

<b>DOCKETED</b>	
<b>Docket Number:</b>	09-AFC-05C
<b>Project Title:</b>	Abengoa Mojave Compliance
<b>TN #:</b>	231216
<b>Document Title:</b>	Mojave Solar Project Annual Compliance Report
<b>Description:</b>	
<b>Filer:</b>	Jose Manuel Bravo Romero
<b>Organization:</b>	Mojave Solar Project
<b>Submitter Role:</b>	Applicant
<b>Submission Date:</b>	12/13/2019 1:57:34 PM
<b>Docketed Date:</b>	12/13/2019

# ABENGOA NORTH AMERICA

**Mojave Solar LLC**

42134 Harper Lake Road  
Hinkley, California 92347

Phone: 760-308-0400



## SUBMITTED ELECTRONICALLY

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**Subject:** 09-AFC-5C  
**Condition Number:** Compliance 7  
**Description:** Mojave Solar Project 2018 Annual Compliance Report  
**Submittal Number:** COMPLIANCE7-02-00  
**Distribution:** Keith Winstead, CEC; Kara Harris, US DOE; Wendy Campbell, CDFW; Ray Bransfield, USFWS; Thomas Dietsch, USFWS

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2/28/2019

Keith Winstead, CPM  
California Energy Commission  
1516 Ninth Street  
Sacramento, California 95814  
[keith.winstead@energy.ca.gov](mailto:keith.winstead@energy.ca.gov)

Dear Mr. Winstead,

The attached Mojave Solar Project 2018 Annual Compliance Report (09-AFC-5C) is submitted for your review as part of the ongoing reporting required by the California Energy Commission's Conditions of Certification for the Mojave Solar Project.

Sincerely,

Jose Manuel Bravo Romero  
Manager  
Compliance, Permitting, Quality and Environment Department

**ABENGOA**  
**NORTH AMERICA**

**ASI Operations LLC****Mojave Solar Project**

42134 Harper Lake Rd  
Hinkley, CA 92347  
(303) 378-7302

[jmanuel.bravo@abengoa.com](mailto:jmanuel.bravo@abengoa.com)

Attachment: 09-AFC-5C Mojave Solar Project 2018 Annual Compliance Report.

**09-AFC-5C Mojave Solar Project  
Annual Compliance Report  
2018 reporting period**



Prepared by:

**Abengoa Solar Industrial Operations LLC.**

for

**Mojave Solar LLC**

42134 Harper Lake Road  
Hinkley, California 92347

## **Appendix E**

### **Air Quality 34**

**2018 Emergency diesel generator and fire diesel pump panel pictures, sulfur content and engine use limitations documents**

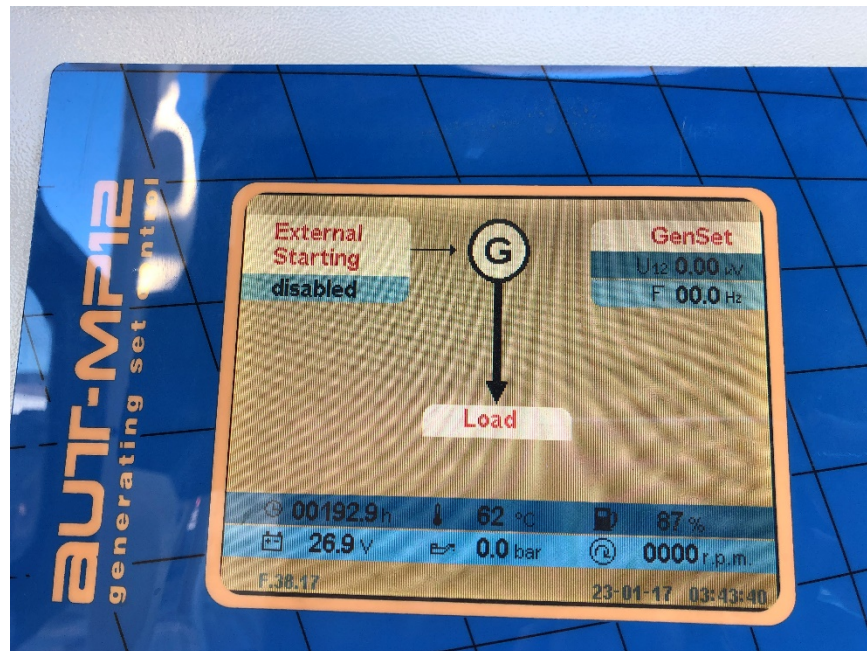
**Mojave Solar Project  
Annual Compliance Report  
San Bernardino County, California**

**2018 Reporting Period**

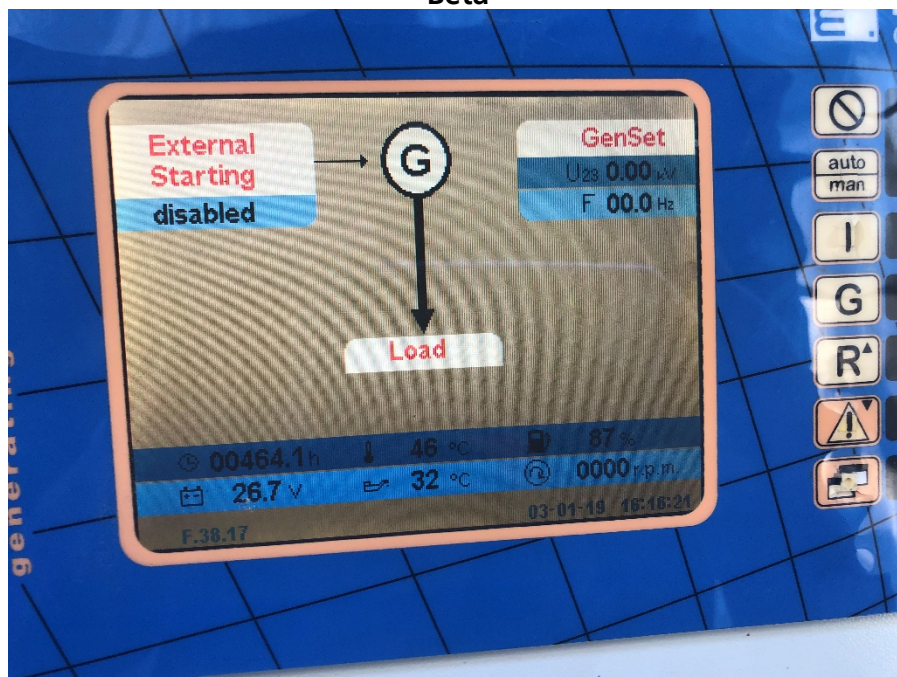


2018 Panel Pictures of Emergency Diesel Generator and Diesel- Driven Fire Pump  
Reference Conditions: AQ34- and AQ-45

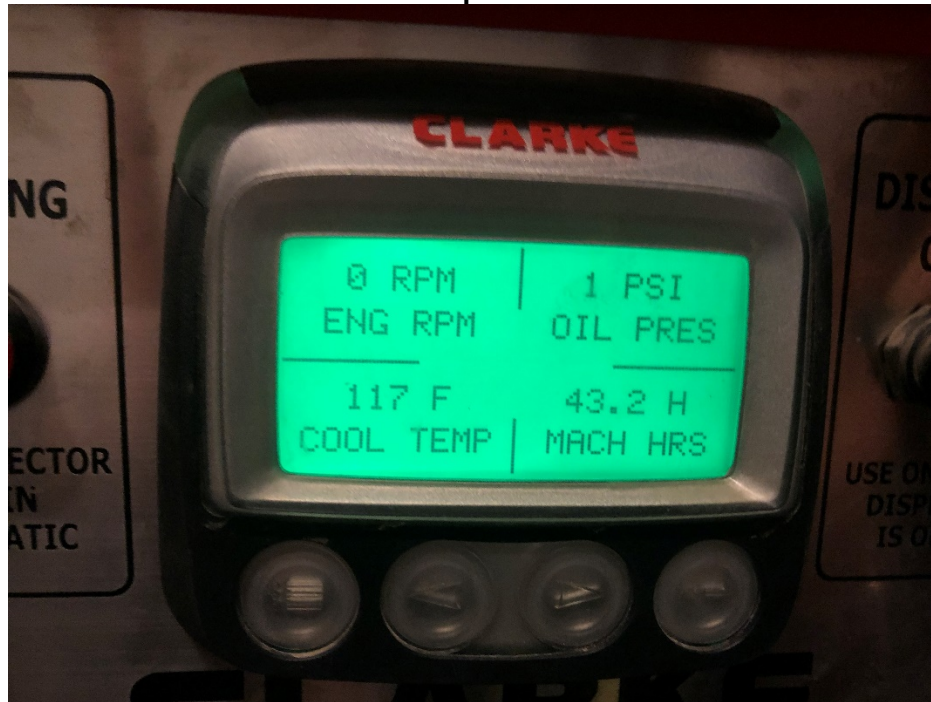
Alpha



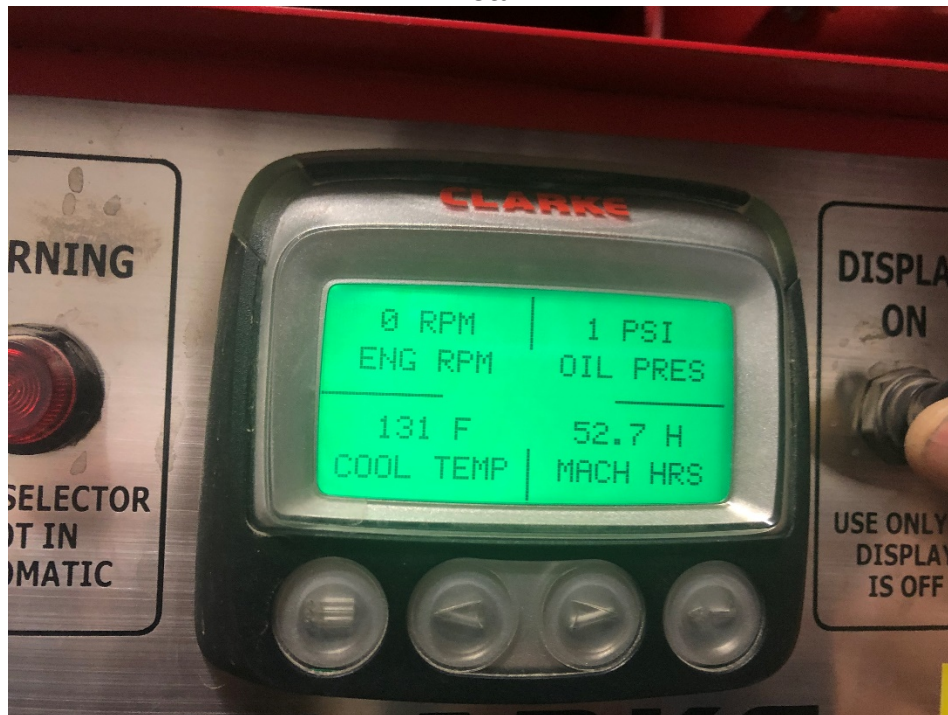
Beta



Alpha



Beta





# ABENGOA

Mojave Solar LLC

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 12/22/18	
Operator: Rico T	*To be completed each time unit is operated	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 150		
Pump Suction Pressure: 20	Pump Discharge pressure: 150	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 165		
Start time: 5:30 PM		
Pump Suction Pressure: 20	Pump Discharge pressure: 148	
Stop time: 5:40 PM	Total time running 10 Min	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input type="checkbox"/> Monthly Fuel Consumption:		
Battery volt Crank 1: 27.2	Battery volt Crank 2: 27.2	Battery Condition: <input checked="" type="checkbox"/>
Starting hour meter: 42.2	Start time: 5:41	
Oil pressure start: 70	Oil Pressure finish: 41	
Pump Suction Pressure: 24	Pump Discharge pressure: 150	
Coolant temperature after 30 minutes running: 176		
Stop time: 6:11 PM	Stop hour meter:	Total time running: 30 Min
Comments:		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

## Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA ☐

Date: 12-22-18

Operator: Michael Hinton

### Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	165	O/C	/	Y N	
2	SG Unit 2 B1-2	160	O/C	/	Y N	
3	Reheaters B1-3	165	O/C	/	Y N	
4	Rack 2 West HTF B1-4	160	O/C	/	Y N	
5	Rack 2 East HTF B1-5	165	O/C	/	Y N	
6	North Steel Pro B1-6	165	O/C	/	Y N	
7	HTF Pumps B1-7	170	O/C	/	Y N	
8	HTF Heaters B1-8	170	O/C	/	Y N	
9	South Steel Pro B1-9	165	O/C	/	Y N	
10	Lube Oil B1-10		O/C	/	Y N	
11	Turbine Hose Stations B1-11		O/C	/	Y N	
12	Turbine Bearings B1-12		O/C	/	Y N	

### Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	165	O/C	/	Y N	
2	Ullage Area B2-2	165	O/C	/	Y N	
3	Ullage Structure B2-11	170	O/C	/	Y N	
4	Rack 1 Middle Area B2-5	170	O/C	/	Y N	
5	Overflow Tanks B2-9	160	O/C	/	Y N	
6	Rack 1 South Area B2-6	165	O/C	/	Y N	
7	Rack 1 West B2-7	165	O/C	/	Y N	
8	Rack 1 North Area B2-4	165	O/C	/	Y N	
9	Over flow AFFF B2-8	165	O/C	/	Y N	
10	Expansion Vessel AFFF B2-3	165	O/C	/	Y N	

### Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	180	O/C	/	Y N	
2	Transformer Main	165	O/C	/	Y N	

### Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	O/C	/	Y N	

### Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	O/C	/	Y N	
2	Offices B4-3	165	O/C	/	Y N	
3	Electrical Room B4-4	170	O/C	/	Y N	

### Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y N	O/C	
2	Bearing 3	Y N	O/C	
3	Bearing 4	Y N	O/C	
4	Bearing 5	Y N	O/C	

### HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y N	O/C	
2	MP-200A	Y N	O/C	
3	MP-200B	Y N	O/C	
4	MP-200C	Y N	O/C	
5	MP-200D	Y N	O/C	

### Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	0	Y N	

### PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C			
2	Maintenance Shop Drive Way #8	O/C			
3	West Side Power Block by VS-3 # 9	O/C			
4	West Side Power Block by VS-1 # 10	O/C			
5	West Side Cooling Tower by VS-4 # 11	O/C			
6	West side Cooling Tower by VS-4 # 12	O/C			
7	N.W. Corner Chemical Storage #1	O/C			
8	N.E. Corner Chemical Storage # 2	O/C			
9	East Side W.T. by Multimedia Filters # 3	O/C			
10	East Side W.T. by Multimedia Filters # 5	O/C			
11	North Side Bldg 10 # 6	O/C			
12	Between MP-444's and Water Treat # 4	O/C			
13	West Side Power Block Valve Shed #4	O/C			

### To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y N	

# ABENGOA

Mojave Solar LLC

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 12/13/18	
Operator: Rico	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: N/A		
Pump Suction Pressure: 24	Pump Discharge pressure:	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 165		
Start time: 5:36 pm		
Pump Suction Pressure: 20	Pump Discharge pressure: 145	
Stop time: 5:46 pm	Total time running 10 min	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input type="checkbox"/>	Monthly Fuel Consumption:	
Battery volt Crank 1: 28	Battery volt Crank 2: 28	Battery Condition: <input checked="" type="checkbox"/>
Starting hour meter: 41.8	Start time: 5:46 pm	
Oil pressure start: 65	Oil Pressure finish: 41	
Pump Suction Pressure: 150	Pump Discharge pressure: 24	
Coolant temperature after 30 minutes running: 176		
Stop time: 6:17 pm	Stop hour meter: 42.2	Total time running: 30 min
Comments:		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

### Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA ☐

Date: 12-14-18

Operator: Michael Hinton

#### Valve Shed # 1 by Condenser

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	165	O/C	✓	Y ✓ N	
2	SG Unit 2 B1-2	165	O/C	✓	Y ✓ N	
3	Reheaters B1-3	160	O/C	✓	Y ✓ N	
4	Rack 2 West HTF B1-4	160	O/C	✓	Y ✓ N	
5	Rack 2 East HTF B1-5	165	O/C	✓	Y ✓ N	
6	North Steel Pro B1-6	165	O/C	✓	Y ✓ N	
7	HTF Pumps B1-7	165	O/C	✓	Y ✓ N	
8	HTF Heaters B1-8	165	O/C	✓	Y ✓ N	
9	South Steel Pro B1-9	165	O/C	✓	Y ✓ N	
10	Lube Oil B1-10	165	O/C	✓	Y ✓ N	
11	Turbine Hose Stations B1-11	LOTO	O/C	✓	Y ✓ N	
12	Turbine Bearings B1-12	LOTO	O/C	✓	Y ✓ N	

#### Valve Shed # 2 by Overflow

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	165	O/C	✓	Y ✓ N	
2	Ullage Area B2-2	165	O/C	✓	Y ✓ N	
3	Ullage Structure B2-11	170	O/C	✓	Y ✓ N	
4	Rack 1 Middle Area B2-5	170	O/C	✓	Y ✓ N	
5	Overflow Tanks B2-9	170	O/C	✓	Y ✓ N	
6	Rack 1 South Area B2-6	165	O/C	✓	Y ✓ N	
7	Rack 1 West B2-7	165	O/C	✓	Y ✓ N	
8	Rack 1 North Area B2-4	165	O/C	✓	Y ✓ N	
9	Over flow AFFF B2-8	165	O/C	✓	Y ✓ N	
10	Expansion Vessel AFFF B2-3	165	O/C	✓	Y ✓ N	

#### Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	O/C	✓	Y ✓ N	
2	Transformer Main	165	O/C	✓	Y ✓ N	

#### Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	O/C	✓	Y ✓ N	

#### Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	O/C	✓	Y ✓ N	
2	Offices B4-3	165	O/C	✓	Y ✓ N	
3	Electrical Room B4-4	165	O/C	✓	Y ✓ N	

#### Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Vlv. Pos.	Comments
1	Bearing 2	Y ✓ N	O/C	
2	Bearing 3	Y ✓ N	O/C	
3	Bearing 4	Y ✓ N	O/C	
4	Bearing 5	Y ✓ N	O/C	

#### HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Vlv. Pos.	Comments
1	MP-201	Y ✓ N	O/C	
2	MP-200A	Y ✓ N	O/C	
3	MP-200B	Y ✓ N	O/C	
4	MP-200C	Y ✓ N	O/C	
5	MP-200D	Y ✓ N	O/C	

#### Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	O	Y ✓ N	

#### PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C			
2	Maintenance Shop Drive Way #8	O/C			
3	West Side Power Block by VS-3 # 9	O/C			
4	West Side Power Block by VS-1 # 10	O/C			
5	West Side Cooling Tower by VS-4 # 11	O/C			
6	West side Cooling Tower by VS 4 # 12	O/C			
7	N.W. Corner Chemical Storage #1	O/C			
8	N.E. Corner Chemical Storage # 2	O/C			
9	East Side W.T. by Multimedia Filters # 3	O/C			
10	East Side W.T. by Multimedia Filters # 5	O/C			
11	North Side Bldg 10 # 6	O/C			
12	Between MP-444's and Water Treat # 4	O/C			
13	West Side Power Block Valve Shed #1	O/C			

#### To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y ✓ N	



# ABENGOA

Mojave Solar LLC

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 12-8-18	
Operator: PHIL TOURGENIS	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 165		
Pump Suction Pressure: 20	Pump Discharge pressure: 165	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 21:50		
Pump Suction Pressure: 20	Pump Discharge pressure: 155	
Stop time: 22:00	Total time running 10 mins	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Monthly Fuel Consumption:		
Battery volt Crank 1: 26.7	Battery volt Crank 2: 26.7	Battery Condition: BATT # FAIL
Starting hour meter: 41.3	Start time: 22:04	
Oil pressure start: 63	Oil Pressure finish: 41	
Pump Suction Pressure: 20	Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running: 174		
Stop time: 22:34	Stop hour meter: 41.8	Total time running: 30 mins
Comments:		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.		
Note: Fuel consumption 27 gal/ h approximately.		
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]		

### Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA ☐

Date: 12-9-18

Operator E. S. by

#### Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	✓ O/C	✓	Y ✓ N -	
2	SG Unit 2 B1-2	160	✓ O/C	✓	Y ✓ N -	
3	Reheaters B1-3	160	✓ O/C	✓	Y ✓ N -	
4	Rack 2 West HTF B1-4	160	✓ O/C	✓	Y ✓ N -	
5	Rack 2 East HTF B1-5	160	✓ O/C	✓	Y ✓ N -	
6	North Steel Pro B1-6	160	✓ O/C	✓	Y ✓ N -	
7	HTF Pumps B1-7	160	✓ O/C	✓	Y ✓ N -	
8	HTF Heaters B1-8	160	✓ O/C	✓	Y ✓ N -	
9	South Steel Pro B1-9	160	✓ O/C	✓	Y ✓ N -	
10	Lube Oil B1-10	0	✓ O/C	✓	Y ✓ N -	10 to
11	Turbine Hose Stations B1-11	0	✓ O/C	✓	Y ✓ N -	10 to
12	Turbine Bearings B1-12	160	✓ O/C	✓	Y ✓ N -	10 to

#### Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	✓ O/C	✓	Y ✓ N -	
2	Ullage Area B2-2	170	✓ O/C	✓	Y ✓ N -	
3	Ullage Structure B2-11	165	✓ O/C	✓	Y ✓ N -	
4	Rack 1 Middle Area B2-5	165	✓ O/C	✓	Y ✓ N -	
5	Overflow Tanks B2-9	160	✓ O/C	✓	Y ✓ N -	
6	Rack 1 South Area B2-6	165	✓ O/C	✓	Y ✓ N -	
7	Rack 1 West B2-7	160	✓ O/C	✓	Y ✓ N -	
8	Rack 1 North Area B2-4	160	✓ O/C	✓	Y ✓ N -	
9	Over flow AFFF B2-8	170	✓ O/C	✓	Y ✓ N -	
10	Expansion Vessel AFFF B2-3	165	✓ O/C	✓	Y ✓ N -	

#### Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	✓ O/C	✓	Y ✓ N -	
2	Transformer Main	160	✓ O/C	✓	Y ✓ N -	

#### Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	155	✓ O/C	✓	Y ✓ N -	

#### Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	✓ O/C	✓	Y ✓ N -	
2	Offices B4-3	160	✓ O/C	✓	Y ✓ N -	
3	Electrical Room B4-4	155	✓ O/C	✓	Y ✓ N -	

#### Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y ✓ N -	✓ O/C	
2	Bearing 3	Y ✓ N -	✓ O/C	
3	Bearing 4	Y ✓ N -	✓ O/C	
4	Bearing 5	Y ✓ N -	✓ O/C	

#### HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y ✓ N -	✓ O/C	
2	MP-200A	Y ✓ N -	✓ O/C	
3	MP-200B	Y ✓ N -	✓ O/C	
4	MP-200C	Y ✓ N -	✓ O/C	
5	MP-200D	Y ✓ N -	✓ O/C	

#### Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	170	✓	Y ✓ N -	

#### PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	✓ O/C	X		
2	Maintenance Shop Drive Way #8	✓ O/C	X		
3	West Side Power Block by VS-3 # 9	✓ O/C	X		
4	West Side Power Block by VS-1 # 10	✓ O/C	X		
5	West Side Cooling Tower by VS-4 # 11	✓ O/C	X		
6	West side Cooling Tower by VS-4 # 12	✓ O/C	X		
7	N.W. Corner Chemical Storage #1	✓ O/C	X		
8	N.E. Corner Chemical Storage # 2	✓ O/C	X		
9	East Side W.T. by Multimedia Filters # 3	✓ O/C	X		
10	East Side W.T. by Multimedia Filters # 5	✓ O/C	X		
11	North Side Bldg 10 # 6	O/C	X		
12	Between MP-444's and Water Treat # 4	O/C ✓	X		
13	West Side Power Block Valve Shed #1	O/C	X		

#### To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y - N X	



# ABENGOA

Mojave Solar LLC

## Fire Pump Weekly Test Log

General Information	
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 12-2-18
Operator: PHIL TOURGELIS	*To be completed each time unit is operated.
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>	
Jockey Electric Pump	
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>	
Check the jockey pump on pressure drop. Start up pressure: 155	
Discharge Pressure: 165	
Pump Suction Pressure: 20	Pump Discharge pressure: 165
Comments:	
Electric Pump	
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>	
Start the pump on pressure drop. Start up pressure: 145	
Start time: 02:25	
Pump Suction Pressure: 20	Pump Discharge pressure: 155
Stop time: 02:35	Total time running 10 MINS
Comments:	
Diesel Pump	
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>	
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Monthly Fuel Consumption:
Battery volt Crank 1: 26.7 Battery volt Crank 2: 26.7	Battery Condition: BATT #1 BAD
Starting hour meter: 40.9	Start time: 02:38
Oil pressure start: 65 PSI	Oil Pressure finish:
Pump Suction Pressure: 20	Pump Discharge pressure: 155
Coolant temperature after 30 minutes running: 174	
Stop time: 03:08	Stop hour meter: 41.3
Total time running: 30 mins	
Comments: BATT #1 FAIL	
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).	
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>	

### Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐

Date: 12-2-18

Operator: PAUL TOLBERG'S

#### Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	—	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	—	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	—	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	LOTO

#### Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

#### Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

#### Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

#### Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

#### Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

#### HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

#### Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

#### PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	✓	12-2-18	
2	Maintenance Shop Drive Way #8	O/C	✓	12-2-18	
3	West Side Power Block by VS-3 # 9	O/C	✓	12-2-18	
4	West Side Power Block by VS-1 # 10	O/C	✓	12-2-18	
5	West Side Cooling Tower by VS-4 # 11	O/C	✓	12-2-18	
6	West side Cooling Tower by VS-4 # 12	O/C	✓	12-2-18	
7	N.W. Corner Chemical Storage #1	O/C	✓	12-2-18	
8	N.E. Corner Chemical Storage # 2	O/C	✓	12-2-18	
9	East Side W.T. by Multimedia Filters # 3	O/C	✓	12-2-18	
10	East Side W.T. by Multimedia Filters # 5	O/C	✓	12-2-18	
11	North Side Bldg 10 # 6	O/C	✓	12-2-18	
12	Between MP-444's and Water Treat # 4	O/C	X	—	
13	West Side Power Block Valve Shed #1	O/C	N/A	—	

#### To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

# ABENGOA

Mojave Solar LLC

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 11-25-18	
Operator: Efrin, marks	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 153 psi		
Discharge Pressure: 162 psi		
Pump Suction Pressure: - Pump Discharge pressure: -		
Comments: no gauges		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 25 psi		
Start time: 1852		
Pump Suction Pressure: 20 psi Pump Discharge pressure: 150 psi		
Stop time: 1853 Total time running 7 min		
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Monthly Fuel Consumption: -		
Battery volt Crank 1: 27 ✓ Battery volt Crank 2: 27 ✓		Battery Condition: Good
Starting hour meter: 40.4		Start time: 1904
Oil pressure start: 1 psi		Oil Pressure finish: 41 psi
Pump Suction Pressure: 20 psi Pump Discharge pressure: 150 psi		
Coolant temperature after 30 minutes running: 176 F		
Stop time: 1934 Stop hour meter: 40.9 Total time running: 30 min		
Comments: Battery 7 failure		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.		
Note: Fuel consumption 27 gal/ h approximately.		
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]		

## Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐ Date: 11-25-18 Operator: PHIL TOUGHER'S

### Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	—	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	—	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	—	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

### Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

### Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

### Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

### Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

### Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

### HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

### Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	170	O	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

### PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	N	11-3-18	
2	Maintenance Shop Drive Way #8	O/C	N	11-3-18	
3	West Side Power Block by VS-3 # 9	O/C	N	11-3-18	
4	West Side Power Block by VS-1 # 10	O/C	N	11-3-18	
5	West Side Cooling Tower by VS-4 # 11	O/C	N	11-3-18	
6	West side Cooling Tower by VS-4 # 12	O/C	N	11-3-18	
7	N.W. Corner Chemical Storage #1	O/C	N	11-3-18	
8	N.E. Corner Chemical Storage # 2	O/C	N	11-3-18	
9	East Side W.T. by Multimedia Filters # 3	O/C	N	11-3-18	
10	East Side W.T. by Multimedia Filters # 5	O/C	N	11-3-18	
11	North Side Bldg 10 # 6	O/C	N	11-3-18	
12	Between MP-444's and Water Treat # 4	O/C	N	11-3-18	
13	West Side Power Block Valve Shed #1	O/C	N	11-3-18	

### To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 11-17-18	
Operator: E. P. in Mark	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155 PSI		
Discharge Pressure: 165 PSI		
Pump Suction Pressure: - Pump Discharge pressure: -		
Comments: no gauges for suction/discharge pressure		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145 PSI		
Start time: 1911		
Pump Suction Pressure: 20 PSI Pump Discharge pressure: 150 PSI		
Stop time: 1912 Total time running 1 min		
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Monthly Fuel Consumption:		
Battery volt Crank 1: 27 ✓ Battery volt Crank 2: 27 ✓		Battery Condition: Good
Starting hour meter: 40.0		Start time: 1916
Oil pressure start: 0 PSI		Oil Pressure finish: 41 PSI
Pump Suction Pressure: 20 PSI Pump Discharge pressure: 150 PSI		
Coolant temperature after 30 minutes running: 176		
Stop time: 1946 Stop hour meter: 40.4 Total time running: 30 min		
Comments: Battery 1 failure alarm, swapped for Battery #2		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		



### Automated Fire Systems Inspection Checklist

Mojave Solar Project

Plant: ALPHA ☒ BETA: ☐ Date: 11-17-18 Operator: PHIL TOURGELIS

#### Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	—	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	—	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	VALVED OUT
12	Turbine Bearings B1-12	—	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	VALVED OUT

#### Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

#### Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	O/C	165	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	165	O/C	165	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

#### Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side		O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

#### Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

#### Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

#### HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

#### Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	O	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

#### PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	N	11/25/18	
2	Maintenance Shop Drive Way #8	O/C	N		
3	West Side Power Block by VS-3 # 9	O/C	N		
4	West Side Power Block by VS-1 # 10	O/C	N		
5	West Side Cooling Tower by VS-4 # 11	O/C	N		
6	West side Cooling Tower by VS-4 # 12	O/C	N		
7	N.W. Corner Chemical Storage #1	O/C	N		
8	N.E. Corner Chemical Storage # 2	O/C	N		
9	East Side W.T. by Multimedia Filters # 3	O/C	N		
10	East Side W.T. by Multimedia Filters # 5	O/C	N		
11	North Side Bldg 10 # 6	O/C	N		
12	Between MP-444's and Water Treat # 4	O/C	N		
13	West Side Power Block Valve Shed #1	O/C	N		

#### To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

# ABENGOA

Mojave Solar LLC

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 11/11/18	
Operator: Rico	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 20		
Pump Suction Pressure: 155 25		Pump Discharge pressure: 25 150
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 164		
Start time: 18:36 pm		
Pump Suction Pressure: 25		Pump Discharge pressure: 150
Stop time: 18:46 pm		Total time running 10 Min
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input type="checkbox"/> Monthly Fuel Consumption:		
Battery volt Crank 1: 27 Battery volt Crank 2: 27		Battery Condition: <input checked="" type="checkbox"/>
Starting hour meter: 39.6		Start time: 5:47
Oil pressure start: 60 psi		Oil Pressure finish: 41
Pump Suction Pressure: 150		Pump Discharge pressure: 25
Coolant temperature after 30 minutes running: 181°F		
Stop time: 6:17 pm		Stop hour meter: 40.0 Total time running: 30 min
Comments: Altern battery failure		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

### Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐

Date: 11/11/18

Operator: Rico T

#### Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	165	✓	✓	Y ✓ N -	
2	SG Unit 2 B1-2	165	✓	✓	Y ✓ N -	
3	Reheaters B1-3	172	✓	✓	Y ✓ N -	
4	Rack 2 West HTF B1-4	170	✓	✓	Y ✓ N -	
5	Rack 2 East HTF B1-5	170	✓	✓	Y ✓ N -	
6	North Steel Pro B1-6	168	✓	✓	Y ✓ N -	
7	HTF Pumps B1-7	165	✓	✓	Y ✓ N -	
8	HTF Heaters B1-8	160	✓	✓	Y ✓ N -	
9	South Steel Pro B1-9	165	✓	✓	Y ✓ N -	
10	Lube Oil B1-10	170	O/C	✓	Y ✓ N -	
11	Turbine Hose Stations B1-11	175	O/C	✓	Y ✓ N -	
12	Turbine Bearings B1-12	170	O/C	✓	Y ✓ N -	

#### Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	165	✓	✓	Y ✓ N -	
2	Ullage Area B2-2	165	✓	✓	Y ✓ N -	
3	Ullage Structure B2-11	160	✓	✓	Y ✓ N -	
4	Rack 1 Middle Area B2-5	170	✓	✓	Y ✓ N -	
5	Overflow Tanks B2-9	172	✓	✓	Y ✓ N -	
6	Rack 1 South Area B2-6	170	✓	✓	Y ✓ N -	
7	Rack 1 West B2-7	165	✓	✓	Y ✓ N -	
8	Rack 1 North Area B2-4	175	✓	✓	Y ✓ N -	
9	Over flow AFFF B2-8	170	✓	✓	Y ✓ N -	
10	Expansion Vessel AFFF B2-3	165	✓	✓	Y ✓ N -	

#### Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	✓	✓	Y ✓ N -	
2	Transformer Main	170	✓	✓	Y ✓ N -	

#### Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	170	✓	✓	Y ✓ N -	

#### Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	✓	✓	Y ✓ N -	
2	Offices B4-3	160	✓	✓	Y ✓ N -	
3	Electrical Room B4-4	165	✓	✓	Y ✓ N -	

#### Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y ✓ N -	O/C	
2	Bearing 3	Y ✓ N -	O/C	
3	Bearing 4	Y ✓ N -	O/C	
4	Bearing 5	Y ✓ N -	O/C	

#### HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y ✓ N -	O/C	
2	MP-200A	Y ✓ N -	O/C	
3	MP-200B	Y ✓ N -	O/C	
4	MP-200C	Y ✓ N -	O/C	
5	MP-200D	Y ✓ N -	O/C	

#### Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	0	Y ✓ N -	

#### PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	✓	11-3		
2	Maintenance Shop Drive Way #8	✓	11-3		
3	West Side Power Block by VS-3 # 9	✓	11-3		
4	West Side Power Block by VS-1 # 10	✓	11-3		
5	West Side Cooling Tower by VS-4 # 11	✓	11-3		
6	West side Cooling Tower by VS-4 # 12	✓	11-3		
7	N.W. Corner Chemical Storage #1	✓	11-3		
8	N.E. Corner Chemical Storage # 2	✓	11-3		
9	East Side W.T. by Multimedia Filters # 3	✓	11-3		
10	East Side W.T. by Multimedia Filters # 5	✓	11-3		
11	North Side Bldg 10 # 6	✓	11-3		
12	Between MP-444's and Water Treat # 4	✓			
13	West Side Power Block Valve Shed #1	✓			

#### To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y - N	



## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 11-3-18		
Operator: Mike Hinton	*To be completed each time unit is operated		
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: 155			
Discharge Pressure: 160			
Pump Suction Pressure: N/A		Pump Discharge pressure: 160	
Comments:			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: 145			
Start time: 1915			
Pump Suction Pressure: 10		Pump Discharge pressure: 165	
Stop time: 1925		Total time running 10 mins	
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Monthly Fuel Consumption:	
Battery volt Crank 1: 20	Battery volt Crank 2: 27.3	Battery Condition: Normal	
Starting hour meter: 39.2		Start time: 1925	
Oil pressure start: 57		Oil Pressure finish: 39	
Pump Suction Pressure: 4.5		Pump Discharge pressure: 160	
Coolant temperature after 30 minutes running: 185			
Stop time: 1956		Stop hour meter: 39.6	
Total time running: 31 mins			
Comments: Battery #1 failure, Charge air cooler temp out of range. Notification in. Packing drip drain line clogged ← Notification in.			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.			
Note: Fuel consumption 27 gal/h approximately.			
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]			

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐

Date: 11-3-18

Operator Hinton

## Valve Shed # 1 by Condenser

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	165	O/C	✓	Y / N	
2	SG Unit 2 B1-2	165	O/C	✓	Y / N	
3	Reheaters B1-3	165	O/C	✓	Y / N	
4	Rack 2 West HTF B1-4	160	O/C	✓	Y / N	
5	Rack 2 East HTF B1-5	165	O/C	✓	Y / N	
6	North Steel Pro B1-6	165	O/C	✓	Y / N	
7	HTF Pumps B1-7	160	O/C	✓	Y / N	
8	HTF Heaters B1-8	160	O/C	✓	Y / N	
9	South Steel Pro B1-9	165	O/C	✓	Y / N	
10	Lube Oil B1-10	165	O/C	✓	Y / N	
11	Turbine Hose Stations B1-11	165	O/C	✓	Y / N	
12	Turbine Bearings B1-12	165	O/C	✓	Y / N	

## Valve Shed # 2 by Overflow

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	165	O/C	✓	Y / N	
2	Ullage Area B2-2	165	O/C	✓	Y / N	
3	Ullage Structure B2-11	165	O/C	✓	Y / N	
4	Rack 1 Middle Area B2-5	165	O/C	✓	Y / N	
5	Overflow Tanks B2-9	165	O/C	✓	Y / N	
6	Rack 1 South Area B2-6	165	O/C	✓	Y / N	
7	Rack 1 West B2-7	165	O/C	✓	Y / N	
8	Rack 1 North Area B2-4	165	O/C	✓	Y / N	
9	Over flow AFFF B2-8	165	O/C	✓	Y / N	
10	Expansion Vessel AFFF B2-3	165	O/C	✓	Y / N	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	O/C	✓	Y / N	
2	Transformer Main	165	O/C	✓	Y / N	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	O/C	✓	Y / N	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	O/C	✓	Y / N	
2	Offices B4-3	165	O/C	✓	Y / N	
3	Electrical Room B4-4	160	O/C	✓	Y / N	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Vlv. Pos.	Comments
1	Bearing 2	Y / N	O/C	
2	Bearing 3	Y / N	O/C	
3	Bearing 4	Y / N	O/C	
4	Bearing 5	Y / N	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Vlv. Pos.	Comments
1	MP-201	Y / N	O/C	
2	MP-200A	Y / N	O/C	
3	MP-200B	Y / N	O/C	
4	MP-200C	Y / N	O/C	
5	MP-200D	Y / N	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge			Y - N	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	✓	11-3	
2	Maintenance Shop Drive Way #8	O/C	✓	11-3	
3	West Side Power Block by VS-3 # 9	O/C	✓		
4	West Side Power Block by VS-1 # 10	O/C	✓		
5	West Side Cooling Tower by VS-4 # 11	O/C	✓		
6	West side Cooling Tower by VS-4 # 12	O/C	✓		
7	N.W. Corner Chemical Storage #1	O/C	✓		
8	N.E. Corner Chemical Storage # 2	O/C	✓		
9	East Side W.T. by Multimedia Filters # 3	O/C	✓		
10	East Side W.T. by Multimedia Filters # 5	O/C	✓		
11	North Side Bldg 10 # 6	O/C	✓		
12	Between MP-444's and Water Treat # 4	O/C	No		
13	West Side Power Block Valve Shed #1	O/C	N/A		

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y - N	

## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 10-27-18		
Operator: Michael Hinton		*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: 155			
Discharge Pressure: 165			
Pump Suction Pressure: N/A		Pump Discharge pressure: 169	
Comments:			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: 145			
Start time: 11750			
Pump Suction Pressure: 10		Pump Discharge pressure: 160	
Stop time: 1800		Total time running 10 mins	
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Monthly Fuel Consumption:	
Battery volt Crank 1: 26.7	Battery volt Crank 2: 26.7	Battery Condition: Normal	
Starting hour meter: 38.9		Start time: 1805	
Oil pressure start: 60		Oil Pressure finish: 42	
Pump Suction Pressure: 20		Pump Discharge pressure: 160	
Coolant temperature after 30 minutes running: 189			
Stop time: 1835	Stop hour meter: 39.2	Total time running: 1835 30 mins	
Comments: High temp air charge alarm			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>			

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐ Date: 10-27-18 Operator: Rico

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	155	OK	✓	Y ✓ N	
2	SG Unit 2 B1-2	160	OK	✓	Y ✓ N	
3	Reheaters B1-3	160	OK	✓	Y ✓ N	
4	Rack 2 West HTF B1-4	155	OK	✓	Y ✓ N	
5	Rack 2 East HTF B1-5	160	OK	✓	Y ✓ N	
6	North Steel Pro B1-6	160	OK	✓	Y ✓ N	
7	HTF Pumps B1-7	160	OK	✓	Y ✓ N	
8	HTF Heaters B1-8	158	OK	✓	Y ✓ N	
9	South Steel Pro B1-9	160	OK	✓	Y ✓ N	
10	Lube Oil B1-10	160	OK	✓	Y ✓ N	
11	Turbine Hose Stations B1-11	160	OK	✓	Y ✓ N	
12	Turbine Bearings B1-12	160	OK	✓	Y ✓ N	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	165	OK	✓	Y ✓ N	
2	Ullage Area B2-2	162	OK	✓	Y ✓ N	
3	Ullage Structure B2-11	165	OK	✓	Y ✓ N	
4	Rack 1 Middle Area B2-5	160	OK	✓	Y ✓ N	
5	Overflow Tanks B2-9	160	OK	✓	Y ✓ N	
6	Rack 1 South Area B2-6	160	OK	✓	Y ✓ N	
7	Rack 1 West B2-7	160	OK	✓	Y ✓ N	
8	Rack 1 North Area B2-4	165	OK	✓	Y ✓ N	
9	Overflow AFFF B2-8	160	OK	✓	Y ✓ N	
10	Expansion Vessel AFFF B2-3	160	OK	✓	Y ✓ N	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	OK	✓	Y ✓ N	
2	Transformer Main	155	OK	✓	Y ✓ N	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side		OK		Y N	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	OK	✓	Y ✓ N	
2	Offices B4-3	160	OK	✓	Y ✓ N	
3	Electrical Room B4-4	160	OK	✓	Y ✓ N	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y ✓ N	OK	
2	Bearing 3	Y ✓ N	OK	
3	Bearing 4	Y ✓ N	OK	
4	Bearing 5	Y ✓ N	OK	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y ✓ N	OK	
2	MP-200A	Y ✓ N	OK	
3	MP-200B	Y ✓ N	OK	
4	MP-200C	Y ✓ N	OK	
5	MP-200D	Y ✓ N	OK	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	170		Y N	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	OK			
2	Maintenance Shop Drive Way #8	OK			
3	West Side Power Block by VS-3 # 9	OK			
4	West Side Power Block by VS-1 # 10	OK			
5	West Side Cooling Tower by VS-4 # 11	OK			
6	West side Cooling Tower by VS-4 # 12	OK			
7	N.W. Corner Chemical Storage #1	OK			
8	N.E. Corner Chemical Storage # 2	OK			
9	East Side W.T. by Multimedia Filters # 3	OK			
10	East Side W.T. by Multimedia Filters # 5	OK			
11	North Side Bldg 10 # 6	OK			
12	Between MP-444's and Water Treat # 4	OK			
13	West Side Power Block Valve Shed #1	OK			

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y N	



## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 10/18/18		
Operator: Rico	*To be completed each time unit is operated		
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: 155			
Discharge Pressure: 20			
Pump Suction Pressure: 165	Pump Discharge pressure: 165		
Comments:			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: 164			
Start time: 6:20 pm			
Pump Suction Pressure: 20	Pump Discharge pressure: 155		
Stop time: 6:30 pm	Total time running 10 min		
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input type="checkbox"/> No <input type="checkbox"/>	Monthly Fuel Consumption:		
Battery volt Crank 1: 27 Battery volt Crank 2: 27	Battery Condition: good		
Starting hour meter: 38.7	Start time: 6:30 pm		
Oil pressure start: 64	Oil Pressure finish: 41		
Pump Suction Pressure: 25	Pump Discharge pressure: 155		
Coolant temperature after 30 minutes running: 185			
Stop time: 7:00 pm	Stop hour meter: <del>38.8</del> 38.9	Total time running: 30 mins	
Comments:			
Air filter flow Alarm			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. (Title 17 CCR 93115.6(a)(4))</p>			

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA ☐

Date: 10-20-18

Operator: Michael Hinton

## Valve Shed # 1 by Condenser

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Vlv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Vlv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge			Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C			
2	Maintenance Shop Drive Way #8	O/C			
3	West Side Power Block by VS-3 # 9	O/C			
4	West Side Power Block by VS-1 # 10	O/C			
5	West Side Cooling Tower by VS-4 # 11	O/C			
6	West side Cooling Tower by VS-4 # 12	O/C			
7	N.W. Corner Chemical Storage #1	O/C			
8	N.E. Corner Chemical Storage # 2	O/C			
9	East Side W.T. by Multimedia Filters # 3	O/C			
10	East Side W.T. by Multimedia Filters # 5	O/C			
11	North Side Bldg 10 # 6	O/C			
12	Between MP-444's and Water Treat # 4	O/C			
13	West Side Power Block Valve Shed #1	O/C			

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Fire Pump Weekly Test Log

### General Information

Plant: Alpha ☒ Beta ☐ Date: 10-14-18  
 Operator: PAUL TOURBELLIS  
 Reason for running pumps: Weekly test ☒ Maintenance ☐ Emergency ☐  
 \*To be completed each time unit is operated.

### Jockey Electric Pump

Pre-start Inspection: Electrical Feed ☒ Mechanical ☒ Valves ☒  
 Check the jockey pump on pressure drop. Start up pressure: 155  
 Discharge Pressure: 165  
 Pump Suction Pressure: 20 Pump Discharge pressure: 165  
 Comments:

### Electric Pump

Pre-start Inspection: Electrical Feed ☒ Mechanical ☒ Valves ☒  
 Start the pump on pressure drop. Start up pressure: 145  
 Start time: 15:20  
 Pump Suction Pressure: 20 Pump Discharge pressure: 155  
 Stop time: 15:30 Total time running 10 mins  
 Comments:

### Diesel Pump

Pre-start Inspection: Coolant ☒ Oil ☒ Mechanical ☒ Valves ☒ Water Jacket Heater ☒  
 Fuel level > 2/3: Yes ☒ No ☐ Monthly Fuel Consumption:  
 Battery volt Crank 1: 26.7 Battery volt Crank 2: 26.7 Battery Condition: GOOD  
 Starting hour meter: 38.3 Start time: 14:47 Start up pressure: 135  
 Oil pressure start: 60 Oil Pressure finish: 41  
 Pump Suction Pressure: 20 Pump Discharge pressure: 180  
 Coolant temperature after 30 minutes running: 176  
 Stop time: 15:17 Stop hour meter: 38.7 Total time running: 30 mins  
 Comments: BATT #1 FAIL TO START

Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).

This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25- "Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.

**Note: Fuel consumption 27 gal/ h approximately.**

There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐ Date: 10-12-18 Operator: EFra

Valve Shed # 1 by Condenser						
No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	155	✓ O/C	✓	Y ✓ N	
2	SG Unit 2 B1-2	155	✓ O/C	✓	Y ✓ N	
3	Reheaters B1-3	155	✓ O/C	✓	Y ✓ N	
4	Rack 2 West HTF B1-4	160	✓ O/C	✓	Y ✓ N	
5	Rack 2 East HTF B1-5	155	✓ O/C	✓	Y ✓ N	
6	North Steel Pro B1-6	160	✓ O/C	✓	Y ✓ N	
7	HTF Pumps B1-7	155	✓ O/C	✓	Y ✓ N	
8	HTF Heaters B1-8	170	✓ O/C	✓	Y ✓ N	
9	South Steel Pro B1-9	155	✓ O/C	✓	Y ✓ N	
10	Lube Oil B1-10	160	✓ O/C	✓	Y ✓ N	
11	Turbine Hose Stations B1-11	160	✓ O/C	✓	Y ✓ N	
12	Turbine Bearings B1-12	155	✓ O/C	✓	Y ✓ N	

Valve Shed # 2 by Overflow						
No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	170	✓ O/C	✓	Y ✓ N	
2	Ullage Area B2-2	170	✓ O/C	✓	Y ✓ N	
3	Ullage Structure B2-11	170	✓ O/C	✓	Y ✓ N	
4	Rack 1 Middle Area B2-5	170	✓ O/C	✓	Y ✓ N	
5	Overflow Tanks B2-9	170	✓ O/C	✓	Y ✓ N	
6	Rack 1 South Area B2-6	165	✓ O/C	✓	Y ✓ N	
7	Rack 1 West B2-7	160	✓ O/C	✓	Y ✓ N	
8	Rack 1 North Area B2-4	160	✓ O/C	✓	Y ✓ N	
9	Overflow AFFF B2-8	170	✓ O/C	✓	Y ✓ N	
10	Expansion Vessel AFFF B2-3	170	✓ O/C	✓	Y ✓ N	

Valve Shed # 3 by Bldg 35 GE Electrical Bldg						
No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	✓ O/C	✓	Y ✓ N	
2	Transformer Main	155	✓ O/C	✓	Y ✓ N	

Valve Shed # 4 by Cooling Tower West Side						
No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	✓ O/C	✓	Y ✓ N	

Valve Shed # 5 by Control Bldg 10						
No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	✓ O/C	✓	Y ✓ N	
2	Offices B4-3	160	✓ O/C	✓	Y ✓ N	
3	Electrical Room B4-4	160	✓ O/C	✓	Y ✓ N	

Turbine Sprinkler Valves (These are to be locked in the open position)						
No.	System	Locked	Vlv. Pos.			Comments
1	Bearing 2	Y ✓ N	✓ O/C			
2	Bearing 3	Y ✓ N	✓ O/C			
3	Bearing 4	Y ✓ N	✓ O/C			
4	Bearing 5	Y ✓ N	✓ O/C			

HTF Deluge System Valves (To be Locked in the Open Position)						
No.	System	Locked	Vlv. Pos.			Comments
1	MP-201	Y ✓ N	✓ O/C			
2	MP-200A	Y ✓ N	✓ O/C			
3	MP-200B	Y ✓ N	✓ O/C			
4	MP-200C	Y ✓ N	✓ O/C			
5	MP-200D	Y ✓ N	✓ O/C			

Fire Pump House Deluge System						
No.	System	PSI	O/C	Locked		Comments
1	Fire Pump House Deluge	170	✓	Y ✓ N		

PIV Checks						
No.	System	Position	Cycled	Date Cycled		Comments
1	Maintenance Shop Drive Way #7	Y O/C	X	10-5		
2	Maintenance Shop Drive Way #8	Y O/C	X	10-5		
3	West Side Power Block by VS-3 # 9	Y O/C	X	10-5		
4	West Side Power Block by VS-1 # 10	Y O/C	X	10-5		
5	West Side Cooling Tower by VS-4 # 11	Y O/C	X	10-5		
6	West side Cooling Tower by VS-4 # 12	Y O/C	X	10-5		
7	N.W. Corner Chemical Storage #1	Y O/C	X	10-5		
8	N.E. Corner Chemical Storage # 2	Y O/C	X	10-5		
9	East Side W.T. by Multimedia Filters # 3	Y O/C	X	10-5		
10	East Side W.T. by Multimedia Filters # 5	Y O/C	X	10-5		
11	North Side Bldg 10 # 6	Y O/C	X	10-5		
12	Between MP-444's and Water Treat # 4	Y O/C	X	10-5		
13	West Side Power Block Valve Shed #1	Y O/C	X	10-5		

To Be Cycled First Saturday of Every Month						
No.	System	Debris				Comments / Actions
1	Transformer Yard Refuse Check	Y N				



## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 10-5-18	
Operator: Phil TOURGELIS	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 165		
Pump Suction Pressure: 20	Pump Discharge pressure: 165	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 21:50		
Pump Suction Pressure: 20	Pump Discharge pressure: 160	
Stop time: 22:00	Total time running 10 mins	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 50%	Monthly Fuel Consumption:	
Battery volt Crank 1: 26.7 Battery volt Crank 2: 26.5	Battery Condition: Good	
Starting hour meter: 37.9	Start time: 22:05 Start up pressure: 135	
Oil pressure start: 57 PSI	Oil Pressure finish: 41	
Pump Suction Pressure: 20	Pump Discharge pressure: 150	
Coolant temperature after 30 minutes running: 176		
Stop time: 22:35	Stop hour meter: 38.3	Total time running: 30 mins
Comments:		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25- "Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p><b>Note: Fuel consumption 27 gal/ h approximately.</b></p> <p>there is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐ Date: 10-5-18 Operator: PHIL TOULGENS

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	170	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	10-3-18	10-5-18	
2	Maintenance Shop Drive Way #8	O/C	✓		
3	West Side Power Block by VS-3 # 9	O/C			
4	West Side Power Block by VS-1 # 10	O/C			
5	West Side Cooling Tower by VS-4 # 11	O/C			
6	West side Cooling Tower by VS-4 # 12	O/C			
7	N.W. Corner Chemical Storage #1	O/C			
8	N.E. Corner Chemical Storage # 2	O/C			
9	East Side W.T. by Multimedia Filters # 3	O/C			
10	East Side W.T. by Multimedia Filters # 5	O/C			
11	North Side Bldg 10 # 6	O/C			
12	Between MP-444's and Water Treat # 4	O/C			
13	West Side Power Block Valve Shed #1	O/C		10-5-18	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Fire Pump Weekly Test Log

### General Information

Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 9-29-18
Operator: Phil TORRES	<b>*To be completed each time unit is operated.</b>
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>	

### Jockey Electric Pump

Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>
Check the jockey pump on pressure drop. Start up pressure: 155
Discharge Pressure: 165
Pump Suction Pressure: 20 Pump Discharge pressure: 165
Comments:

### Electric Pump

Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>
Start the pump on pressure drop. Start up pressure: 145
Start time: 23:25
Pump Suction Pressure: 20 Pump Discharge pressure: 160
Stop time: 23:35 Total time running 10 mins
Comments:

### Diesel Pump

Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 50% Monthly Fuel Consumption:
Battery volt Crank 1: 26.7 Battery volt Crank 2: 26.7 Battery Condition: GOOD
Starting hour meter: 37.7 Start time: 23:43 Start up pressure: 135
Oil pressure start: 58 Oil Pressure finish: 45
Pump Suction Pressure: 20 Pump Discharge pressure: 150
Coolant temperature after 30 minutes running: 195
Stop time: 23:56 Stop hour meter: 37.9 Total time running: 13 mins
Comments: FUEL LEVEL 50% BATTERY #1 FAILURE. CHARGE AIR COOLER TEMP. HIGH

Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).

This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.

**Note: Fuel consumption 27 gal/ h approximately.**

There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]

### Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA:

Date: 9-29-18

Operator: Phil Tougeus

Valve Shed # 1 by Condenser						
No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	155	O/C	✓	Y N	
2	SG Unit 2 B1-2	160	O/C	✓	Y N	
3	Reheaters B1-3	160	O/C	✓	Y N	
4	Rack 2 West HTF B1-4	160	O/C	✓	Y N	
5	Rack 2 East HTF B1-5	160	O/C	✓	Y N	
6	North Steel Pro B1-6	160	O/C	✓	Y N	
7	HTF Pumps B1-7	160	O/C	✓	Y N	
8	HTF Heaters B1-8	160	O/C	✓	Y N	
9	South Steel Pro B1-9	155	O/C	✓	Y N	
10	Lube Oil B1-10	155	O/C	✓	Y N	
11	Turbine Hose Stations B1-11	155	O/C	✓	Y N	
12	Turbine Bearings B1-12	160	O/C	✓	Y N	

Valve Shed # 2 by Overflow						
No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	O/C	✓	Y N	
2	Ullage Area B2-2	165	O/C	✓	Y N	
3	Ullage Structure B2-11	165	O/C	✓	Y N	
4	Rack 1 Middle Area B2-5	165	O/C	✓	Y N	
5	Overflow Tanks B2-9	165	O/C	✓	Y N	
6	Rack 1 South Area B2-6	165	O/C	✓	Y N	
7	Rack 1 West B2-7	160	O/C	✓	Y N	
8	Rack 1 North Area B2-4	160	O/C	✓	Y N	
9	Over flow AFFF B2-6	165	O/C	✓	Y N	
10	Expansion Vessel AFFF B2-3	165	O/C	✓	Y N	

Valve Shed # 3 by Bldg 35 GE Electrical Bldg						
No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	O/C	✓	Y N	
2	Transformer Main	165	O/C	✓	Y N	

Valve Shed # 4 by Cooling Tower West Side						
No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	O/C	✓	Y N	

Valve Shed # 5 by Control Bldg 10						
No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	O/C	✓	Y N	
2	Offices B4-3	165	O/C	✓	Y N	
3	Electrical Room B4-4	165	O/C	✓	Y N	

Turbine Sprinkler Valves (These are to be locked in the open position)						
No.	System	Locked	Viv. Pos.	Comments		
1	Bearing 2	Y N	O/C			
2	Bearing 3	Y N	O/C			
3	Bearing 4	Y N	O/C			
4	Bearing 5	Y N	O/C			

HTF Deluge System Valves (To be Locked in the Open Position)						
No.	System	Locked	Viv. Pos.	Comments		
1	MP-201	Y N	O/C			
2	MP-200A	Y N	O/C			
3	MP-200B	Y N	O/C			
4	MP-200C	Y N	O/C			
5	MP-200D	Y N	O/C			

Fire Pump House Deluge System						
No.	System	PSI	O/C	Locked	Comments	
1	Fire Pump House Deluge			Y N		

PIV Checks						
No.	System	Position	Cycled	Date Cycled	Comments	
1	Maintenance Shop Drive Way #7	O/C	NO	9-2-18		
2	Maintenance Shop Drive Way #8	O/C				
3	West Side Power Block by VS-3 # 9	O/C				
4	West Side Power Block by VS-1 # 10	O/C				
5	West Side Cooling Tower by VS-4 # 11	O/C				
6	West side Cooling Tower by VS-4 # 12	O/C				
7	N.W. Corner Chemical Storage #1	O/C				
8	N.E. Corner Chemical Storage # 2	O/C				
9	East Side W.T. by Multimedia Filters # 3	O/C				
10	East Side W.T. by Multimedia Filters # 5	O/C				
11	North Side Bldg 10 # 6	O/C				
12	Between MP-444's and Water Treat # 4	O/C				
13	West Side Power Block Valve Shed #1	O/C				

To Be Cycled First Saturday of Every Month						
No.	System	Debris			Comments / Actions	
1	Transformer Yard Refuse Check	Y N				



## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input checked="" type="checkbox"/>	Beta <input type="checkbox"/>	Date: 9-22-18	
Operator: Efm'n		<b>*To be completed each time unit is operated.</b>	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: 155			
Discharge Pressure: 163			
Pump Suction Pressure:		Pump Discharge pressure: 163	
Comments:			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: 150			
Start time: 0025			
Pump Suction Pressure: 25		Pump Discharge pressure: 150	
Stop time: 0025		Total time running 45 secs	
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Monthly Fuel Consumption:	
Battery volt Crank 1: 27		Battery Condition: Good	
Starting hour meter: 37.4		Start time: 0032	
Oil pressure start: 1 psi		Start up pressure: 145 psi	
Pump Suction Pressure: 20 psi		Oil Pressure finish:	
		Pump Discharge pressure: 145 psi	
Coolant temperature after 30 minutes running: 178 <del>175</del>			
Stop time: 0102		Stop hour meter: 37.7	
Total time running: 30 min			
Comments: Alarm came in @ about 25 min			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.			
<b>Note: Fuel consumption 27 gal/ h approximately.</b>			
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]			

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒

BETA: ☐

Date: 9-21-18

Operator PHIL TOWLELLIS

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	O	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	2	9-8-18	
2	Maintenance Shop Drive Way #8	O/C	2		
3	West Side Power Block by VS-3 # 9	O/C	2		
4	West Side Power Block by VS-1 # 10	O/C	2		
5	West Side Cooling Tower by VS-4 # 11	O/C	2		
6	West side Cooling Tower by VS-4 # 12	O/C	2		
7	N.W. Corner Chemical Storage #1	O/C	2		
8	N.E. Corner Chemical Storage # 2	O/C	2		
9	East Side W.T. by Multimedia Filters # 3	O/C	2		
10	East Side W.T. by Multimedia Filters # 5	O/C	2		
11	North Side Bldg 10 # 6	O/C	2		
12	Between MP-44's and Water Treat # 4	O/C	2		
13	West Side Power Block Valve Shed #1	O/C	2		

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input checked="" type="checkbox"/>	Beta <input type="checkbox"/>	Date: 9-23-18	
Operator: Collin Anderson		*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: 185			
Discharge Pressure: 165			
Pump Suction Pressure: N/A		Pump Discharge pressure: 165	
Comments:			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: 145			
Start time: 1945			
Pump Suction Pressure: 0		Pump Discharge pressure: 150	
Stop time: 1955		Total time running 10 Minutes	
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Monthly Fuel Consumption:	
Battery volt Crank 1: X	Battery volt Crank 2:	Battery Condition: Good	
Starting hour meter: 37		Start time: 2000 Start up pressure:	
Oil pressure start: 69		Oil Pressure finish: 39	
Pump Suction Pressure: 0		Pump Discharge pressure: 150	
Coolant temperature after 30 minutes running: 189			
Stop time: 2030		Stop hour meter: 37.4 Total time running: 30 Minutes	
Comments:			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.			
Note: Fuel consumption 27 gal/ h approximately.			
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]			

Automated Fire Systems Inspection Checklist

Plant: ALPHA *RA*

BETA: ☐

Date: *9-15-18*

Operator: *PHIL TOLAN*

Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 <i>B1-1</i>	<i>155</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	
2	SG Unit 2 <i>B1-2</i>	<i>155</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	
3	Reheaters <i>B1-3</i>	<i>155</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	
4	Rack 2 West HTF <i>B1-4</i>	<i>155</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	
5	Rack 2 East HTF <i>B1-5</i>	<i>155</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	
6	North Steel Pro <i>B1-6</i>	<i>155</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	
7	HTF Pumps <i>B1-7</i>	<i>155</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	
8	HTF Heaters <i>B1-8</i>	<i>155</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	
9	South Steel Pro <i>B1-9</i>	<i>155</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	
10	Lube Oil <i>B1-10</i>	<i>155</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	
11	Turbine Hose Stations <i>B1-11</i>	<i>155</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	
12	Turbine Bearings <i>B1-12</i>	<i>155</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	

Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels <i>B2-1</i>	<i>160</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	
2	Ullage Area <i>B2-2</i>	<i>160</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	
3	Ullage Structure <i>B2-11</i>	<i>160</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	
4	Rack 1 Middle Area <i>B2-5</i>	<i>160</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	
5	Overflow Tanks <i>B2-9</i>	<i>160</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	
6	Rack 1 South Area <i>B2-6</i>	<i>160</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	
7	Rack 1 West <i>B2-7</i>	<i>160</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	
8	Rack 1 North Area <i>B2-4</i>	<i>160</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	
9	Over flow AFFF <i>B2-8</i>	<i>160</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	
10	Expansion Vessel AFFF <i>B2-3</i>	<i>160</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	

Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	<i>160</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	
2	Transformer Main	<i>160</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	

Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	<i>160</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	

Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room <i>B4-5</i>	<i>160</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	
2	Offices <i>B4-3</i>	<i>160</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	
3	Electrical Room <i>B4-4</i>	<i>160</i>	<i>O/C</i>	<i>✓</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	

Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	<i>O/C</i>	
2	Bearing 3	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	<i>O/C</i>	
3	Bearing 4	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	<i>O/C</i>	
4	Bearing 5	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	<i>O/C</i>	

HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	<i>O/C</i>	
2	MP-200A	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	<i>O/C</i>	
3	MP-200B	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	<i>O/C</i>	
4	MP-200C	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	<i>O/C</i>	
5	MP-200D	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	<i>O/C</i>	

Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	<i>150</i>	<i>O</i>	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	

PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	<i>O/C</i>	<i>X</i>	<i>9-8-18</i>	
2	Maintenance Shop Drive Way #8	<i>O/C</i>	<i>X</i>		
3	West Side Power Block by VS-3 # 9	<i>O/C</i>	<i>X</i>		
4	West Side Power Block by VS-1 # 10	<i>O/C</i>	<i>X</i>		
5	West Side Cooling Tower by VS-4 # 11	<i>O/C</i>	<i>X</i>		
6	West side Cooling Tower by VS-4 # 12	<i>O/C</i>	<i>X</i>		
7	N.W. Corner Chemical Storage #1	<i>O/C</i>	<i>X</i>		
8	N.E. Corner Chemical Storage # 2	<i>O/C</i>	<i>X</i>		
9	East Side W.T. by Multimedia Filters # 3	<i>O/C</i>	<i>X</i>		
10	East Side W.T. by Multimedia Filters # 5	<i>O/C</i>	<i>X</i>		
11	North Side Bldg 10 # 6	<i>O/C</i>	<i>X</i>		
12	Between MP-444's and Water Treat # 4	<i>O/C</i>	<i>X</i>		
13	West Side Power Block Valve Shed #1	<i>O/C</i>	<i>X</i>		

To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	<i>Y</i> <input checked="" type="checkbox"/> <i>N</i>	



## Fire Pump Weekly Test Log

### General Information

Plant: Alpha ☒ Beta ☐ Date: 9/9/18  
 Operator: Collin Anderson  
 Reason for running pumps: Weekly test ☒ Maintenance ☐ Emergency ☐  
 \*To be completed each time unit is operated.

### Jockey Electric Pump

Pre-start Inspection: Electrical Feed ☒ Mechanical ☒ Valves ☒  
 Check the jockey pump on pressure drop. Start up pressure: 154  
 Discharge Pressure: 155  
 Pump Suction Pressure: N/A Pump Discharge pressure: 155  
 Comments:

### Electric Pump

Pre-start Inspection: Electrical Feed ☒ Mechanical ☒ Valves ☒  
 Start the pump on pressure drop. Start up pressure: 144  
 Start time: 2005  
 Pump Suction Pressure: N/A Pump Discharge pressure:  
 Stop time: 2015 Total time running 10 minutes  
 Comments:

### Diesel Pump

Pre-start Inspection: Coolant ☒ Oil ☒ Mechanical ☒ Valves ☒ Water Jacket Heater ☒  
 Fuel level > 2/3: Yes ☒ No ☐ Monthly Fuel Consumption:  
 Battery volt Crank 1: Battery volt Crank 2: ☒ Battery Condition: Normal  
 Starting hour meter: 36.6 Start time: 2020 Start up pressure:  
 Oil pressure start: 63 Oil Pressure finish: 40  
 Pump Suction Pressure: N/A Pump Discharge pressure: 150  
 Coolant temperature after 30 minutes running: 185  
 Stop time: 2050 Stop hour meter: 37 Total time running: 30 mins  
 Comments:

Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).

This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25- "Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.

**Note: Fuel consumption 27 gal/ h approximately.**

There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐

Date: 9-8-18

Operator: Michael Hinton

## Valve Shed # 1 by Condenser

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	163	O/C	✓	Y N	
2	SG Unit 2 B1-2	163	O/C	✓	Y N	
3	Reheaters B1-3	163	O/C	✓	Y N	
4	Rack 2 West HTF B1-4	160	O/C	✓	Y N	
5	Rack 2 East HTF B1-5	160	O/C	✓	Y N	
6	North Steel Pro B1-6	160	O/C	✓	Y N	
7	HTF Pumps B1-7	160	O/C	✓	Y N	
8	HTF Heaters B1-8	163	O/C	✓	Y N	
9	South Steel Pro B1-9	163	O/C	✓	Y N	
10	Lube Oil B1-10	163	O/C	✓	Y N	
11	Turbine Hose Stations B1-11	160	O/C	✓	Y N	
12	Turbine Bearings B1-12	160	O/C	✓	Y N	

## Valve Shed # 2 by Overflow

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	163	O/C	✓	Y N	
2	Ullage Area B2-2	163	O/C	✓	Y N	
3	Ullage Structure B2-11	163	O/C	✓	Y N	
4	Rack 1 Middle Area B2-5	163	O/C	✓	Y N	
5	Overflow Tanks B2-8	163	O/C	✓	Y N	
6	Rack 1 South Area B2-6	163	O/C	✓	Y N	
7	Rack 1 West B2-7	163	O/C	✓	Y N	
8	Rack 1 North Area B2-4	163	O/C	✓	Y N	
9	Overflow AFFF B2-8	163	O/C	✓	Y N	
10	Expansion Vessel AFFF B2-3	163	O/C	✓	Y N	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	O/C	✓	Y N	
2	Transformer Main	163	O/C	✓	Y N	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	163	O/C	✓	Y N	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	163	O/C	✓	Y N	
2	Offices B4-3	163	O/C	✓	Y N	
3	Electrical Room B4-4	163	O/C	✓	Y N	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Vlv. Pos.	Comments
1	Bearing 2	Y N	O/C	
2	Bearing 3	Y N	O/C	
3	Bearing 4	Y N	O/C	
4	Bearing 5	Y N	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Vlv. Pos.	Comments
1	MP-201	Y N	O/C	
2	MP-200A	Y N	O/C	
3	MP-200B	Y N	O/C	
4	MP-200C	Y N	O/C	
5	MP-200D	Y N	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	163	O	Y N	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C			
2	Maintenance Shop Drive Way #8	O/C			
3	West Side Power Block by VS-3 # 9	O/C			
4	West Side Power Block by VS-1 # 10	O/C			
5	West Side Cooling Tower by VS-4 # 11	O/C			
6	West side Cooling Tower by VS-4 # 12	O/C			
7	N.W. Corner Chemical Storage #1	O/C			
8	N.E. Corner Chemical Storage # 2	O/C			
9	East Side W.T. by Multimedia Filters # 3	O/C			
10	East Side W.T. by Multimedia Filters # 5	O/C			
11	North Side Bldg 10 # 6	O/C			
12	Between MP-444's and Water Treat # 4	O/C			
13	West Side Power Block Valve Shed #1	N/A	O/C		

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y N	

## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input checked="" type="checkbox"/>	Beta <input type="checkbox"/>	Date: 9-2-18	
Operator: Mike Hinton		*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: 155			
Discharge Pressure: 165			
Pump Suction Pressure: N/A		Pump Discharge pressure: 165	
Comments:			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: 145			
Start time: 2210			
Pump Suction Pressure: 10		Pump Discharge pressure: 160	
Stop time: 2220		Total time running 10 mins.	
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Monthly Fuel Consumption:	
Battery volt Crank 1: 27.2		Battery Condition:	
Battery volt Crank 2: 27.3		Start time: 2225	
Starting hour meter: 36.4, 36.6 end.		Start up pressure: 165	
Oil pressure start: 61		Oil Pressure finish:	
Pump Suction Pressure: 10		Pump Discharge pressure: 160	
Coolant temperature after 30 minutes running: 189			
Stop time: 2239		Total time running: 14 mins	
Comments: Change air cooler temp high alarm shutdown.			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.			
Note: Fuel consumption 27 gal/ h approximately.			
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]			



# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐

Date: 9-2-18

Operator: Anderson

## Valve Shed # 1 by Condenser

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	155	O/C	✓	Y / N	
2	SG Unit 2 B1-2	155	O/C	✓	Y / N	
3	Reheaters B1-3	155	O/C	✓	Y / N	
4	Rack 2 West HTF B1-4	155	O/C	✓	Y / N	
5	Rack 2 East HTF B1-5	155	O/C	✓	Y / N	
6	North Steel Pro B1-6	155	O/C	✓	Y / N	
7	HTF Pumps B1-7	155	O/C	✓	Y / N	
8	HTF Heaters B1-8	155	O/C	✓	Y / N	
9	South Steel Pro B1-9	155	O/C	✓	Y / N	
10	Lube Oil B1-10	155	O/C	✓	Y / N	
11	Turbine Hose Stations B1-11	155	O/C	✓	Y / N	
12	Turbine Bearings B1-12	155	O/C	✓	Y / N	

## Valve Shed # 2 by Overflow

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	175	O/C	✓	Y / N	
2	Ullage Area B2-2	175	O/C	✓	Y / N	
3	Ullage Structure B2-11	175	O/C	✓	Y / N	
4	Rack 1 Middle Area B2-5	175	O/C	✓	Y / N	
5	Overflow Tanks B2-9	175	O/C	✓	Y / N	
6	Rack 1 South Area B2-6	175	O/C	✓	Y / N	
7	Rack 1 West B2-7	175	O/C	✓	Y / N	
8	Rack 1 North Area B2-4	175	O/C	✓	Y / N	
9	Over flow AFFF B2-8	175	O/C	✓	Y / N	
10	Expansion Vessel AFFF B2-3	175	O/C	✓	Y / N	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	O/C	✓	Y / N	
2	Transformer Main	160	O/C	✓	Y / N	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	O/C	✓	Y / N	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	O/C		Y / N	
2	Offices B4-3	160	O/C		Y / N	
3	Electrical Room B4-4	160	O/C		Y / N	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Vlv. Pos.	Comments
1	Bearing 2	Y / N	O/C	
2	Bearing 3	Y / N	O/C	
3	Bearing 4	Y / N	O/C	
4	Bearing 5	Y / N	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Vlv. Pos.	Comments
1	MP-201	Y / N	O/C	
2	MP-200A	Y / N	O/C	
3	MP-200B	Y / N	O/C	
4	MP-200C	Y / N	O/C	
5	MP-200D	Y / N	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	170	0	Y / N	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C			
2	Maintenance Shop Drive Way #8	O/C			
3	West Side Power Block by VS-3 # 9	O/C			
4	West Side Power Block by VS-1 # 10	O/C			
5	West Side Cooling Tower by VS-4 # 11	O/C			
6	West side Cooling Tower by VS-4 # 12	O/C			
7	N.W. Corner Chemical Storage #1	O/C			
8	N.E. Corner Chemical Storage # 2	O/C			
9	East Side W.T. by Multimedia Filters # 3	O/C			
10	East Side W.T. by Multimedia Filters # 5	O/C			
11	North Side Bldg 10 # 6	O/C			
12	Between MP-444's and Water Treat # 4	O/C			
13	West Side Power Block Valve Shed #1	O/C			

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y / N	



# ABENGOA

Mojave Solar LLC

## Fire Pump Weekly Test Log

### General Information

Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 8-27-18
Operator: Phil TORGES	*To be completed each time unit is operated.
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>	

### Jockey Electric Pump

Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>
Check the jockey pump on pressure drop. Start up pressure: 155
Discharge Pressure: 165
Pump Suction Pressure: 20 Pump Discharge pressure: 165
Comments:

### Electric Pump

Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>
Start the pump on pressure drop. Start up pressure: 145
Start time: 2003
Pump Suction Pressure: 20 Pump Discharge pressure: 155
Stop time: 22:13 Total time running 10 mins
Comments:

### Diesel Pump

Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 1/2 Monthly Fuel Consumption:
Battery volt Crank 1: 26.7 Battery volt Crank 2: 27.3 Battery Condition: Good
Starting hour meter: 36.2 Start time: 22:17 Start up pressure: 135
Oil pressure start: 66 Oil Pressure finish: 44
Pump Suction Pressure: 20 Pump Discharge pressure: 150
Coolant temperature after 30 minutes running: 190
Stop time: 22:33 Stop hour meter: 36.4 Total time running: 16 mins
Comments: CHARGE AIR COOLER HIGH TEMP. SHOT PUMP DOWN.

Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).

This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.

**Note:** Fuel consumption 27 gal/ h approximately.

There is no limit on engine operation for emergency use. [Title 17 CCR 93115 6(a)(4)]

### Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒

BETA: ☐

Date: 8-25-18

Operator: Collin Anderson

#### Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	24	OC	✓	Y ✓ N	
2	SG Unit 2 B1-2	24	OC	✓	Y ✓ N	
3	Reheaters B1-3	24	OC	✓	Y ✓ N	
4	Rack 2 West HTF B1-4	24	OC	✓	Y ✓ N	
5	Rack 2 East HTF B1-5	24	OC	✓	Y ✓ N	
6	North Steel Pro B1-6	24	OC	✓	Y ✓ N	
7	HTF Pumps B1-7	24	OC	✓	Y ✓ N	
8	HTF Heaters B1-8	24	OC	✓	Y ✓ N	
9	South Steel Pro B1-9	24	OC	✓	Y ✓ N	
10	Lube Oil B1-10	24	OC	✓	Y ✓ N	
11	Turbine Hose Stations B1-11	24	OC	✓	Y ✓ N	
12	Turbine Bearings B1-12	24	OC	✓	Y ✓ N	

#### Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	20	OC	✓	Y ✓ N	
2	Ullage Area B2-2	20	OC	✓	Y ✓ N	
3	Ullage Structure B2-11	20	OC	✓	Y ✓ N	
4	Rack 1 Middle Area B2-5	20	OC	✓	Y ✓ N	
5	Overflow Tanks B2-9	20	OC	✓	Y ✓ N	
6	Rack 1 South Area B2-6	20	OC	✓	Y ✓ N	
7	Rack 1 West B2-7	20	OC	✓	Y ✓ N	
8	Rack 1 North Area B2-4	20	OC	✓	Y ✓ N	
9	Overflow AFFF B2-8	20	OC	✓	Y ✓ N	
10	Expansion Vessel AFFF B2-3	20	OC	✓	Y ✓ N	

#### Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux		OC	✓	Y ✓ N	
2	Transformer Main		OC	✓	Y ✓ N	

#### Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	0	OC	✓	Y ✓ N	

#### Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	30	OC	✓	Y ✓ N	
2	Offices B4-3	30	OC	✓	Y ✓ N	
3	Electrical Room B4-4	30	OC	✓	Y ✓ N	

#### Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y ✓ N	OC	
2	Bearing 3	Y ✓ N	OC	
3	Bearing 4	Y ✓ N	OC	
4	Bearing 5	Y ✓ N	OC	

#### HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y ✓ N	OC	
2	MP-200A	Y ✓ N	OC	
3	MP-200B	Y ✓ N	OC	
4	MP-200C	Y ✓ N	OC	
5	MP-200D	Y ✓ N	OC	

#### Fire Pump House Deluge System

No.	System	PSI	OC	Locked	Comments
1	Fire Pump House Deluge	0	OC	Y ✓ N	

#### PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	OC			
2	Maintenance Shop Drive Way #8	OC			
3	West Side Power Block by VS-3 # 9	OC			
4	West Side Power Block by VS-1 # 10	OC			
5	West Side Cooling Tower by VS-4 # 11	OC			
6	West side Cooling Tower by VS-4 # 12	OC			
7	N.W. Corner Chemical Storage #1	OC			
8	N.E. Corner Chemical Storage # 2	OC			
9	East Side W.T. by Multimedia Filters # 3	OC			
10	East Side W.T. by Multimedia Filters # 5	OC			
11	North Side Bldg 10 # 6	OC			
12	Between MP-444's and Water Treat # 4	OC			
13	West Side Power Block Valve Shed #1	OC			

#### To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y ✓ N	

## Fire Pump Weekly Test Log

General Information			
Plant:	Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 8-19-18	
Operator:	Efrain Morales	<b>*To be completed each time unit is operated.</b>	
Reason for running pumps:	Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump			
Pre-start Inspection:	Electrical Feed <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure:			
Discharge Pressure:			
Pump Suction Pressure:		Pump Discharge pressure:	
Comments: Pump off due to repairs			
Electric Pump			
Pre-start Inspection:	Electrical Feed <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/>		
Start the pump on pressure drop. Start up pressure:			
Start time:			
Pump Suction Pressure:		Pump Discharge pressure:	
Stop time:		Total time running	
Comments: Pump off due to repairs			
Diesel Pump			
Pre-start Inspection:	Coolant <input type="checkbox"/> Oil <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/> Water Jacket Heater <input type="checkbox"/>		
Fuel level > 2/3:	Yes <input type="checkbox"/> No <input type="checkbox"/>	Monthly Fuel Consumption:	
Battery volt Crank 1:	Battery volt Crank 2:	Battery Condition:	
Starting hour meter:		Start time:	Start up pressure:
Oil pressure start:		Oil Pressure finish:	
Pump Suction Pressure:		Pump Discharge pressure:	
Coolant temperature after 30 minutes running:			
Stop time:	Stop hour meter:	Total time running:	
Comments: Pump off due to repairs			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p><b>Note: Fuel consumption 27 gal/ h approximately.</b></p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>			

Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA ☐ Date: 8-19-18 Operator: Efrain

Valve Shed # 1 by Condenser

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	20	✓ O/C	✓	Y ✓ N	
2	SG Unit 2 B1-2	20	✓ O/C	✓	Y ✓ N	
3	Reheaters B1-3	15	✓ O/C	✓	Y ✓ N	
4	Rack 2 West HTF B1-4	20	✓ O/C	✓	Y ✓ N	
5	Rack 2 East HTF B1-5	15	✓ O/C	✓	Y ✓ N	
6	North Steel Pro B1-6	20	✓ O/C	✓	Y ✓ N	
7	HTF Pumps B1-7	20	✓ O/C	✓	Y ✓ N	
8	HTF Heaters B1-8	20	✓ O/C	✓	Y ✓ N	
9	South Steel Pro B1-9	20	✓ O/C	✓	Y ✓ N	
10	Lube Oil B1-10	15	✓ O/C	✓	Y ✓ N	
11	Turbine Hose Stations B1-11	15	✓ O/C	✓	Y ✓ N	
12	Turbine Bearings B1-12	15	✓ O/C	✓	Y ✓ N	

Valve Shed # 2 by Overflow

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	30	✓ O/C	✓	Y ✓ N	
2	Ullage Area B2-2	20	✓ O/C	✓	Y ✓ N	
3	Ullage Structure B2-11	20	✓ O/C	✓	Y ✓ N	
4	Rack 1 Middle Area B2-5	25	✓ O/C	✓	Y ✓ N	
5	Overflow Tanks B2-9	10	✓ O/C	✓	Y ✓ N	
6	Rack 1 South Area B2-6	20	✓ O/C	✓	Y ✓ N	
7	Rack 1 West B2-7	15	✓ O/C	✓	Y ✓ N	
8	Rack 1 North Area B2-4	20	✓ O/C	✓	Y ✓ N	
9	Over flow AFFF B2-8	0	✓ O/C	✓	Y ✓ N	
10	Expansion Vessel AFFF B2-3	0	✓ O/C	✓	Y ✓ N	

Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Transformer Aux	20	✓ O/C	✓	Y ✓ N	
2	Transformer Main	20	✓ O/C	✓	Y ✓ N	

Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	0	✓ O/C	✓	Y ✓ N	

Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	85	✓ O/C	✓	Y ✓ N	
2	Offices B4-3	85	✓ O/C	✓	Y ✓ N	
3	Electrical Room B4-4	85	✓ O/C	✓	Y ✓ N	

Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Vlv. Pos.	Comments
1	Bearing 2	Y ✓ N	✓ O/C	
2	Bearing 3	Y ✓ N	✓ O/C	
3	Bearing 4	Y ✓ N	✓ O/C	
4	Bearing 5	Y ✓ N	✓ O/C	

HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Vlv. Pos.	Comments
1	MP-201	Y ✓ N	✓ O/C	
2	MP-200A	Y ✓ N	✓ O/C	
3	MP-200B	Y ✓ N	✓ O/C	
4	MP-200C	Y ✓ N	✓ O/C	
5	MP-200D	Y ✓ N	✓ O/C	

Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	0	✓	Y N X	

PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	✓ O/C	X	8-4	
2	Maintenance Shop Drive Way #8	✓ O/C	X	8-4	
3	West Side Power Block by VS-3 # 9	✓ O/C	X	8-4	
4	West Side Power Block by VS-1 # 10	✓ O/C	X	8-4	
5	West Side Cooling Tower by VS-4 # 11	✓ O/C	X	8-4	
6	West side Cooling Tower by VS-4 # 12	✓ O/C	X	8-4	
7	N.W. Corner Chemical Storage #1	✓ O/C	X	8-4	
8	N.E. Corner Chemical Storage # 2	✓ O/C	X	8-4	
9	East Side W.T. by Multimedia Filters # 3	O/C ✓	X	8-4	
10	East Side W.T. by Multimedia Filters # 5	O/C ✓	X	8-4	
11	North Side Bldg 10 # 6	✓ O/C	X	8-4	
12	Between MP-444's and Water Treat # 4	✓ O/C	X	8-4	
13	West Side Power Block Valve Shed #1	O/C	X	8-4	

To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y N X	



## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 8-11-18	
Operator: Phil TOURGENS	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure:		
Discharge Pressure:		
Pump Suction Pressure:	Pump Discharge pressure:	
Comments: NO TEST VALVED OUT		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure:		
Start time:		
Pump Suction Pressure:	Pump Discharge pressure:	
Stop time:	Total time running	
Comments: NO TEST VALVED OUT		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input type="checkbox"/>	Monthly Fuel Consumption:	
Battery volt Crank 1:	Battery volt Crank 2:	Battery Condition:
Starting hour meter:	Start time:	
Oil pressure start:	Oil Pressure finish:	
Pump Suction Pressure:	Pump Discharge pressure:	
Coolant temperature after 30 minutes running:		
Stop time:	Stop hour meter:	Total time running:
Comments: NO TEST VALVED OUT		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25- "Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐ Date: 8-11-18 Operator: PHIL TOWLE

Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	20	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	110	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	20	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	150	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	145	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	20	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	150	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	30	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	20	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	20	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	65	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	75	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	25	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	120	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	150	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	120	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	40	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	40	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	40	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	170	0	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	x	8-4	
2	Maintenance Shop Drive Way #8	O/C	x	8-4	
3	West Side Power Block by VS-3 # 9	O/C	x	8-4	
4	West Side Power Block by VS-1 # 10	O/C	x	8-4	
5	West Side Cooling Tower by VS-4 # 11	O/C	x	8-4	
6	West side Cooling Tower by VS-4 # 12	O/C	x	8-4	
7	N.W. Corner Chemical Storage #1	O/C	x	8-4	
8	N.E. Corner Chemical Storage # 2	O/C	x	8-4	
9	East Side W.T. by Multimedia Filters # 3	O/C	x	8-4	
10	East Side W.T. by Multimedia Filters # 5	O/C	x	8-4	
11	North Side Bldg 10 # 6	O/C	x	8-4	
12	Between MP-444's and Water Treat # 4	O/C	x	8-4	
13	West Side Power Block Valve Shed #1	O/C	x	8-4	

To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 7-28-18	
Operator: Phil TOURGELS	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure:		
Discharge Pressure:		
Pump Suction Pressure:	Pump Discharge pressure:	
Comments: NO TEST VALVED OUT		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure:		
Start time:		
Pump Suction Pressure:	Pump Discharge pressure:	
Stop time:	Total time running	
Comments: NO TEST VALVED OUT		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input type="checkbox"/>	Monthly Fuel Consumption:	
Battery volt Crank 1: Battery volt Crank 2:	Battery Condition:	
Starting hour meter:	Start time:	
Oil pressure start:	Oil Pressure finish:	
Pump Suction Pressure:	Pump Discharge pressure:	
Coolant temperature after 30 minutes running:		
Stop time:	Stop hour meter:	Total time running:
Comments: NO TEST VALVED OUT		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐

Date: 7-28-18

Operator: PHIL TOUGERALS

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	0	OC	✓	Y/N	
2	SG Unit 2 B1-2	0	OC	✓	Y/N	
3	Reheaters B1-3	0	OC	✓	Y/N	
4	Rack 2 West HTF B1-4	0	OC	✓	Y/N	
5	Rack 2 East HTF B1-5	0	OC	✓	Y/N	
6	North Steel Pro B1-6	0	OC	✓	Y/N	
7	HTF Pumps B1-7	0	OC	✓	Y/N	
8	HTF Heaters B1-8	0	OC	✓	Y/N	
9	South Steel Pro B1-9	0	OC	✓	Y/N	
10	Lube Oil B1-10	0	OC	✓	Y/N	
11	Turbine Hose Stations B1-11	0	OC	✓	Y/N	
12	Turbine Bearings B1-12	0	OC	✓	Y/N	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	0	OC	✓	Y/N	
2	Ullage Area B2-2	0	OC	✓	Y/N	
3	Ullage Structure B2-11	0	OC	✓	Y/N	
4	Rack 1 Middle Area B2-5	0	OC	✓	Y/N	
5	Overflow Tanks B2-9	0	OC	✓	Y/N	
6	Rack 1 South Area B2-6	0	OC	✓	Y/N	
7	Rack 1 West B2-7	0	OC	✓	Y/N	
8	Rack 1 North Area B2-4	0	OC	✓	Y/N	
9	Over flow AFFF B2-8	0	OC	✓	Y/N	
10	Expansion Vessel AFFF B2-3	0	OC	✓	Y/N	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	0	OC	✓	Y/N	
2	Transformer Main	0	OC	✓	Y/N	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	0	OC	✓	Y/N	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	0	OC	✓	Y/N	
2	Offices B4-3	0	OC	✓	Y/N	
3	Electrical Room B4-4	0	OC	✓	Y/N	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y/N	OC	
2	Bearing 3	Y/N	OC	
3	Bearing 4	Y/N	OC	
4	Bearing 5	Y/N	OC	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y/N	OC	
2	MP-200A	Y/N	OC	
3	MP-200B	Y/N	OC	
4	MP-200C	Y/N	OC	
5	MP-200D	Y/N	OC	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	0	OC	Y/N	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	OC	X	7-18	
2	Maintenance Shop Drive Way #8	OC	X		
3	West Side Power Block by VS-3 # 9	OC	X		
4	West Side Power Block by VS-1 # 10	OC	X		
5	West Side Cooling Tower by VS-4 # 11	OC	X		
6	West side Cooling Tower by VS-4 # 12	OC	X		
7	N.W. Corner Chemical Storage #1	OC	X		
8	N.E. Corner Chemical Storage # 2	OC	X		
9	East Side W.T. by Multimedia Filters # 3	OC	X		
10	East Side W.T. by Multimedia Filters # 5	OC	X		
11	North Side Bldg 10 # 6	OC	X		
12	Between MP-444's and Water Treat # 4	OC	X		
13	West Side Power Block Valve Shed #1	OC	X		

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y/N	



## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input checked="" type="checkbox"/>	Beta <input type="checkbox"/>	Date: 8-3-18	
Operator: Caleb Sowards		*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure:			
Discharge Pressure:			
Pump Suction Pressure:		Pump Discharge pressure:	
Comments: no test system valved out			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input type="checkbox"/>			
Start the pump on pressure drop. Start up pressure:			
Start time:			
Pump Suction Pressure:		Pump Discharge pressure:	
Stop time:		Total time running	
Comments: no test system valved out			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 5/8		Monthly Fuel Consumption:	
Battery volt Crank 1: 26		Battery Condition: good	
Starting hour meter: 36.2		Start time:	
Oil pressure start:		Oil Pressure finish:	
Pump Suction Pressure:		Pump Discharge pressure:	
Coolant temperature after 30 minutes running:			
Stop time:		Total time running:	
Comments: no test valved out			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (latest edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.			
Fuel consumption 27 gal/ h approximately.			
There is no limit on engine operation for emergency use. [Title 17 CCR 93115 6(a)(4)]			

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA ☐

Date: 8-4-18

Operator Efrain

## Valve Shed # 1 by Condenser

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	15	✓ O/C	✓	Y ✓ N	
2	SG Unit 2 B1-2	15	✓ O/C	✓	Y ✓ N	
3	Reheaters B1-3	15	✓ O/C	✓	Y ✓ N	
4	Rack 2 West HTF B1-4	15	✓ O/C	✓	Y ✓ N	
5	Rack 2 East HTF B1-5	15	✓ O/C	✓	Y ✓ N	
6	North Steel Pro B1-6	15	✓ O/C	✓	Y ✓ N	
7	HTF Pumps B1-7	15	✓ O/C	✓	Y ✓ N	
8	HTF Heaters B1-8	15	✓ O/C	✓	Y ✓ N	
9	South Steel Pro B1-9	15	✓ O/C	✓	Y ✓ N	
10	Lube Oil B1-10	15	✓ O/C	✓	Y ✓ N	
11	Turbine Hose Stations B1-11	15	✓ O/C	✓	Y ✓ N	
12	Turbine Bearings B1-12	15	✓ O/C	✓	Y ✓ N	

## Valve Shed # 2 by Overflow

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	20	✓ O/C	✓	Y ✓ N	
2	Ullage Area B2-2	20	✓ O/C	✓	Y ✓ N	
3	Ullage Structure B2-11	20	✓ O/C	✓	Y ✓ N	
4	Rack 1 Middle Area B2-5	15	✓ O/C	✓	Y ✓ N	
5	Overflow Tanks B2-9	15	✓ O/C	✓	Y ✓ N	
6	Rack 1 South Area B2-6	20	✓ O/C	✓	Y ✓ N	
7	Rack 1 West B2-7	20	✓ O/C	✓	Y ✓ N	
8	Rack 1 North Area B2-4	20	✓ O/C	✓	Y ✓ N	
9	Over flow AFFF B2-8	20	✓ O/C	✓	Y ✓ N	
10	Expansion Vessel AFFF B2-3	15	✓ O/C	✓	Y ✓ N	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Transformer Aux	15	✓ O/C	✓	Y ✓ N	
2	Transformer Main	15	✓ O/C	✓	Y ✓ N	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	20	✓ O/C	✓	Y ✓ N	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	40	✓ O/C	✓	Y ✓ N	
2	Offices B4-3	40	✓ O/C	✓	Y ✓ N	
3	Electrical Room B4-4	40	✓ O/C	✓	Y ✓ N	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Vlv. Pos.	Comments
1	Bearing 2	Y ✓ N	✓ O/C	
2	Bearing 3	Y ✓ N	✓ O/C	
3	Bearing 4	Y ✓ N	✓ O/C	
4	Bearing 5	Y ✓ N	✓ O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Vlv. Pos.	Comments
1	MP-201	Y ✓ N	✓ O/C	
2	MP-200A	Y ✓ N	✓ O/C	
3	MP-200B	Y ✓ N	✓ O/C	
4	MP-200C	Y ✓ N	✓ O/C	
5	MP-200D	Y ✓ N	✓ O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	130	✓	Y - N	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	✓ O/C	✓	8-4	
2	Maintenance Shop Drive Way #8	✓ O/C	✓	8-4	
3	West Side Power Block by VS-3 # 9	✓ O/C	✓	8-4	
4	West Side Power Block by VS-1 # 10	✓ O/C	✓	8-4	
5	West Side Cooling Tower by VS-4 # 11	✓ O/C	✓	8-4	
6	West side Cooling Tower by VS-4 # 12	✓ O/C	✓	8-4	
7	N.W. Corner Chemical Storage #1	✓ O/C	✓	8-4	
8	N.E. Corner Chemical Storage # 2	✓ O/C	✓	8-4	
9	East Side W.T. by Multimedia Filters # 3	✓ O/C	✓	8-4	
10	East Side W.T. by Multimedia Filters # 5	✓ O/C	✓	8-4	
11	North Side Bldg 10 # 6	✓ O/C	✓	8-4	
12	Between MP-444's and Water Treat # 4	✓ O/C	✓	8-4	
13	West Side Power Block Valve Shed #1	✓ O/C	✓	8-4	late

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y - N	

## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input checked="" type="checkbox"/>	Beta <input type="checkbox"/>	Date: 7/8/18	
Operator:		*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure:			
Discharge Pressure:			
Pump Suction Pressure:		Pump Discharge pressure:	
Comments: Pump is currently off.			
Electric Pump			
Pre-start Inspection: Electrical Feed <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/>			
Start the pump on pressure drop. Start up pressure:			
Start time:			
Pump Suction Pressure:		Pump Discharge pressure:	
Stop time:		Total time running	
Comments: Pump is currently off.			
Diesel Pump			
Pre-start Inspection: Coolant <input type="checkbox"/> Oil <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/> Water Jacket Heater <input type="checkbox"/>			
Fuel level > 2/3: Yes <input type="checkbox"/> No <input type="checkbox"/>		Monthly Fuel Consumption:	
Battery volt Crank 1:	Battery volt Crank 2:	Battery Condition:	
Starting hour meter:		Start time:	
Oil pressure start:		Oil Pressure finish:	
Pump Suction Pressure:		Pump Discharge pressure:	
Coolant temperature after 30 minutes running:			
Stop time:		Stop hour meter:	Total time running:
Comments: Pump is currently off.			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115 6(a)(4)]</p>			

ABENGOA

Mojave Solar LLC

Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 5-23-18	
Operator: C	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure:		
Discharge Pressure:		
Pump Suction Pressure:	Pump Discharge pressure:	
Comments: no test valved out		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input type="checkbox"/>		
Start the pump on pressure drop. Start up pressure:		
Start time:		
Pump Suction Pressure:	Pump Discharge pressure:	
Stop time:	Total time running	
Comments: no test valved out		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> < 1/2	Monthly Fuel Consumption:	
Battery volt Crank 1: 26 Battery volt Crank 2: 26	Battery Condition: good	
Starting hour meter: 36.2	Start time:	
Oil pressure start:	Oil Pressure finish:	
Pump Suction Pressure:	Pump Discharge pressure:	
Coolant temperature after 30 minutes running:		
Stop time:	Stop hour meter:	Total time running:
Comments: no test valved out		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		



Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐ Date: 7-21-18 Operator: Hinton

Valve Shed # 1 by Condenser

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	10	O/C	✓	Y / N	
2	SG Unit 2 B1-2	10	O/C	✓	Y / N	
3	Reheaters B1-3	10	O/C	✓	Y / N	
4	Rack 2 West HTF B1-4	10	O/C	✓	Y / N	
5	Rack 2 East HTF B1-5	10	O/C	✓	Y / N	
6	North Steel Pro B1-6	10	O/C	✓	Y / N	
7	HTF Pumps B1-7	10	O/C	✓	Y / N	
8	HTF Heaters B1-8	10	O/C	✓	Y / N	
9	South Steel Pro B1-9	10	O/C	✓	Y / N	
10	Lube Oil B1-10	10	O/C	✓	Y / N	
11	Turbine Hose Stations B1-11	10	O/C	✓	Y / N	
12	Turbine Bearings B1-12	10	O/C	✓	Y / N	

Valve Shed # 2 by Overflow

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	0	O/C	✓	Y / N	
2	Ullage Area B2-2	0	O/C	✓	Y / N	
3	Ullage Structure B2-11	0	O/C	✓	Y / N	
4	Rack 1 Middle Area B2-5	10	O/C	✓	Y / N	
5	Overflow Tanks B2-9	0	O/C	✓	Y / N	
6	Rack 1 South Area B2-6	0	O/C	✓	Y / N	
7	Rack 1 West B2-7	0	O/C	✓	Y / N	
8	Rack 1 North Area B2-4	0	O/C	✓	Y / N	
9	Over flow AFFF B2-8	0	O/C	✓	Y / N	
10	Expansion Vessel AFFF B2-3	0	O/C	✓	Y / N	

Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Transformer Aux	0	O/C	✓	Y / N	
2	Transformer Main	0	O/C	✓	Y / N	

Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	15	O/C	✓	Y / N	

Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	0	O/C	✓	Y / N	
2	Offices B4-3	0	O/C	✓	Y / N	
3	Electrical Room B4-4	0	O/C	✓	Y / N	

Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Vlv. Pos.	Comments
1	Bearing 2	Y / N	O/C	
2	Bearing 3	Y / N	O/C	
3	Bearing 4	Y / N	O/C	
4	Bearing 5	Y / N	O/C	

HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Vlv. Pos.	Comments
1	MP-201	Y / N	O/C	
2	MP-200A	Y / N	O/C	
3	MP-200B	Y / N	O/C	
4	MP-200C	Y / N	O/C	
5	MP-200D	Y / N	O/C	

Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	10	0	Y / N	

PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	No	7-	
2	Maintenance Shop Drive Way #8	O/C			
3	West Side Power Block by VS-3 # 9	O/C			
4	West Side Power Block by VS-1 # 10	O/C			
5	West Side Cooling Tower by VS-4 # 11	O/C			
6	West side Cooling Tower by VS-4 # 12	O/C			
7	N.W. Corner Chemical Storage #1	O/C			
8	N.E. Corner Chemical Storage # 2	O/C			
9	East Side W.T. by Multimedia Filters # 3	O/C			
10	East Side W.T. by Multimedia Filters # 5	O/C			
11	North Side Bldg 10 # 6	O/C			
12	Between MP-444's and Water Treat # 4	O/C			
13	West Side Power Block Valve Shed #1	N/A			

To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y / N	

## Fire Pump Weekly Test Log

General Information			
Plant:	Alpha <input checked="" type="checkbox"/>	Beta <input type="checkbox"/>	Date: 7-16-18
Operator:	*To be completed each time unit is operated.		
Reason for running pumps:	Weekly test <input checked="" type="checkbox"/>	Maintenance <input type="checkbox"/>	Emergency <input type="checkbox"/>
Jockey Electric Pump			
Pre-start Inspection:	Electrical Feed <input checked="" type="checkbox"/>	Mechanical <input checked="" type="checkbox"/>	Valves <input checked="" type="checkbox"/>
Check the jockey pump on pressure drop. Start up pressure:			
Discharge Pressure:			
Pump Suction Pressure:		Pump Discharge pressure:	
Comments: Pump is currently off			
Electric Pump			
Pre-start Inspection:	Electrical Feed <input checked="" type="checkbox"/>	Mechanical <input checked="" type="checkbox"/>	Valves <input checked="" type="checkbox"/>
Start the pump on pressure drop. Start up pressure:			
Start time:			
Pump Suction Pressure:		Pump Discharge pressure:	
Stop time:		Total time running	
Comments: Pump is currently off.			
Diesel Pump			
Pre-start Inspection:	Coolant <input checked="" type="checkbox"/>	Oil <input checked="" type="checkbox"/>	Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>
Fuel level > 2/3:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Monthly Fuel Consumption:
Battery volt Crank 1:	Battery volt Crank 2:	Battery Condition:	
Starting hour meter:		Start time:	
Oil pressure start:		Oil Pressure finish:	
Pump Suction Pressure:		Pump Discharge pressure:	
Coolant temperature after 30 minutes running:			
Stop time:	Stop hour meter:	Total time running:	
Comments: Pump is currently off.			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25- "Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (latest edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. (Title 17 CCR 93115.6(a)(4))</p>			

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐

Date: 7-14-18

Operator: Mike Hinton

## Valve Shed # 1 by Condenser

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	10	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	10	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	10	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	10	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	10	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	10	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	10	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	10	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	10	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	10	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Transformer Aux	10	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	10	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	3	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Vlv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Vlv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	0	O	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	No	7-7	
2	Maintenance Shop Drive Way #8	O/C			
3	West Side Power Block by VS-3 # 9	O/C			
4	West Side Power Block by VS-1 # 10	O/C			
5	West Side Cooling Tower by VS-4 # 11	O/C			
6	West side Cooling Tower by VS-4 # 12	O/C			
7	N.W. Corner Chemical Storage #1	O/C			
8	N.E. Corner Chemical Storage # 2	O/C			
9	East Side W.T. by Multimedia Filters # 3	O/C			
10	East Side W.T. by Multimedia Filters # 5	O/C			
11	North Side Bldg 10 # 6	O/C			
12	Between MP-444's and Water Treat # 4	O/C			
13	West Side Power Block Valve Shed #1	O/C			

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 7-6-18	
Operator: Phil Torgelis	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure:		
Discharge Pressure:		
Pump Suction Pressure:	Pump Discharge pressure:	
Comments: NO TEST, SYSTEM VALVED OUT.		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure:		
Start time:		
Pump Suction Pressure:	Pump Discharge pressure:	
Stop time:	Total time running	
Comments: NO TEST, SYSTEM VALVED OUT		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input type="checkbox"/>	Monthly Fuel Consumption:	
Battery volt Crank 1:	Battery volt Crank 2:	Battery Condition:
Starting hour meter:	Start time:	
Oil pressure start:	Oil Pressure finish:	
Pump Suction Pressure:	Pump Discharge pressure:	
Coolant temperature after 30 minutes running:		
Stop time:	Stop hour meter:	Total time running:
Comments: NO TEST, SYSTEM VALVED OUT.		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p><b>Note: Fuel consumption 27 gal/ h approximately.</b></p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		



Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒

BETA: ☐

Date: 7-7-18

Operator: Michael Hinton

Valve Shed # 1 by Condenser

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

Valve Shed # 2 by Overflow

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Transformer Aux	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	0	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Vlv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Vlv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	0	0	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	✓	7-7	
2	Maintenance Shop Drive Way #8	O/C	✓	7-7	
3	West Side Power Block by VS-3 # 9	O/C	✓	7-7	
4	West Side Power Block by VS-1 # 10	O/C	✓	7-7	
5	West Side Cooling Tower by VS-4 # 11	O/C	✓	7-7	
6	West side Cooling Tower by VS-4 # 12	O/C	✓	7-7	
7	N.W. Corner Chemical Storage #1	O/C	✓	7-7	
8	N.E. Corner Chemical Storage # 2	O/C	✓	7-7	
9	East Side W.T. by Multimedia Filters # 3	O/C	✓	7-7	
10	East Side W.T. by Multimedia Filters # 5	O/C	✓	7-7	
11	North Side Bldg 10 # 6	O/C	✓	7-7	
12	Between MP-444's and Water Treat # 4	O/C	✓	7-7	
13	West Side Power Block Valve Shed #1	O/C	✓	7-7	

To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 6-29-18		
Operator: Caleb Sowards		*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure:			
Discharge Pressure:			
Pump Suction Pressure:		Pump Discharge pressure:	
Comments: NO test system valved out			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure:			
Start time:			
Pump Suction Pressure:		Pump Discharge pressure:	
Stop time:		Total time running	
Comments: NO test system valved out			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input type="checkbox"/> No <input type="checkbox"/>		Monthly Fuel Consumption:	
Battery volt Crank 1:	Battery volt Crank 2:	Battery Condition:	
Starting hour meter:		Start time:	
Oil pressure start:		Oil Pressure finish:	
Pump Suction Pressure:		Pump Discharge pressure:	
Coolant temperature after 30 minutes running:			
Stop time:		Stop hour meter:	Total time running:
Comments: NO test system valved out			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis)			
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (latest edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p><b>Note: Fuel consumption 27 gal/ h approximately.</b></p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>			

### Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐

Date: 6-30-18

Operator: PHIL TOURGELIS

Valve Shed # 1 by Condenser						
No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	150	O/C	✓	Y N	
2	SG Unit 2 B1-2	150	O/C	✓	Y N	
3	Reheaters B1-3	150	O/C	✓	Y N	
4	Rack 2 West HTF B1-4	150	O/C	✓	Y N	
5	Rack 2 East HTF B1-5	150	O/C	✓	Y N	
6	North Steel Pro B1-6	130	O/C	✓	Y N	
7	HTF Pumps B1-7	150	O/C	✓	Y N	
8	HTF Heaters B1-8	125	O/C	✓	Y N	
9	South Steel Pro B1-9	150	O/C	✓	Y N	
10	Lube Oil B1-10	290	O/C	✓	Y N	
11	Turbine Hose Stations B1-11	0	O/C	✓	Y N	
12	Turbine Bearings B1-12	0	O/C	✓	Y N	

Valve Shed # 2 by Overflow						
No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	135	O/C	✓	Y N	
2	Ullage Area B2-2	110	O/C	✓	Y N	
3	Ullage Structure B2-11	185	O/C	✓	Y N	
4	Rack 1 Middle Area B2-5	165	O/C	✓	Y N	
5	Overflow Tanks B2-9	70	O/C	✓	Y N	
6	Rack 1 South Area B2-6	130	O/C	✓	Y N	
7	Rack 1 West B2-7	170	O/C	✓	Y N	
8	Rack 1 North Area B2-4	150	O/C	✓	Y N	
9	Over flow AFFF B2-8	125	O/C	✓	Y N	
10	Expansion Vessel AFFF B2-3	20	O/C	✓	Y N	

Valve Shed # 3 by Bldg 35 GE Electrical Bldg						
No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Transformer Aux	0	O/C	✓	Y N	
2	Transformer Main	60	O/C	✓	Y N	

Valve Shed # 4 by Cooling Tower West Side						
No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	0	O/C	✓	Y N	

Valve Shed # 5 by Control Bldg 10						
No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	90	O/C	✓	Y N	
2	Offices B4-3	90	O/C	✓	Y N	
3	Electrical Room B4-4	90	O/C	✓	Y N	

Turbine Sprinkler Valves (These are to be locked in the open position)						
No.	System	Locked	Vlv. Pos.	Signage	Locked	Comments
1	Bearing 2	Y N	O/C			
2	Bearing 3	Y N	O/C			
3	Bearing 4	Y N	O/C			
4	Bearing 5	Y N	O/C			

HTF Deluge System Valves (To be Locked in the Open Position)						
No.	System	Locked	Vlv. Pos.	Signage	Locked	Comments
1	MP-201	Y N	O/C			
2	MP-200A	Y N	O/C			
3	MP-200B	Y N	O/C			
4	MP-200C	Y N	O/C			
5	MP-200D	Y N	O/C			

Fire Pump House Deluge System					
No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	150	0	Y X N	

PIV Checks					
No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	X	6/30/18	
2	Maintenance Shop Drive Way #8	O/C	X		
3	West Side Power Block by VS-3 # 9	O/C	X		
4	West Side Power Block by VS-1 # 10	O/C	X	7/3/18	
5	West Side Cooling Tower by VS-4 # 11	O/C*	X		
6	West side Cooling Tower by VS-4 # 12	O/C	X		
7	N.W. Corner Chemical Storage #1	O/C	X	7/3/18	
8	N.E. Corner Chemical Storage # 2	O/C	X		
9	East Side W.T. by Multimedia Filters # 3	O/C	X		
10	East Side W.T. by Multimedia Filters # 5	O/C	X	18	
11	North Side Bldg 10 # 6	O/C	X		
12	Between MP-444's and Water Treat # 4	O/C	X		
13	West Side Power Block Valve Shed #1	O/C	X		

To Be Cycled First Saturday of Every Month				
No.	System	Debris		Comments / Actions
1	Transformer Yard Refuse Check	Y <input checked="" type="checkbox"/> N		

## Fire Pump Weekly Test Log

General Information			
Plant:	Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 6-23-18	
Operator:	Mike Hinton	*To be completed each time unit is operated.	
Reason for running pumps:	Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump			
Pre-start Inspection:	Electrical Feed <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure:			
Discharge Pressure:			
Pump Suction Pressure:		Pump Discharge pressure:	
Comments: * Out of service			
Electric Pump			
Pre-start Inspection:	Electrical Feed <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/>		
Start the pump on pressure drop. Start up pressure:			
Start time:			
Pump Suction Pressure:		Pump Discharge pressure:	
Stop time:		Total time running	
Comments: * Out of service			
Diesel Pump			
Pre-start Inspection:	Coolant <input type="checkbox"/> Oil <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/> Water Jacket Heater <input type="checkbox"/>		
Fuel level > 2/3:	Yes <input type="checkbox"/> No <input type="checkbox"/>	Monthly Fuel Consumption:	
Battery volt Crank 1:	Battery volt Crank 2:	Battery Condition:	
Starting hour meter:		Start time:	
Oil pressure start:		Oil Pressure finish:	
Pump Suction Pressure:		Pump Discharge pressure:	
Coolant temperature after 30 minutes running:			
Stop time:	Stop hour meter:	Total time running:	
Comments: * Out of service			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25- "Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p><b>Note: Fuel consumption 27 gal/ h approximately.</b></p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>			



# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐ Date: 6-22-18 Operator: Erin Nader

## Valve Shed # 1 by Condenser

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	10	✓ O/C	✓	Y ✓ N	
2	SG Unit 2 B1-2	10	✓ O/C	✓	Y ✓ N	
3	Reheaters B1-3	10	✓ O/C	✓	Y ✓ N	
4	Rack 2 West HTF B1-4	15	✓ O/C	✓	Y ✓ N	
5	Rack 2 East HTF B1-5	10	✓ O/C	✓	Y ✓ N	
6	North Steel Pro B1-6	15	✓ O/C	✓	Y ✓ N	
7	HTF Pumps B1-7	5	✓ O/C	✓	Y ✓ N	
8	HTF Heaters B1-8	10	✓ O/C	✓	Y ✓ N	
9	South Steel Pro B1-9	10	✓ O/C	✓	Y ✓ N	
10	Lube Oil B1-10	5	✓ O/C	✓	Y ✓ N	
11	Turbine Hose Stations B1-11	5	✓ O/C	✓	Y ✓ N	
12	Turbine Bearings B1-12	15	✓ O/C	✓	Y ✓ N	

## Valve Shed # 2 by Overflow

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	10	✓ O/C	✓	Y ✓ N	
2	Ullage Area B2-2	25	✓ O/C	✓	Y ✓ N	
3	Ullage Structure B2-11	15	✓ O/C	✓	Y ✓ N	
4	Rack 1 Middle Area B2-5	20	✓ O/C	✓	Y ✓ N	
5	Overflow Tanks B2-9	10	✓ O/C	✓	Y ✓ N	
6	Rack 1 South Area B2-6	20	✓ O/C	✓	Y ✓ N	
7	Rack 1 West B2-7	10	✓ O/C	✓	Y ✓ N	
8	Rack 1 North Area B2-4	15	✓ O/C	✓	Y ✓ N	
9	Overflow AFFF B2-8	20	✓ O/C	✓	Y ✓ N	
10	Expansion Vessel AFFF B2-3	20	✓ O/C	✓	Y ✓ N	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Transformer Aux	15	✓ O/C	✓	Y ✓ N	
2	Transformer Main	5	✓ O/C	✓	Y ✓ N	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	20	✓ O/C	✓	Y ✓ N	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	10	✓ O/C	✓	Y ✓ N	
2	Offices B4-3	10	✓ O/C	✓	Y ✓ N	
3	Electrical Room B4-4	10	✓ O/C	✓	Y ✓ N	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Vlv. Pos.	Comments
1	Bearing 2	Y ✓ N	✓ O/C	
2	Bearing 3	Y ✓ N	✓ O/C	
3	Bearing 4	Y ✓ N	✓ O/C	
4	Bearing 5	Y ✓ N	✓ O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Vlv. Pos.	Comments
1	MP-201	Y ✓ N	✓ O/C	
2	MP-200A	Y ✓ N	✓ O/C	
3	MP-200B	Y ✓ N	✓ O/C	
4	MP-200C	Y ✓ N	✓ O/C	
5	MP-200D	Y ✓ N	✓ O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	150	✓	Y ✓ N X	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	✓ O/C	X		
2	Maintenance Shop Drive Way #8	✓ O/C	X		
3	West Side Power Block by VS-3 # 9	✓ O/C	X		
4	West Side Power Block by VS-1 # 10	✓ O/C	X		
5	West Side Cooling Tower by VS-4 # 11	✓ O/C	X		
6	West side Cooling Tower by VS-4 # 12	✓ O/C	X		
7	N.W. Corner Chemical Storage #1	✓ O/C	X		
8	N.E. Corner Chemical Storage # 2	✓ O/C	X		
9	East Side W.T. by Multimedia Filters # 3	✓ O/C	X		
10	East Side W.T. by Multimedia Filters # 5	✓ O/C	X		
11	North Side Bldg 10 # 6	✓ O/C	X		
12	Between MP-444's and Water Treat # 4	✓ O/C	X		
13	West Side Power Block Valve Shed #1	✓ O/C	X		

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input type="checkbox"/> N <input type="checkbox"/>	



Mojave Solar LLC

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 6-17-18	
Operator: Efraim Morales	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure:		
Discharge Pressure:		
Pump Suction Pressure: Pump Discharge pressure:		
Comments: fire system off with loto in place		
Electric Pump		
Pre-start Inspection: Electrical Feed <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/>		
Start the pump on pressure drop. Start up pressure:		
Start time:		
Pump Suction Pressure: Pump Discharge pressure:		
Stop time: Total time running		
Comments: fire system off with loto in place		
Diesel Pump		
Pre-start Inspection: Coolant <input type="checkbox"/> Oil <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/> Water Jacket Heater <input type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input type="checkbox"/> Monthly Fuel Consumption:		
Battery volt Crank 1: Battery volt Crank 2:		Battery Condition:
Starting hour meter:		Start time:
Oil pressure start:		Oil Pressure finish:
Pump Suction Pressure: Pump Discharge pressure:		
Coolant temperature after 30 minutes running:		
Stop time: Stop hour meter:		Total time running:
Comments: fire system off with loto in place		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p><b>Note: Fuel consumption 27 gal/ h approximately.</b></p> <p>There is no limit on engine operation for emergency use. (Title 17 CCR 93115.6(a)(4))</p>		

Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐

Date: 6-17-18

Operator Phil Tourtellus

Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	0	O/C	✓	Y ✓ N	
2	SG Unit 2 B1-2	145	O/C	✓	Y ✓ N	
3	Reheaters B1-3	150	O/C	✓	Y ✓ N	
4	Rack 2 West HTF B1-4	0	O/C	✓	Y ✓ N	
5	Rack 2 East HTF B1-5	150	O/C	✓	Y ✓ N	
6	North Steel Pro B1-6	175	O/C	✓	Y ✓ N	
7	HTF Pumps B1-7	0	O/C	✓	Y ✓ N	
8	HTF Heaters B1-8	120	O/C	✓	Y ✓ N	
9	South Steel Pro B1-9	160	O/C	✓	Y ✓ N	
10	Lube Oil B1-10	100	O/C	✓	Y ✓ N	
11	Turbine Hose Stations B1-11	0	O/C	✓	Y ✓ N	
12	Turbine Bearings B1-12	0	O/C	✓	Y ✓ N	

Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	140	O/C	✓	Y ✓ N	
2	Ullage Area B2-2	130	O/C	✓	Y ✓ N	
3	Ullage Structure B2-11	140	O/C	✓	Y ✓ N	
4	Rack 1 Middle Area B2-5	170	O/C	✓	Y ✓ N	
5	Overflow Tanks B2-9	95	O/C	✓	Y ✓ N	
6	Rack 1 South Area B2-6	150	O/C	✓	Y ✓ N	
7	Rack 1 West B2-7	175	O/C	✓	Y ✓ N	
8	Rack 1 North Area B2-4	135	O/C	✓	Y ✓ N	
9	Over flow AFFF B2-8	175	O/C	✓	Y ✓ N	
10	Expansion Vessel AFFF B2-3	0	O/C	✓	Y ✓ N	

Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	0	O/C	✓	Y ✓ N	
2	Transformer Main	0	O/C	✓	Y ✓ N	

Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	0	O/C	✓	Y ✓ N	

Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	90	O/C	✓	Y ✓ N	
2	Offices B4-3	90	O/C	✓	Y ✓ N	
3	Electrical Room B4-4	90	O/C	✓	Y ✓ N	

Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y ✓ N	O/C	
2	Bearing 3	Y ✓ N	O/C	
3	Bearing 4	Y ✓ N	O/C	
4	Bearing 5	Y ✓ N	O/C	

HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y ✓ N	O/C	
2	MP-200A	Y ✓ N	O/C	
3	MP-200B	Y ✓ N	O/C	
4	MP-200C	Y ✓ N	O/C	
5	MP-200D	Y ✓ N	O/C	

Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge			Y - N	

PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	2	6	
2	Maintenance Shop Drive Way #8	O/C	2	6	
3	West Side Power Block by VS-3 # 9	O/C	2	2	
4	West Side Power Block by VS-1 # 10	O/C	2	2	
5	West Side Cooling Tower by VS-4 # 11	O/C	2	2	
6	West side Cooling Tower by VS-4 # 12	O/C	2	2	
7	N.W. Corner Chemical Storage #1	O/C	2	2	
8	N.E. Corner Chemical Storage # 2	O/C	2	2	
9	East Side W.T. by Multimedia Filters # 3	O/C	2	2	
10	East Side W.T. by Multimedia Filters # 5	O/C	2	2	
11	North Side Bldg 10 # 6	O/C	2	2	
12	Between MP-444's and Water Treat # 4	O/C	2	2	
13	West Side Power Block Valve Shed #1	O/C	2	2	

To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y ✓ N	

## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input checked="" type="checkbox"/>	Beta <input type="checkbox"/>	Date: 6-10-18	
Operator: Emin Markis		<b>*To be completed each time unit is operated.</b>	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure:			
Discharge Pressure:			
Pump Suction Pressure:		Pump Discharge pressure:	
Comments: * Fire System down due to leak			
Electric Pump			
Pre-start Inspection: Electrical Feed <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/>			
Start the pump on pressure drop. Start up pressure:			
Start time:			
Pump Suction Pressure:		Pump Discharge pressure:	
Stop time:		Total time running	
Comments: * Breaker off, discharge closed			
Diesel Pump			
Pre-start Inspection: Coolant <input type="checkbox"/> Oil <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/> Water Jacket Heater <input type="checkbox"/>			
Fuel level > 2/3: Yes <input type="checkbox"/> No <input type="checkbox"/>		Monthly Fuel Consumption:	
Battery volt Crank 1:	Battery volt Crank 2:	Battery Condition:	
Starting hour meter:		Start time:	
Oil pressure start:		Oil Pressure finish:	
Pump Suction Pressure:		Pump Discharge pressure:	
Coolant temperature after 30 minutes running:			
Stop time:		Stop hour meter:	Total time running:
Comments: * do not operate tag on control box, discharge secure			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25- "Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p><b>Note: Fuel consumption 27 gal/ h approximately.</b></p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>			



# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐

Date: 6-10-18

Operator: Phil Torgersen

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	0	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	150	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	150	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	0	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	150	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	135	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	0	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	125	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	100	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	0	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	0	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	140	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	150	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	200	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	175	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	125	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	175	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	175	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	150	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	0	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	0	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	0	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	90	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	90	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	90	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (to be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	130	O	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	X	6-2	
2	Maintenance Shop Drive Way #8	O/C	X	6-2	
3	West Side Power Block by VS-3 # 9	O/C	X	6-2	
4	West Side Power Block by VS-1 # 10	O/C	X	6-2	
5	West Side Cooling Tower by VS-4 # 11	O/C	X	6-2	
6	West side Cooling Tower by VS-4 # 12	O/C	X	6-2	
7	N.W. Corner Chemical Storage #1	O/C	X	6-2	
8	N.E. Corner Chemical Storage # 2	O/C	X	6-2	
9	East Side W.T. by Multimedia Filters # 3	O/C	X	6-2	
10	East Side W.T. by Multimedia Filters # 5	O/C	X	6-2	
11	North Side Bldg 10 # 6	O/C	X	6-2	
12	Between MP-444's and Water Treat # 4	O/C	X	6-2	
13	West Side Power Block Valve Shed #1	O/C	X	6-2	

To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information			
Plant:	Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date:	6-1-18
Operator:	Michael Hinton	*To be completed each time unit is operated.	
Reason for running pumps:	Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump			
Pre-start Inspection:	Electrical Feed <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure:			
Discharge Pressure:			
Pump Suction Pressure:	Pump Discharge pressure:		
Comments: * As per CRO's request didn't run pumps.			
Electric Pump			
Pre-start Inspection:	Electrical Feed <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/>		
Start the pump on pressure drop. Start up pressure:			
Start time:			
Pump Suction Pressure:	Pump Discharge pressure:		
Stop time:	Total time running		
Comments: * Breaker off, discharge secure.			
Diesel Pump			
Pre-start Inspection:	Coolant <input type="checkbox"/> Oil <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/> Water Jacket Heater <input type="checkbox"/>		
Fuel level > 2/3:	Yes <input type="checkbox"/> No <input type="checkbox"/>	Monthly Fuel Consumption:	
Battery volt Crank 1:	Battery volt Crank 2:	Battery Condition:	
Starting hour meter:		Start time:	
Oil pressure start:		Oil Pressure finish:	
Pump Suction Pressure:	Pump Discharge pressure:		
Coolant temperature after 30 minutes running:			
Stop time:	Stop hour meter:	Total time running:	
Comments: * "Do not operate" tag on Control Box, discharge secure.			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 "Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (latest edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p><b>Note: Fuel consumption 27 gal/ h approximately.</b></p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>			

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA ☐

Date: 6-2-18

Operator Mike Hinton

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	25	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	25	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	25	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	25	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	30	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	25	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	25	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	25	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	25	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	25	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	25	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	30	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	30	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	30	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	20	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	100	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	100	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	100	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	130	0	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	OC	✓	6-2	
2	Maintenance Shop Drive Way #8	OC	✓		
3	West Side Power Block by VS-3 # 9	OC	✓		
4	West Side Power Block by VS-1 # 10	OC	✓		
5	West Side Cooling Tower by VS-4 # 11	OC	✓		
6	West side Cooling Tower by VS-4 # 12	OC	✓		
7	N.W. Corner Chemical Storage #1	OC	✓		
8	N.E. Corner Chemical Storage # 2	OC	✓		
9	East Side W.T. by Multimedia Filters # 3	OC	✓		
10	East Side W.T. by Multimedia Filters # 5	OC	✓		
11	North Side Bldg 10 # 6	OC	✓		
12	Between MP-444's and Water Treat # 4	OC	No		

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	



Mojave Solar LLC

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 5-28-18	
Operator: Michael Hinton	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure:		
Discharge Pressure:		
Pump Suction Pressure:	Pump Discharge pressure:	
Comments: * Did not test any pumps.		
Electric Pump		
Pre-start Inspection: Electrical Feed <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/>		
Start the pump on pressure drop. Start up pressure:		
Start time:		
Pump Suction Pressure:	Pump Discharge pressure:	
Stop time:	Total time running	
Comments: * Breaker open discharge secure.		
Diesel Pump		
Pre-start Inspection: Coolant <input type="checkbox"/> Oil <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/> Water Jacket Heater <input type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input type="checkbox"/>	Monthly Fuel Consumption:	
Battery volt Crank 1:	Battery volt Crank 2:	Battery Condition:
Starting hour meter:	Start time:	
Oil pressure start:	Oil Pressure finish:	
Pump Suction Pressure:	Pump Discharge pressure:	
Coolant temperature after 30 minutes running:		
Stop time:	Stop hour meter:	Total time running:
Comments: * Do not operate tag on control box. discharge secure.		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p><b>Note: Fuel consumption 27 gal/ h approximately.</b></p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		



# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒

BETA: ☐

Date: 5/27/18

Operator: Collin A.

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	40	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	40	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	40	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	40	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	40	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	40	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	40	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	40	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	40	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	40	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	40	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	40	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	40	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	40	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	10	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	100	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	100	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	100	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	130	0	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C			
2	Maintenance Shop Drive Way #8	O/C			
3	West Side Power Block by VS-3 # 9	O/C			
4	West Side Power Block by VS-1 # 10	O/C			
5	West Side Cooling Tower by VS-4 # 11	O/C			
6	West side Cooling Tower by VS-4 # 12	O/C			
7	N.W. Corner Chemical Storage #1	O/C			
8	N.E. Corner Chemical Storage # 2	O/C			
9	East Side W.T. by Multimedia Filters # 3	O/C			
10	East Side W.T. by Multimedia Filters # 5	O/C			
11	North Side Bldg 10 # 6	O/C			
12	Between MP-444's and Water Treat # 4	O/C			

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input checked="" type="checkbox"/>	Beta <input type="checkbox"/>	Date: 5-20-18	
Operator: Michael Hinton		*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure:			
Discharge Pressure:			
Pump Suction Pressure:		Pump Discharge pressure:	
Comments: <del>As</del> Fire pumps valved out & breakers off. As per CROS Request I Didn't run pumps.			
Electric Pump			
Pre-start Inspection: Electrical Feed <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/>			
Start the pump on pressure drop. Start up pressure:			
Start time:			
Pump Suction Pressure:		Pump Discharge pressure:	
p time:		Total time running	
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input type="checkbox"/> Oil <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/> Water Jacket Heater <input type="checkbox"/>			
Fuel level > 2/3: Yes <input type="checkbox"/> No <input type="checkbox"/>		Monthly Fuel Consumption:	
Battery volt Crank 1:	Battery volt Crank 2:	Battery Condition:	
Starting hour meter:		Start time:	
Oil pressure start:		Oil Pressure finish:	
Pump Suction Pressure:		Pump Discharge pressure:	
Coolant temperature after 30 minutes running:			
Stop time:		Stop hour meter:	Total time running:
Comments:			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>			

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐

Date: 5/20/18

Operator: Colin Anderson

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	30	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	35	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	150	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	130	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	35	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	180	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	150	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	130	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	180	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	35	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	35	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	35	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	75	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	115	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	25	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	100	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	100	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	100	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	175	O	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C			
2	Maintenance Shop Drive Way #8	O/C			
3	West Side Power Block by VS-3 # 9	O/C			
4	West Side Power Block by VS-1 # 10	O/C			
5	West Side Cooling Tower by VS-4 # 11	O/C			
6	West side Cooling Tower by VS-4 # 12	O/C			
7	N.W. Corner Chemical Storage #1	O/C			
8	N.E. Corner Chemical Storage # 2	O/C			
9	East Side W T. by Multimedia Filters # 3	O/C			
10	East Side W T. by Multimedia Filters # 5	O/C			
11	North Side Bldg 10 # 6	O/C			
12	Between MP-444's and Water Treat # 4	O/C			

## To Be Cycled First Saturday of Every Month

No.	System	Defris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 5/13/18	
Operator: Collin Anderson	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure:		
Discharge Pressure:		
Pump Suction Pressure:	Pump Discharge pressure:	
Comments: Jockey Pump currently running due to leak.		
Electric Pump		
Pre-start Inspection: Electrical Feed <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/>		
Start the pump on pressure drop. Start up pressure:		
Start time:		
Pump Suction Pressure:	Pump Discharge pressure:	
Stop time:	Total time running	
Comments: Cannot test due to leak.		
Diesel Pump		
Pre-start Inspection: Coolant <input type="checkbox"/> Oil <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/> Water Jacket Heater <input type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input type="checkbox"/>	Monthly Fuel Consumption:	
Battery volt Crank 1:	Battery volt Crank 2:	Battery Condition:
Starting hour meter:	Start time:	
Oil pressure start:	Oil Pressure finish:	
Pump Suction Pressure:	Pump Discharge pressure:	
Coolant temperature after 30 minutes running:		
Stop time:	Stop hour meter:	Total time running:
Comments: Cannot test due to leak.		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		



# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐ Date: 5-12-18 Operator: PHIL CORRELLS

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	180	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	180	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	180	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	180	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	180	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	180	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	180	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	180	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	180	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked In the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	170	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	X	5-3	
2	Maintenance Shop Drive Way #8	O/C	X	5-3	
3	West Side Power Block by VS-3 # 9	O/C	X	5-3	
4	West Side Power Block by VS-1 # 10	O/C	X	5-3	
5	West Side Cooling Tower by VS-4 # 11	O/C	X	5-3	
6	West side Cooling Tower by VS-4 # 12	O/C	X	5-3	
7	N.W. Corner Chemical Storage #1	O/C	X	5-3	
8	N.E. Corner Chemical Storage # 2	O/C	X	5-3	
9	East Side W.T. by Multimedia Filters # 3	O/C	X	5-3	
10	East Side W.T. by Multimedia Filters # 5	O/C	X	5-3	
11	North Side Bldg 10 # 6	O/C	X	5-3	
12	Between MP-444's and Water Treat # 4	O/C	X	5-3	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input checked="" type="checkbox"/>	Beta <input type="checkbox"/>	Date: 5/5/18	
Operator: Collin Anderson		*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: 155			
Discharge Pressure: N/A			
Pump Suction Pressure: N/A		Pump Discharge pressure: N/A	
Comments: No applicable gauges			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: 145			
Start time: 1930			
Pump Suction Pressure: N/A		Pump Discharge pressure: 150	
Stop time: 1932		Total time running 2 minutes	
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Monthly Fuel Consumption:	
Battery volt Crank 1:	Battery volt Crank 2: <input checked="" type="checkbox"/>	Battery Condition: Good	
Starting hour meter: 37.5		Start time: 1915	
Oil pressure start: 67		Oil Pressure finish: 41	
Pump Suction Pressure:		Pump Discharge pressure: 150	
Coolant temperature after 30 minutes running:			
Stop time: 2015	Stop hour meter: 36.2	Total time running: 30 minutes	
Comments:			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (latest edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.			
Note: Fuel consumption 27 gal/ h approximately.			
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]			

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐

Date: 5-5-18

Operator: Mike Hindon

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked In the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C			
2	Maintenance Shop Drive Way #8	O/C			
3	West Side Power Block by VS-3 # 9	O/C			
4	West Side Power Block by VS-1 # 10	O/C			
5	West Side Cooling Tower by VS-4 # 11	O/C			
6	West side Cooling Tower by VS-4 # 12	O/C			
7	N.W. Corner Chemical Storage #1	O/C			
8	N.E. Corner Chemical Storage # 2	O/C			
9	East Side W.T. by Multimedia Filters # 3	O/C			
10	East Side W.T. by Multimedia Filters # 5	O/C			
11	North Side Bldg 10 # 6	O/C			
12	Between MP-444's and Water Treat # 4	O/C			

## To Be Cycled First Saturday of Every Month

No.	System	Debts	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input type="checkbox"/> No <input type="checkbox"/>	

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐

Date: 4-28-18

Operator PHIL TOURKELIS

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	200	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	200	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	200	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	200	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	200	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	200	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	200	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	200	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	200	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	200	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	OPEN	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	X	4-1-18	
2	Maintenance Shop Drive Way #8	O/C	X	4-1-18	
3	West Side Power Block by VS-3 # 9	O/C	X	4-1-18	
4	West Side Power Block by VS-1 # 10	O/C	X	4-1-18	
5	West Side Cooling Tower by VS-4 # 11	O/C	X	4-1-18	
6	West side Cooling Tower by VS-4 # 12	O/C	X	4-1-18	
7	N W Corner Chemical Storage #1	O/C	X	4-1-18	
8	N E Corner Chemical Storage # 2	O/C	X	4-1-18	
9	East Side W T. by Multimedia Filters # 3	O/C	X	4-1-18	
10	East Side W T. by Multimedia Filters # 5	O/C	X	4-1-18	
11	North Side Bldg 10 # 6	O/C	X	4-1-18	
12	Between MP-444's and Water Treat # 4	O/C	X	4-1-18	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	



## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 4-28-18		
Operator: PHIL TOULBES	*To be completed each time unit is operated.		
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: 155			
Discharge Pressure: 165			
Pump Suction Pressure: 20	Pump Discharge pressure: 165		
Comments:			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: 145			
Start time: 0235			
Pump Suction Pressure: 20	Pump Discharge pressure: 155		
Stop time: 0245	Total time running 10 mins		
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 50%	Monthly Fuel Consumption: N/A		
Battery volt Crank 1: 26.1 Battery volt Crank 2: 26.6	Battery Condition: GOOD		
Starting hour meter: 35.3	Start time: 0230		
Oil pressure start: 66	Oil Pressure finish: 41		
Pump Suction Pressure: 20	Pump Discharge pressure: 155		
Coolant temperature after 30 minutes running: 187			
Stop time: 0228	Stop hour meter: 35.7	Total time running: 28 mins	
Comments: AIR FILTER ALARM. NEEDS REPLACING			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (latest edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.			
Note: Fuel consumption 27 gal/ h approximately.			
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]			

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 4-22-18	
Operator: Caleb Sowards	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 165		
Pump Suction Pressure: 5		Pump Discharge pressure: 168
Comments: pressure gage broken		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 2448		
Pump Suction Pressure: 5		Pump Discharge pressure: 163
Stop time: 2458		Total time running 10 min
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Monthly Fuel Consumption: 40.5
Battery volt Crank 1: 26	Battery volt Crank 2: 26	Battery Condition: good
Starting hour meter: 349		Start time: 0100
Oil pressure start: 66		Oil Pressure finish: 40
Pump Suction Pressure: 0		Pump Discharge pressure: 155
Coolant temperature after 30 minutes running: 187		
Stop time: 0130	Stop hour meter: 35.3	Total time running: 30 min
Comments: still leaks oil from timing chain housing		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis)		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p><b>Note: Fuel consumption 27 gal/ h approximately.</b></p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐ Date: 4-22-18 Operator: Caleb Souwalsky

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	165	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	165	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	165	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	165	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	165	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	180	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	180	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	220	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	195	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	185	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	195	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	200	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	180	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	180	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	100	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	165	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	175	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	170	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	175	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C <input checked="" type="checkbox"/>	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C <input checked="" type="checkbox"/>	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C <input checked="" type="checkbox"/>	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C <input checked="" type="checkbox"/>	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C <input checked="" type="checkbox"/>	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C <input checked="" type="checkbox"/>	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C <input checked="" type="checkbox"/>	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C <input checked="" type="checkbox"/>	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C <input checked="" type="checkbox"/>	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	185	<input checked="" type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
2	Maintenance Shop Drive Way #8	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
3	West Side Power Block by VS-3 # 9	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
4	West Side Power Block by VS-1 # 10	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
5	West Side Cooling Tower by VS-4 # 11	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
6	West side Cooling Tower by VS-4 # 12	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7	N.W. Corner Chemical Storage #1	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
8	N.E. Corner Chemical Storage # 2	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
9	East Side W.T. by Multimedia Filters # 3	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
10	East Side W.T. by Multimedia Filters # 5	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
11	North Side Bldg 10 # 6	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
12	Between MP-444's and Water Treat # 4	O/C <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information	
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 7-14-18
Operator: Caleb Sowards	*To be completed each time unit is operated.
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>	
Jockey Electric Pump	
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>	
Check the jockey pump on pressure drop. Start up pressure: 155	
Discharge Pressure: 168	
Pump Suction Pressure: 5	Pump Discharge pressure: 168
Comments:	
Electric Pump	
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>	
Start the pump on pressure drop. Start up pressure: 145	
Start time: 1110	
Pump Suction Pressure: 5	Pump Discharge pressure: 163
Stop time: 1120	Total time running 10 min
Comments:	
Diesel Pump	
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>	
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 1/2	Monthly Fuel Consumption: 27 gal
Battery volt Crank 1: 26 Battery volt Crank 2: 26	Battery Condition: good
Starting hour meter: 34.5	Start time: 1125
Oil pressure start: 60	Oil Pressure finish: 40
Pump Suction Pressure: 0	Pump Discharge pressure: 155
Coolant temperature after 30 minutes running: 187	
Stop time: 1155	Stop hour meter: <del>34.9</del> 34.9 Total time running: 30 min
Comments: Battery 1 failure / still has oil leak on timing gear cover	
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).	
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25- "Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (latest edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.	
Note: Fuel consumption 27 gal/ h approximately.	
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]	



## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 4-5-18		
Operator: Phil Toulgeus	*To be completed each time unit is operated.		
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: 155			
Discharge Pressure: 165			
Pump Suction Pressure: 15		Pump Discharge pressure: 165	
Comments:			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: 145			
Start time: 0600			
Pump Suction Pressure: 15		Pump Discharge pressure: 160	
Stop time: 0610		Total time running 10 mins	
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 50%		Monthly Fuel Consumption:	
Battery volt Crank 1: 28.7		Battery Condition: Good	
Starting hour meter: 34.1		Start time: 16:05	
Oil pressure start: 72		Oil Pressure finish: 41	
Pump Suction Pressure: 20		Pump Discharge pressure: 150	
Coolant temperature after 30 minutes running: 189			
Stop time: 1635		Total time running: 30 mins	
Comments:			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (latest edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.			
Note: Fuel consumption 27 gal/ h approximately.			
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]			

## SUPPRESSION SYSTEM FIRE WATCH LOG

Assigned Area: ALPHA POWER BLOCK Date: 4-5-18

Fire-Watch: PHIL TOURGELS Initials: PT

Fire Watch Times: Started 11:00 Ended 16:00

Fire watch personnel must perform continuous tours such that each system in their assigned area is checked at not less than 30-minute intervals. The first entry in this log must be made within 30 minutes of the start of the fire watch and every 30 minutes thereafter. Times must be recorded using the 24-hour clock and initialed. Any problems found during the fire watch must be documented (along with the time found and initialed) and reported to the control room for immediate correction. A fire extinguisher is required to be staged with fire watch personnel.

I certify (by my initials below) that I completed a tour of my entire assigned area at the following times:							
Time Tour Completed	Initials		Time Tour Completed	Initials		Time Tour Completed	Initials
11:00	PT						
11:30	PT						
12:00	PT						
12:30	PT						
13:00	PT						
13:30	PT						
14:00	PT						
14:30	PT						
15:00	PT						
15:30	PT						
16:00	PT						
16:30	—						
17:00	—						
17:30	—						

Problems noted during fire watch:

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐ Date: 4-6-18 Operator PHIL T

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	220	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	220	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	220	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	220	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	220	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	220	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	220	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	220	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	220	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	220	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	120	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	O	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	X	4-1-18	
2	Maintenance Shop Drive Way #8	O/C	X	4-1-18	
3	West Side Power Block by VS-3 # 9	O/C	X	4-1-18	
4	West Side Power Block by VS-1 # 10	O/C	X	4-1-18	
5	West Side Cooling Tower by VS-4 # 11	O/C	X	4-1-18	
6	West side Cooling Tower by VS-4 # 12	O/C	X	4-1-18	
7	N.W. Corner Chemical Storage #1	O/C	X	4-1-18	
8	N.E. Corner Chemical Storage # 2	O/C	X	4-1-18	
9	East Side W T. by Multimedia Filters # 3	O/C	X	4-1-18	
10	East Side W T. by Multimedia Filters # 5	O/C	X	4-1-18	
11	North Side Bldg 10 # 6	O/C	X	4-1-18	
12	Between MP-444's and Water Treat # 4	O/C	X	4-1-18	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 4/1/18	
Operator: COLLIN ANDERSON	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 165		
Pump Suction Pressure: N/A	Pump Discharge pressure: 165	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 1923		
Pump Suction Pressure: N/A	Pump Discharge pressure: 165	
Stop time: 1925	Total time running 2 minutes	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Monthly Fuel Consumption:	
Battery volt Crank 1: Battery volt Crank 2: 2	Battery Condition: Good	
Starting hour meter: 33.6	Start time: 1926	
Oil pressure start: 66	Oil Pressure finish: 41	
Pump Suction Pressure: N/A	Pump Discharge pressure: 150	
Coolant temperature after 30 minutes running: 189		
Stop time: 1956	Stop hour meter: 34	Total time running: 30 minutes
Comments:		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p><b>Note: Fuel consumption 27 gal/ h approximately.</b></p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		



## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 03-25-18		
Operator: Mike Hinton	*To be completed each time unit is operated.		
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: 155			
Discharge Pressure: 165			
Pump Suction Pressure: N/A	Pump Discharge pressure: 165		
Comments:			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: 145			
Start time: 1802			
Pump Suction Pressure: 16	Pump Discharge pressure: 160		
Stop time: 1812	Total time running 10 mins		
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Monthly Fuel Consumption:		
Battery volt Crank 1: 27.3 Battery volt Crank 2: 27.8	Battery Condition: Good		
Starting hour meter: 33.1	Start time: 1815		
Oil pressure start: 64	Oil Pressure finish: 43		
Pump Suction Pressure: 10	Pump Discharge pressure: 160		
Coolant temperature after 30 minutes running: 180			
Stop time: 1845	Stop hour meter: 33.5	Total time running: 30 mins	
Comments:			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (latest edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>			

## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 3-18-18		
Operator: Mike Hinton		*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: 155			
Discharge Pressure: 160			
Pump Suction Pressure: N/A		Pump Discharge pressure: 160	
Comments:			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: 144			
Start time: 1840			
Pump Suction Pressure: 18		Pump Discharge pressure: 160	
Stop time: 1850		Total time running 10 mins	
Comments: Had to manually shut off, 10 min timer not on.			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Monthly Fuel Consumption:		
Battery volt Crank 1: 27.2 Battery volt Crank 2: 27.3	Battery Condition: Good		
Starting hour meter: 32.7	Start time: Good 1855		
Oil pressure start: 59	Oil Pressure finish: 45		
Pump Suction Pressure: 12		Pump Discharge pressure: 160	
Coolant temperature after 30 minutes running: 185			
Stop time: 1925	Stop hour meter: 33.1	Total time running: 30 mins	
Comments: Had to manually stop, 30 min timer not on.			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (latest edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p><b>Note: Fuel consumption 27 gal/ h approximately.</b></p> <p>There is no limit on engine operation for emergency use. (Title 17 CCR 93115 6(a)(4))</p>			

# ABENGOA

Mojave Solar LLC

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 2-2-18	
Operator: Phil	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 165		
Pump Suction Pressure: 20 Pump Discharge pressure: 165		
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 16:00		
Pump Suction Pressure: 20 Pump Discharge pressure: 155		
Stop time: 16:10 Total time running 10mins		
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 1/2 Monthly Fuel Consumption: 54 gal		
Battery volt Crank 1: 26.7 Battery volt Crank 2: 28.7 Battery Condition: Good		
Starting hour meter: 31.6 Start time: 16:15		
Oil pressure start: 60 Oil Pressure finish: 43		
Pump Suction Pressure: 20 Pump Discharge pressure: 150		
Coolant temperature after 30 minutes running: 183		
Stop time: 16:45 Stop hour meter: 32.1 Total time running: 30mins		
Comments: WONT START ON BATT #1 FUEL 1/2 TANK		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p><b>Note: Fuel consumption 27 gal/ h approximately.</b></p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐ Date: 4-14-18 Operator: E. Rain

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	155	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	180	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	185	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	185	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	180	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	185	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	185	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	180	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	180	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	180	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	180	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	155	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	155	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	175	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	175	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	175	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	175	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	✓ O/C	X		
2	Maintenance Shop Drive Way #8	✓ O/C	X		
3	West Side Power Block by VS-3 # 9	✓ O/C	X		no lock
4	West Side Power Block by VS-1 # 10	✓ O/C	X		
5	West Side Cooling Tower by VS-4 # 11	✓ O/C	X		
6	West side Cooling Tower by VS-4 # 12	✓ O/C	X		
7	N.W. Corner Chemical Storage #1	✓ O/C	X		
8	N.E. Corner Chemical Storage # 2	✓ O/C	X		
9	East Side W.T. by Multimedia Filters # 3	✓ O/C	X		
10	East Side W.T. by Multimedia Filters # 5	✓ O/C	X		
11	North Side Bldg 10 # 6	✓ O/C	X		
12	Between MP-444's and Water Treat # 4	✓ O/C	X		

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input type="checkbox"/> No <input type="checkbox"/>	



## Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐

Date: 3/25/18

Operator: Anderson

### Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

### Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

### Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	150	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

### Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

### Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

### Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

### HTF Deluge System Valves (To be Locked In the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

### Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	160	O	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

### PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C			
2	Maintenance Shop Drive Way #8	O/C			
3	West Side Power Block by VS-3 # 9	O/C			
4	West Side Power Block by VS-1 # 10	O/C			
5	West Side Cooling Tower by VS-4 # 11	O/C			
6	West side Cooling Tower by VS-4 # 12	O/C			
7	N.W. Corner Chemical Storage #1	O/C			
8	N.E. Corner Chemical Storage # 2	O/C			
9	East Side W.T. by Multimedia Filters # 3	O/C			
10	East Side W.T. by Multimedia Filters # 5	O/C			
11	North Side Bldg 10 # 6	O/C			
12	Between MP-444's and Water Treat # 4	O/C			

### To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐ Date: 3/17/18 Operator Anderson

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	155	O/C	✓	Y ✓ N	
2	SG Unit 2 B1-2	155	O/C	✓	Y ✓ N	
3	Reheaters B1-3	155	O/C	✓	Y ✓ N	
4	Rack 2 West HTF B1-4	155	O/C	✓	Y ✓ N	
5	Rack 2 East HTF B1-5	155	O/C	✓	Y ✓ N	
6	North Steel Pro B1-6	155	O/C	✓	Y ✓ N	
7	HTF Pumps B1-7	155	O/C	✓	Y ✓ N	
8	HTF Heaters B1-8	155	O/C	✓	Y ✓ N	
9	South Steel Pro B1-9	155	O/C	✓	Y ✓ N	
10	Lube Oil B1-10	155	O/C	✓	Y ✓ N	
11	Turbine Hose Stations B1-11	155	O/C	✓	Y ✓ N	
12	Turbine Bearings B1-12	155	O/C	✓	Y ✓ N	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	175	O/C	✓	Y ✓ N	
2	Ullage Area B2-2	175	O/C	✓	Y ✓ N	
3	Ullage Structure B2-11	175	O/C	✓	Y ✓ N	
4	Rack 1 Middle Area B2-5	175	O/C	✓	Y ✓ N	
5	Overflow Tanks B2-9	175	O/C	✓	Y ✓ N	
6	Rack 1 South Area B2-6	175	O/C	✓	Y ✓ N	
7	Rack 1 West B2-7	175	O/C	✓	Y ✓ N	
8	Rack 1 North Area B2-4	175	O/C	✓	Y ✓ N	
9	Over flow AFFF B2-8	175	O/C	✓	Y ✓ N	
10	Expansion Vessel AFFF B2-3	175	O/C	✓	Y ✓ N	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	O/C	✓	Y ✓ N	
2	Transformer Main	155	O/C	✓	Y ✓ N	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	O/C	✓	Y ✓ N	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	155	O/C	✓	Y ✓ N	
2	Offices B4-3	155	O/C	✓	Y ✓ N	
3	Electrical Room B4-4	155	O/C	✓	Y ✓ N	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	175	0	Y ✓ N	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C			
2	Maintenance Shop Drive Way #8	O/C			
3	West Side Power Block by VS-3 # 9	O/C			
4	West Side Power Block by VS-1 # 10	O/C			
5	West Side Cooling Tower by VS-4 # 11	O/C			
6	West side Cooling Tower by VS-4 # 12	O/C			
7	N.W. Corner Chemical Storage #1	O/C			
8	N.E. Corner Chemical Storage # 2	O/C			
9	East Side W.T. by Multimedia Filters # 3	O/C			
10	East Side W.T. by Multimedia Filters # 5	O/C			
11	North Side Bldg 10 # 6	O/C			
12	Between MP-444's and Water Treat # 4	O/C			

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐ Date: 3-9-18 Operator: Mikie Hinton

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	O/C	✓	Y ✓ N	
2	SG Unit 2 B1-2	160	O/C	✓	Y ✓ N	
3	Reheaters B1-3	163	O/C	✓	Y ✓ N	
4	Rack 2 West HTF B1-4	163	O/C	✓	Y ✓ N	
5	Rack 2 East HTF B1-5	163	O/C	✓	Y ✓ N	
6	North Steel Pro B1-6	160	O/C	✓	Y ✓ N	
7	HTF Pumps B1-7	160	O/C	✓	Y ✓ N	
8	HTF Heaters B1-8	160	O/C	✓	Y ✓ N	
9	South Steel Pro B1-9	163	O/C	✓	Y ✓ N	
10	Lube Oil B1-10	160	O/C	✓	Y ✓ N	
11	Turbine Hose Stations B1-11	160	O/C	✓	Y ✓ N	
12	Turbine Bearings B1-12	160	O/C	✓	Y ✓ N	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	163	O/C	✓	Y ✓ N	
2	Ullage Area B2-2	160	O/C	✓	Y ✓ N	
3	Ullage Structure B2-11	160	O/C	✓	Y ✓ N	
4	Rack 1 Middle Area B2-5	163	O/C	✓	Y ✓ N	
5	Overflow Tanks B2-9	163	O/C	✓	Y ✓ N	
6	Rack 1 South Area B2-6	160	O/C	✓	Y ✓ N	
7	Rack 1 West B2-7	160	O/C	✓	Y ✓ N	
8	Rack 1 North Area B2-4	160	O/C	✓	Y ✓ N	
9	Over flow AFFF B2-8	160	O/C	✓	Y ✓ N	
10	Expansion Vessel AFFF B2-3	163	O/C	✓	Y ✓ N	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	163	O/C	✓	Y ✓ N	
2	Transformer Main	160	O/C	✓	Y ✓ N	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	163	O/C	✓	Y ✓ N	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	O/C	✓	Y ✓ N	
2	Offices B4-3	160	O/C	✓	Y ✓ N	
3	Electrical Room B4-4	160	O/C	✓	Y ✓ N	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	O	Y ✓ N	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C			
2	Maintenance Shop Drive Way #8	O/C			
3	West Side Power Block by VS-3 # 9	O/C			
4	West Side Power Block by VS-1 # 10	O/C			
5	West Side Cooling Tower by VS-4 # 11	O/C			
6	West side Cooling Tower by VS-4 # 12	O/C			
7	N.W. Corner Chemical Storage #1	O/C			
8	N.E. Corner Chemical Storage # 2	O/C			
9	East Side W.T. by Multimedia Filters # 3	O/C			
10	East Side W.T. by Multimedia Filters # 5	O/C			
11	North Side Bldg 10 # 6	O/C			
12	Between MP-444's and Water Treat # 4	O/C			

## To Be Cycled First Saturday of Every Month

No.	System	Debri	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Removed debris

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒

BETA: ☐

Date: 3-31-18

Operator Mike Hinton

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge			Y <input type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	✓	4-1-18	
2	Maintenance Shop Drive Way #8	O/C	✓		
3	West Side Power Block by VS-3 # 9	O/C	✓		
4	West Side Power Block by VS-1 # 10	O/C	✓		
5	West Side Cooling Tower by VS-4 # 11	O/C	✓		
6	West side Cooling Tower by VS-4 # 12	O/C	✓		
7	N.W. Corner Chemical Storage #1	O/C	✓		
8	N.E. Corner Chemical Storage # 2	O/C	✓		
9	East Side W.T. by Multimedia Filters # 3	O/C	✓		
10	East Side W.T. by Multimedia Filters # 5	O/C	✓		
11	North Side Bldg 10 # 6	O/C	✓		
12	Between MP-444's and Water Treat # 4	O/C	No		

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	



# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐ Date: 2-3-18 Operator: PHIL

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	O	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	X	2-11-18	
2	Maintenance Shop Drive Way #8	O/C	X	2-11-18	
3	West Side Power Block by VS-3 # 9	O/C	X	2-11-18	
4	West Side Power Block by VS-1 # 10	O/C	X	2-11-18	
5	West Side Cooling Tower by VS-4 # 11	O/C	X	2-11-18	
6	West side Cooling Tower by VS-4 # 12	O/C	X	2-11-18	
7	N.W. Corner Chemical Storage #1	O/C	X	2-11-18	
8	N.E. Corner Chemical Storage # 2	O/C	X	2-11-18	
9	East Side W.T. by Multimedia Filters # 3	O/C	X	2-11-18	
10	East Side W.T. by Multimedia Filters # 5	O/C	X	2-11-18	
11	North Side Bldg 10 # 6	O/C	X	2-11-18	
12	Between MP-444's and Water Treat # 4	O/C	X	2-11-18	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

# ABENGOA

Mojave Solar LLC

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 2-24-18	
Operator: PHIL TOURGEUS	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 165		
Pump Suction Pressure: N/A	Pump Discharge pressure: 165	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 0206		
Pump Suction Pressure: 10 PSI	Pump Discharge pressure: 155	
Stop time: 0216	Total time running 10 MINS	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 50% Monthly Fuel Consumption: N/A		
Battery volt Crank 1: 26.7	Battery volt Crank 2: 26.6	Battery Condition: GOOD
Starting hour meter: 31.1	Start time: 0218	
Oil pressure start: 63	Oil Pressure finish: 43	
Pump Suction Pressure: 10 PSI	Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running: 181		
Stop time: 0238	Stop hour meter: 31.6	Total time running: 30 MINS
Comments: FAIL TO START BATT #1		
NOTIFICATION IN		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐ Date: 2-23-18 Operator: PHIL TOURGELIS

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	155	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	155	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	155	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	155	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	155	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	155	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	155	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	155	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	155	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	155	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	155	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	155	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	155	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	155	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	155	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	155	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	155	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	155	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	155	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	155	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	155	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	155	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	155	O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	155	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	X		
2	Maintenance Shop Drive Way #8	O/C	X		
3	West Side Power Block by VS-3 # 9	O/C	X		
4	West Side Power Block by VS-1 # 10	O/C	X		
5	West Side Cooling Tower by VS-4 # 11	O/C	X		
6	West side Cooling Tower by VS-4 # 12	O/C	X		
7	N.W. Corner Chemical Storage #1	O/C	X		
8	N.E. Corner Chemical Storage # 2	O/C	X		
9	East Side W.T. by Multimedia Filters # 3	O/C	X		
10	East Side W.T. by Multimedia Filters # 5	O/C	X		
11	North Side Bldg 10 # 6	O/C	X		
12	Between MP-444's and Water Treat # 4	O/C	X		

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

## Automated Fire Systems Inspection Checklist

Plant: ALPHA *SA*BETA: ☐Date: *2-16-18*Operator *ESraiy*

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	O/C	✓	Y ✓ N	
2	SG Unit 2 B1-2	160	✓ O/C	✓	Y ✓ N	
3	Reheaters B1-3	160	✓ O/C	✓	Y ✓ N	
4	Rack 2 West HTF B1-4	160	✓ O/C	✓	Y ✓ N	
5	Rack 2 East HTF B1-5	160	✓ O/C	✓	Y ✓ N	
6	North Steel Pro B1-6	55	✓ O/C	✓	Y ✓ N	
7	HTF Pumps B1-7	155	✓ O/C	✓	Y ✓ N	
8	HTF Heaters B1-8	155	✓ O/C	✓	Y ✓ N	
9	South Steel Pro B1-9	160	✓ O/C	✓	Y ✓ N	
10	Lube Oil B1-10	155	✓ O/C	✓	Y ✓ N	
11	Turbine Hose Stations B1-11	155	✓ O/C	✓	Y ✓ N	
12	Turbine Bearings B1-12	160	✓ O/C	✓	Y ✓ N	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	165	✓ O/C	✓	Y ✓ N	
2	Ullage Area B2-2	165	✓ O/C	✓	Y ✓ N	
3	Ullage Structure B2-11	165	✓ O/C	✓	Y ✓ N	
4	Rack 1 Middle Area B2-5	160	✓ O/C	✓	Y ✓ N	
5	Overflow Tanks B2-9	165	✓ O/C	✓	Y ✓ N	
6	Rack 1 South Area B2-6	165	✓ O/C	✓	Y ✓ N	
7	Rack 1 West B2-7	165	✓ O/C	✓	Y ✓ N	
8	Rack 1 North Area B2-4	160	✓ O/C	✓	Y ✓ N	
9	Over flow AFFF B2-8	165	✓ O/C	✓	Y ✓ N	
10	Expansion Vessel AFFF B2-3	165	✓ O/C	✓	Y ✓ N	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	155	✓ O/C	✓	Y ✓ N	
2	Transformer Main	155	✓ O/C	✓	Y ✓ N	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	✓ O/C	✓	Y ✓ N	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	✓ O/C	✓	Y ✓ N	
2	Offices B4-3	160	✓ O/C	✓	Y ✓ N	
3	Electrical Room B4-4	160	✓ O/C	✓	Y ✓ N	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	170	0	Y ✓ N	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	✓ O/C	X		
2	Maintenance Shop Drive Way #8	✓ O/C	X		missing loop for lock/missing lock
3	West Side Power Block by VS-3 # 9	✓ O/C	X		
4	West Side Power Block by VS-1 # 10	✓ O/C	X		
5	West Side Cooling Tower by VS-4 # 11	✓ O/C	X		missing lock
6	West side Cooling Tower by VS-4 # 12	✓ O/C	X		
7	N.W. Corner Chemical Storage #1	✓ O/C	X		
8	N.E. Corner Chemical Storage #2	✓ O/C	X		
9	East Side W.T. by Multimedia Filters # 3	✓ O/C	X		missing lock
10	East Side W.T. by Multimedia Filters # 5	✓ O/C	X		
11	North Side Bldg 10 # 6	✓ O/C	X		
12	Between MP-444's and Water Treat # 4	✓ O/C	X		

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	



## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 2-10-18	
Operator: Efraim Montes	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155 psi		
Discharge Pressure: —		
Pump Suction Pressure: — Pump Discharge pressure: —		
Comments: No gauges		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 140 psi		
Start time: 1810		
Pump Suction Pressure: 25 psi Pump Discharge pressure: 150 psi		
Stop time: 1820 Total time running 10 min		
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Monthly Fuel Consumption:		
Battery volt Crank 1: 26.5 Battery volt Crank 2: 26.5		Battery Condition: Good (minor acid build up)
Starting hour meter: 30.2 H		Start time: 1824
Oil pressure start: 7 psi		Oil Pressure finish: 42 psi
Pump Suction Pressure: 50 psi 50 psi		Pump Discharge pressure: 145 psi
Coolant temperature after 30 minutes running: 185 F		
Stop time: 1854 Stop hour meter: 30.6 H		Total time running: 30 min
Comments: Minor acid build up on batteries		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25- "Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p><b>Note: Fuel consumption 27 gal/ h approximately.</b></p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

## Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒BETA: ☐

Date: 2-11-18

Operator: Caleb Sowards

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	155	✓ O/C	✓	Y ✓ N	
2	SG Unit 2 B1-2	155	✓ O/C	✓	Y ✓ N	
3	Reheaters B1-3	155	✓ O/C	✓	Y ✓ N	
4	Rack 2 West HTF B1-4	155	✓ O/C	✓	Y ✓ N	
5	Rack 2 East HTF B1-5	155	✓ O/C	✓	Y ✓ N	
6	North Steel Pro B1-6	155	✓ O/C	✓	Y ✓ N	
7	HTF Pumps B1-7	155	✓ O/C	✓	Y ✓ N	
8	HTF Heaters B1-8	155	✓ O/C	✓	Y ✓ N	
9	South Steel Pro B1-9	155	✓ O/C	✓	Y ✓ N	
10	Lube Oil B1-10	155	✓ O/C	✓	Y ✓ N	
11	Turbine Hose Stations B1-11	155	✓ O/C	✓	Y ✓ N	
12	Turbine Bearings B1-12	155	✓ O/C	✓	Y ✓ N	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	175	✓ O/C	✓	Y ✓ N	
2	Ullage Area B2-2	175	✓ O/C	✓	Y ✓ N	
3	Ullage Structure B2-11	185	✓ O/C	✓	Y ✓ N	
4	Rack 1 Middle Area B2-5	175	✓ O/C	✓	Y ✓ N	
5	Overflow Tanks B2-9	175	✓ O/C	✓	Y ✓ N	
6	Rack 1 South Area B2-6	175	✓ O/C	✓	Y ✓ N	
7	Rack 1 West B2-7	175	✓ O/C	✓	Y ✓ N	
8	Rack 1 North Area B2-4	165	✓ O/C	✓	Y ✓ N	
9	Over flow AFFF B2-8	170	✓ O/C	✓	Y ✓ N	
10	Expansion Vessel AFFF B2-3	175	✓ O/C	✓	Y ✓ N	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	155	✓ O/C	✓	Y ✓ N	
2	Transformer Main	155	✓ O/C	✓	Y ✓ N	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	✓ O/C	✓	Y ✓ N	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	155	✓ O/C	✓	Y ✓ N	
2	Offices B4-3	160	✓ O/C	✓	Y ✓ N	
3	Electrical Room B4-4	155	✓ O/C	✓	Y ✓ N	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	175	Open	Y ✓ N	

PIV/Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	✓ O/C	✓	2-11-18	
2	Maintenance Shop Drive Way #8	✓ O/C	✓	2-11-18	
3	West Side Power Block by VS-3 # 9	✓ O/C	✓	2-11-18	
4	West Side Power Block by VS-1 # 10	✓ O/C	✓	2-11-18	
5	West Side Cooling Tower by VS-4 # 11	✓ O/C	✓	2-11-18	
6	West side Cooling Tower by VS-4 # 12	✓ O/C	✓	2-11-18	
7	N.W. Corner Chemical Storage #1	✓ O/C	✓	2-11-18	
8	N.E. Corner Chemical Storage # 2	✓ O/C	✓	2-11-18	
9	East Side W.T. by Multimedia Filters # 3	✓ O/C	✓	2-11-18	
10	East Side W.T. by Multimedia Filters # 5	✓ O/C	✓	2-11-18	
11	North Side Bldg 10 # 6	✓ O/C	✓	2-11-18	
12	Between MP-444's and Water Treat # 4	✓ O/C	✓	2-11-18	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

# ABENGOA

Mojave Solar LLC

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 2-4-18	
Operator: Mike Hinton	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 165		
Pump Suction Pressure: N/A	Pump Discharge pressure: 165	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 1605		
Pump Suction Pressure: 15	Pump Discharge pressure: 165	
Stop time: 1615	Total time running 10 mins	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Monthly Fuel Consumption:	
Battery volt Crank 1: 28.7	Battery volt Crank 2: 27.5	Battery Condition: Good, slight battery acid build
Starting hour meter: 29.7	Start time: 1615	
Oil pressure start: 69	Oil Pressure finish: 43	
Pump Suction Pressure: 12	Pump Discharge pressure: 165	
Coolant temperature after 30 minutes running: 185		
Stop time: 1645	Stop hour meter: 30.1	Total time running: 30 mins
Comments:		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p><b>Note: Fuel consumption 27 gal/ h approximately.</b></p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

## Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒BETA: ☐

Date: 1-27-18

Operator Mike Hindon

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	166	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	163	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	153	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	153	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	163	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	163	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	153	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	163	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	159	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	159	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	159	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	153	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	O	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	No		
2	Maintenance Shop Drive Way #8	O/C			
3	West Side Power Block by VS-3 # 9	O/C			
4	West Side Power Block by VS-1 # 10	O/C			
5	West Side Cooling Tower by VS-4 # 11	O/C			
6	West side Cooling Tower by VS-4 # 12	O/C			
7	N.W. Corner Chemical Storage #1	O/C			
8	N.E. Corner Chemical Storage # 2	O/C			
9	East Side W.T. by Multimedia Filters # 3	O/C			
10	East Side W.T. by Multimedia Filters # 5	O/C			
11	North Side Bldg 10 # 6	O/C			
12	Between MP-444's and Water Treat # 4	O/C			

## To Be Cycled First Saturday of Every Month

No.	System	Debts	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	



# ABENGOA

Mojave Solar LLC

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 2-17-18	
Operator: Caleb Sowards	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 175		
Pump Suction Pressure: 8		Pump Discharge pressure: 175
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 2301		
Pump Suction Pressure: 104.55		Pump Discharge pressure: 150
Stop time: 2311		Total time running 10 min
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 5/8s		Monthly Fuel Consumption:
Battery volt Crank 1: 26	Battery volt Crank 2: 26	Battery Condition: good
Starting hour meter: 30.6		Start time: 2319
Oil pressure start: 60 psi		Oil Pressure finish: 44 psi
Pump Suction Pressure: 0		Pump Discharge pressure: 155
Coolant temperature after 30 minutes running: 180		
Stop time: 2349		Stop hour meter: 31.1
		Total time running: 30 min
Comments: Battery 1 failure & oil pan gasket leaks, timing gear cover leaks, #1074582, #1074583		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25- "Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p><b>Note: Fuel consumption 27 gal/ h approximately.</b></p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒

BETA: ☐

Date: 1-19-18

Operator Mike Hinton

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	NA	OC	✓	Y N ✓	out of service for Outage
2	SG Unit 2 B1-2	160	OC	✓	Y N ✓	
3	Reheaters B1-3	160	O/C		Y N ✓	
4	Rack 2 West HTF B1-4	155	O/C		Y N ✓	
5	Rack 2 East HTF B1-5	150	O/C		Y N ✓	
6	North Steel Pro B1-6	155	O/C		Y N ✓	
7	HTF Pumps B1-7		O/C		Y N ✓	
8	HTF Heaters B1-8		O/C		Y N ✓	
9	South Steel Pro B1-9		O/C		Y N ✓	
10	Lube Oil B1-10		O/C		Y N ✓	
11	Turbine Hose Stations B1-11	160	O/C		Y N ✓	
12	Turbine Bearings B1-12	160	O/C		Y N ✓	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	165	O/C	✓	Y N ✓	
2	Ullage Area B2-2		O/C		Y N ✓	
3	Ullage Structure B2-11		O/C		Y N ✓	
4	Rack 1 Middle Area B2-5		O/C		Y N ✓	
5	Overflow Tanks B2-9	160	O/C		Y N ✓	
6	Rack 1 South Area B2-6	160	O/C		Y N ✓	
7	Rack 1 West B2-7	155	O/C		Y N ✓	
8	Rack 1 North Area B2-4		O/C		Y N ✓	
9	Over flow AFFF B2-8		O/C		Y N ✓	
10	Expansion Vessel AFFF B2-3		O/C		Y N ✓	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	O/C	✓	Y N ✓	
2	Transformer Main	160	O/C	✓	Y N ✓	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	O/C	✓	Y N ✓	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	O/C	✓	Y N ✓	
2	Offices B4-3	160	O/C	✓	Y N ✓	
3	Electrical Room B4-4	160	O/C	✓	Y N ✓	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	O	Y N ✓	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	No		
2	Maintenance Shop Drive Way #8	O/C			
3	West Side Power Block by VS-3 # 9	O/C			
4	West Side Power Block by VS-1 # 10	O/C			
5	West Side Cooling Tower by VS-4 # 11	O/C			
6	West side Cooling Tower by VS-4 # 12	O/C			
7	N.W. Corner Chemical Storage #1	O/C			
8	N.E. Corner Chemical Storage # 2	O/C			
9	East Side W.T. by Multimedia Filters # 3	O/C			
10	East Side W.T. by Multimedia Filters # 5	O/C			
11	North Side Bldg 10 # 6	O/C			
12	Between MP-444's and Water Treat # 4	O/C			

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input checked="" type="checkbox"/>	Beta <input type="checkbox"/>	Date: 1-20-18	
Operator: Mike Hinton		*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: 155			
Discharge Pressure: 165			
Pump Suction Pressure: No gauge		Pump Discharge pressure: 165	
Comments:			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: 144			
Start time: 2035			
Pump Suction Pressure: 15		Pump Discharge pressure: 160	
Stop time: 2045		Total time running 10 mins	
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Right below 2/3 Monthly Fuel Consumption:			
Battery volt Crank 1: 98.7		Battery volt Crank 2: 27.6	
Starting hour meter: 28.8		Battery Condition: Good, light acid build up	
Oil pressure start: 54		Start time: 2055	
Pump Suction Pressure: 10		Oil Pressure finish: 44	
Coolant temperature after 30 minutes running: 178		Pump Discharge pressure: 160	
Stop time: 2125		Stop hour meter: 29.2	
		Total time running: 30 mins	
Comments:			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.			
Note: Fuel consumption 27 gal/ h approximately.			
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]			

14 178 29.2

# ABENGOA

Mojava Solar LLC

## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input checked="" type="checkbox"/>	Beta <input type="checkbox"/>	Date: 1-13-18	
Operator: Milhe Hinton		*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: 154			
Discharge Pressure: 165			
Pump Suction Pressure: * No gauge		Pump Discharge pressure: 165	
Comments:			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: 145			
Start time: 1316			
Pump Suction Pressure: 16		Pump Discharge pressure: 165	
Stop time: 2320		Total time running 10 mins	
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Monthly Fuel Consumption:	
Battery volt Crank 1: 26.1		Battery Condition: Good, some battery acid built up on around terminal post	
Starting hour meter: 28.3		Start time: 2325	
Oil pressure start: 57		Oil Pressure finish: 44	
Pump Suction Pressure: 15		Pump Discharge pressure: 165	
Coolant temperature after 30 minutes running: 178			
Stop time: 2355		Stop hour meter: 28.7	
Total time running: 30 mins.			
Comments: Fuel right below 2/3 mark, & * Battery #1 failure alarm came up, cleared after pump started.			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.			
Note: Fuel consumption 27 gal/ h approximately.			
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]			



# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒

BETA: ☐

Date: 1-13-18

Operator: Caleb Sowards

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	150	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	155	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	155	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	180	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	150	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	155	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	155	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	155	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	155	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	155	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	155	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	150	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	155	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	180	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	180	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	170	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	155	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	155	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	155	O/C	NO	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	170	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	✓ O/C	✓	1-13-18	
2	Maintenance Shop Drive Way #8	O/C	✓	1-13-18	
3	West Side Power Block by VS-3 # 9	✓ O/C	✓	1-13-18	
4	West Side Power Block by VS-1 # 10	✓ O/C	✓	1-13-18	
5	West Side Cooling Tower by VS-4 # 11	✓ O/C	✓	1-13-18	
6	West side Cooling Tower by VS-4 # 12	✓ O/C	✓	1-13-18	
7	N.W. Corner Chemical Storage #1	✓ O/C	✓	1-13-18	
8	N.E. Corner Chemical Storage # 2	✓ O/C	✓	1-13-18	
9	East Side W.T. by Multimedia Filters # 3	✓ O/C	✓	1-13-18	
10	East Side W.T. by Multimedia Filters # 5	✓ O/C	✓	1-13-18	
11	North Side Bldg 10 # 6	✓ O/C	✓	1-13-18	
12	Between MP-444's and Water Treat # 4	✓ O/C	✓	1-13-18	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input type="checkbox"/> No <input type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information			
Plant:	Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date:	1-7-18
Operator:	Edraia Mondes	*To be completed each time unit is operated.	
Reason for running pumps:	Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump			
Pre-start Inspection:	Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 151psi			
Discharge Pressure: 162psi			
Pump Suction Pressure: NA		Pump Discharge pressure: 165	
Comments:			
Electric Pump			
Pre-start Inspection:	Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 25psi			
Start time: 1802			
Pump Suction Pressure: 25psi		Pump Discharge pressure: 150psi	
Stop time: 1812		Total time running 10 min	
Comments:			
Diesel Pump			
Pre-start Inspection:	Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Monthly Fuel Consumption:	
Battery volt Crank 1: 26.5	Battery volt Crank 2: 26.5	Battery Condition: good	
Starting hour meter: 27.94	Start time: 1817		
Oil pressure start: 1psi	Oil Pressure finish: 44psi		
Pump Suction Pressure: 20psi	Pump Discharge pressure: 100psi		
Coolant temperature after 30 minutes running: 183F			
Stop time: 1847	Stop hour meter: 28.3h	Total time running: 30 min	
Comments:			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (latest edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p><b>Note: Fuel consumption 27 gal/ h approximately.</b></p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>			

## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input checked="" type="checkbox"/>	Beta <input type="checkbox"/>	Date: 7-17	
Operator: Opic		*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: 155			
Discharge Pressure: 168			
Pump Suction Pressure:		Pump Discharge pressure:	
Comments:			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: 145			
Start time: 1332			
Pump Suction Pressure:		Pump Discharge pressure: 161	
Stop time: 1341		Total time running 10 min	
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Battery volt Crank 1: 25		Battery volt Crank 2: 25	
Starting hour meter: 15.8		Battery Condition: good	
Oil pressure start: 71		Start time: 1345	
Pump Suction Pressure: 0		Oil Pressure finish: 44	
Pump Discharge pressure: 135			
Coolant temperature after 30 minutes running: 178			
Stop time: 1415		Stop hour meter: 16.2	
Total time running: 30 min			
Comments:			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above. Note: Fuel consumption 27 gal/ h approximately.			
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]			

## Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☐ Date: 7-1-17 Operator: opic

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1	160	O/C		Y <input type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2	160	✓ O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels	170	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	170	OPEN	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	○ O/C	✓		
2	Maintenance Shop Drive Way #8	○ O/C	✓		
3	West Side Power Block by VS-3 #9	○ O/C	✓		
4	West Side Power Block by VS-1 #10	○ O/C	✓		
5	West Side Cooling Tower by VS-4 #11	○ O/C	✓		
6	West side Cooling Tower by VS-4 #12	○ O/C	✓		
7	N.W. Corner Chemical Storage #1	○ O/C	✓		
8	N.E. Corner Chemical Storage #2	○ O/C	✓		
9	East Side W.T. by Multimedia Filters #3	○ O/C	✓		
10	East Side W.T. by Multimedia Filters #5	○ O/C	✓		
11	North Side Bldg 10 #6	○ O/C	✓		
12	Between MP-444's and Water Treat #4	○ O/C	✓		



No.	System	To Be Cycled First Saturday of Every Month	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

# ABENGOA

Mojave Solar LLC

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 12-23-18	
Operator: Caleb Sowards	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 167		
Pump Suction Pressure: 23	Pump Discharge pressure: 167	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 3320		
Pump Suction Pressure: 24	Pump Discharge pressure: 161	
Stop time: 2330	Total time running 10 min	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Monthly Fuel Consumption: 54	
Battery volt Crank 1: 27 Battery volt Crank 2: 27	Battery Condition: good	
Starting hour meter: 51.7	Start time: 0331	
Oil pressure start: 70	Oil Pressure finish: 45	
Pump Suction Pressure: 20	Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running: 181		
Stop time: 3401	Stop hour meter: 52.2	Total time running: 30 min
Comments:		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA ☒

Date: 12-21-18

Operator: Shell

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	OC	Yes	YX N	
2	SG Unit 2 B1-2	160	OC	Yes	YX N	
3	Reheaters B1-3	160	OC	Yes	YX N	
4	Rack 2 West HTF B1-4	160	OC	Yes	YX N	
5	Rack 2 East HTF B1-5	158	OC	Yes	YX N	
6	North Steel Pro B1-6	158	OC	Yes	YX N	
7	HTF Pumps B1-7	158	OC	Yes	YX N	
8	HTF Heaters B1-8	158	OC	Yes	YX N	
9	South Steel Pro B1-9	160	OC	Yes	YX N	
10	Lube Oil B1-10	160	OC	Yes	YX N	
11	Turbine Hose Stations B1-11	160	OC	Yes	YX N	
12	Turbine Bearings B1-12	160	OC	Yes	YX N	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	OC	Yes	YX N	
2	Ullage Area B2-2	160	OC	Yes	YX N	
3	Ullage Structure B2-11	160	OC	Yes	YX N	
4	Rack 1 Middle Area B2-5	160	OC	Yes	YX N	
5	Overflow Tanks B2-9	160	OC	Yes	YX N	
6	Rack 1 South Area B2-6	160	OC	Yes	YX N	
7	Rack 1 West B2-7	160	OC	Yes	YX N	
8	Rack 1 North Area B2-4	160	OC	Yes	YX N	
9	Over flow AFFF B2-8	160	OC	Yes	YX N	
10	Expansion Vessel AFFF B2-3	160	OC	Yes	YX N	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	195	OC	Yes	YX N	
2	Transformer Main	195	OC	Yes	YX N	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	158	OC	Yes	YX N	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	OC	Yes	YX N	
2	Offices B4-3	160	OC	Yes	YX N	
3	Electrical Room B4-4	160	OC	Yes	YX N	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	YX N	OC	
2	Bearing 3	YX N	OC	
3	Bearing 4	YX N	OC	
4	Bearing 5	YX N	OC	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	YX N	OC	
2	MP-200A	YX N	OC	
3	MP-200B	YX N	OC	
4	MP-200C	YX N	OC	
5	MP-200D	YX N	OC	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	0	YX N	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	OC	No	11/3	
2	Maintenance Shop Drive Way #8	OC	No	11/3	
3	West Side Power Block by VS-3 # 9	OC	No	11/3	
4	West Side Power Block by VS-1 # 10	OC	No	11/3	
5	West Side Cooling Tower by VS-4 # 11	OC	No	11/3	
6	West side Cooling Tower by VS-4 # 12	OC	No	11/3	
7	N.W. Corner Chemical Storage #1	OC	No	11/3	
8	N.E. Corner Chemical Storage # 2	OC	No	11/3	
9	East Side W.T. by Multimedia Filters # 3	OC	No	11/3	
10	East Side W.T. by Multimedia Filters # 5	OC	No	11/3	
11	North Side Bldg 10 # 6	OC	No	11/3	
12	Between MP-444's and Water Treat # 4	OC	No	11/3	
13	West side Power Block Valve Shed #1	OC	No	11/3	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	YX N	

## Fire Pump Weekly Test Log

### General Information

Plant: Alpha ☐ Beta ☒ Date: 12/16/18  
 Operator: RAZA  
 Reason for running pumps: Weekly test ☒ Maintenance ☐ Emergency ☐  
 \*To be completed each time unit is operated.

### Jockey Electric Pump

Pre-start Inspection: Electrical Feed ☒ Mechanical ☒ Valves ☒  
 Check the jockey pump on pressure drop. Start up pressure: 155  
 Discharge Pressure: 165  
 Pump Suction Pressure: N/A Pump Discharge pressure: 165  
 Comments:

### Electric Pump

Pre-start Inspection: Electrical Feed ☒ Mechanical ☒ Valves ☒  
 Start the pump on pressure drop. Start up pressure: 140  
 Start time: 2128  
 Pump Suction Pressure: 16 Pump Discharge pressure: 155  
 Stop time: 2129 Total time running 1 MINUTE  
 Comments:

### Diesel Pump

Pre-start Inspection: Coolant ☒ Oil ☒ Mechanical ☒ Valves ☒ Water Jacket Heater ☒  
 Fuel level > 2/3: Yes ☒ No ☐ Monthly Fuel Consumption:  
 Battery volt Crank 1: 27 Battery volt Crank 2: 27 Battery Condition: GOOD  
 Starting hour meter: 51.2 Start time: 2137  
 Oil pressure start: 1 Oil Pressure finish: 46  
 Pump Suction Pressure: 23 Pump Discharge pressure: 152  
 Coolant temperature after 30 minutes running: 178  
 Stop time: 2112 Stop hour meter: 51.7 Total time running: 34 MINUTES  
 Comments:

Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).

This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.

Note: Fuel consumption 27 gal/h approximately.

There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]



# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐ BETA ☒ Date: 12-13-14-2018 Operator: L. Shell

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	OC	Yes	YX N	
2	SG Unit 2 B1-2	158	OC	Yes	YX N	
3	Reheaters B1-3	160	OC	Yes	YX N	
4	Rack 2 West HTF B1-4	158	OC	Yes	YX N	
5	Rack 2 East HTF B1-5	155	OC	Yes	YX N	
6	North Steel Pro B1-6	155	OC	Yes	YX N	
7	HTF Pumps B1-7	155	OC	Yes	YX N	
8	HTF Heaters B1-8	165	OC	Yes	YX N	
9	South Steel Pro B1-9	160	OC	Yes	YX N	
10	Lube Oil B1-10	158	OC	Yes	YX N	
11	Turbine Hose Stations B1-11	155	OC	Yes	YX N	
12	Turbine Bearings B1-12	160	OC	Yes	YX N	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	155	OC	Yes	YX N	
2	Ullage Area B2-2	160	OC	Yes	YX N	
3	Ullage Structure B2-11	160	OC	Yes	YX N	
4	Rack 1 Middle Area B2-5	160	OC	Yes	YX N	
5	Overflow Tanks B2-9	158	OC	Yes	YX N	
6	Rack 1 South Area B2-6	158	OC	Yes	YX N	
7	Rack 1 West B2-7	158	OC	Yes	YX N	
8	Rack 1 North Area B2-4	160	OC	Yes	YX N	
9	Over flow AFFF B2-8	158	OC	Yes	YX N	
10	Expansion Vessel AFFF B2-3	155	OC	Yes	YX N	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	185	OC	Yes	YX N	
2	Transformer Main	185	OC	Yes	YX N	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	185	OC	Yes	YX N	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	OC	Yes	YX N	
2	Offices B4-3	160	OC	Yes	YX N	
3	Electrical Room B4-4	160	OC	Yes	YX N	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	YX N	OC	
2	Bearing 3	YX N	OC	
3	Bearing 4	YX N	OC	
4	Bearing 5	YX N	OC	

## HTF Deluge System Valves (To be Locked In the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	YX N	OC	
2	MP-200A	YX N	OC	
3	MP-200B	YX N	OC	
4	MP-200C	YX N	OC	
5	MP-200D	YX N	OC	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	168	0	YX N	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	OC	NO	11-3	
2	Maintenance Shop Drive Way #8	OC	NO	11-3	
3	West Side Power Block by VS-3 # 9	OC	NO	11-3	
4	West Side Power Block by VS-1 # 10	Open	NO	11-3	
5	West Side Cooling Tower by VS-4 # 11	OC	NO	11-3	
6	West side Cooling Tower by VS-4 # 12	OC	NO	11-3	
7	N.W. Corner Chemical Storage #1	OC	NO	11-3	
8	N.E. Corner Chemical Storage # 2	OC	NO	11-3	
9	East Side W.T. by Multimedia Filters # 3	OC	NO	11-3	
10	East Side W.T. by Multimedia Filters # 5	OC	NO	11-3	
11	North Side Bldg 10 # 6	OC	NO	11-3	
12	Between MP-444's and Water Treat # 4	OC	NO	11-3	
13	West side Power Block Valve Shed #1	OC	NO	11-3	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	YX N	

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 12-8-18	
Operator: Caleb Sowards	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 168		
Pump Suction Pressure: 15	Pump Discharge pressure: 167	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 1030		
Pump Suction Pressure: 10	Pump Discharge pressure: 163	
Stop time: 1040	Total time running 10 min	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Monthly Fuel Consumption: 20	
Battery volt Crank 1: 26.6	Battery volt Crank 2: 26.7	Battery Condition: good
Starting hour meter: 510	Start time: 0220	
Oil pressure start: 70	Oil Pressure finish:	
Pump Suction Pressure: 0	Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running: 189		
Stop time: 0235	Stop hour meter: 51.2	Total time running: 15 min
Comments: test ended early, high intake air temp		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 12/8/18

Operator: PH2A

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	160	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked In the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	P	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	Yes	12/8/18	
2	Maintenance Shop Drive Way #8	O/C	Yes	12/8/18	
3	West Side Power Block by VS-3 # 9	O/C	Yes	12/8/18	
4	West Side Power Block by VS-1 # 10	O/C	Yes	12/8/18	
5	West Side Cooling Tower by VS-4 # 11	O/C	Yes	12/8/18	
6	West side Cooling Tower by VS-4 # 12	O/C	Yes	12/8/18	
7	N.W. Corner Chemical Storage #1	O/C	Yes	12/8/18	
8	N.E. Corner Chemical Storage # 2	O/C	Yes	12/8/18	
9	East Side W.T. by Multimedia Filters # 3	O/C	Yes	12/8/18	
10	East Side W.T. by Multimedia Filters # 5	O/C	Yes	12/8/18	
11	North Side Bldg 10 # 6	O/C	Yes	12/8/18	
12	Between MP-444's and Water Treat # 4	O/C	Yes	12/8/18	
13	West side Power Block Valve Shed #1	O/C	Yes	12/8/18	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	



## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 12-3-18	
Operator: Caleb Sowards	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 135		
Discharge Pressure: 167		
Pump Suction Pressure: 15	Pump Discharge pressure: 167	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 2450		
Pump Suction Pressure: 15	Pump Discharge pressure: 163	
Stop time: 0100	Total time running 10 min	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Monthly Fuel Consumption: 13.5	
Battery volt Crank 1: 26	Battery volt Crank 2: 26	Battery Condition: good
Starting hour meter: 50.5	Start time: 0120	
Oil pressure start: 68	Oil Pressure finish: 46	
Pump Suction Pressure: 0	Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running: 183		
Stop time: 150	Stop hour meter: 51.0	Total time running: 30 min
Comments:		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		



# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA ☒

Date:

12/1/18

Operator

PLA 2A

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	165	O/C	Y	<input checked="" type="checkbox"/>	
2	SG Unit 2 B1-2	165	O/C	Y	<input checked="" type="checkbox"/>	
3	Reheaters B1-3	165	O/C	Y	<input checked="" type="checkbox"/>	
4	Rack 2 West HTF B1-4	165	O/C	Y	<input checked="" type="checkbox"/>	
5	Rack 2 East HTF B1-5	165	O/C	Y	<input checked="" type="checkbox"/>	
6	North Steel Pro B1-6	165	O/C	Y	<input checked="" type="checkbox"/>	
7	HTF Pumps B1-7	165	O/C	Y	<input checked="" type="checkbox"/>	
8	HTF Heaters B1-8	165	O/C	Y	<input checked="" type="checkbox"/>	
9	South Steel Pro B1-9	165	O/C	Y	<input checked="" type="checkbox"/>	
10	Lube Oil B1-10	165	O/C	Y	<input checked="" type="checkbox"/>	
11	Turbine Hose Stations B1-11	165	O/C	Y	<input checked="" type="checkbox"/>	
12	Turbine Bearings B1-12	165	O/C	Y	<input checked="" type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	165	O/C	Y	<input checked="" type="checkbox"/>	
2	Ullage Area B2-2	165	O/C	Y	<input checked="" type="checkbox"/>	
3	Ullage Structure B2-11	165	O/C	Y	<input checked="" type="checkbox"/>	
4	Rack 1 Middle Area B2-5	165	O/C	Y	<input checked="" type="checkbox"/>	
5	Overflow Tanks B2-9	165	O/C	Y	<input checked="" type="checkbox"/>	
6	Rack 1 South Area B2-6	165	O/C	Y	<input checked="" type="checkbox"/>	
7	Rack 1 West B2-7	165	O/C	Y	<input checked="" type="checkbox"/>	
8	Rack 1 North Area B2-4	165	O/C	Y	<input checked="" type="checkbox"/>	
9	Over flow AFFF B2-8	165	O/C	Y	<input checked="" type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	165	O/C	Y	<input checked="" type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	O/C	Y	<input checked="" type="checkbox"/>	
2	Transformer Main	165	O/C	Y	<input checked="" type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	O/C	Y	<input checked="" type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	O/C	Y	<input checked="" type="checkbox"/>	
2	Offices B4-3	165	O/C	Y	<input checked="" type="checkbox"/>	
3	Electrical Room B4-4	165	O/C	Y	<input checked="" type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y	O/C	
2	Bearing 3	Y	O/C	
3	Bearing 4	Y	O/C	
4	Bearing 5	Y	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y	O/C	
2	MP-200A	Y	O/C	
3	MP-200B	Y	O/C	
4	MP-200C	Y	O/C	
5	MP-200D	Y	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	O	Y	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	Y	12-2-18	
2	Maintenance Shop Drive Way #8	O/C	Y	N/A	
3	West Side Power Block by VS-3 # 9	O/C	Y	12-2-18	
4	West Side Power Block by VS-1 # 10	O/C	Y	12-2-18	
5	West Side Cooling Tower by VS-4 # 11	O/C	Y	12-2-18	
6	West side Cooling Tower by VS-4 # 12	O/C	Y	12-2-18	
7	N.W. Corner Chemical Storage #1	O/C	Y	12-2-18	
8	N.E. Corner Chemical Storage # 2	O/C	Y	12-2-18	
9	East Side W.T. by Multimedia Filters # 3	O/C	Y	12-2-18	
10	East Side W.T. by Multimedia Filters # 5	O/C	Y	12-2-18	
11	North Side Bldg 10 # 6	O/C	Y	12-2-18	
12	Between MP-444's and Water Treat # 4	O/C	N	N/A	
13	West side Power Block Valve Shed #1	O/C	Y	12-2-18	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y	

## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>		Date: 11-24-18	
Operator: Caleb Sowards		*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: 155			
Discharge Pressure: 166			
Pump Suction Pressure: 15		Pump Discharge pressure: 166	
Comments:			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: 145			
Start time: 10:10			
Pump Suction Pressure: 10		Pump Discharge pressure: 163	
Stop time: 10:20		Total time running 10 min	
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Monthly Fuel Consumption:	
Battery volt Crank 1: 26		Battery Condition: good	
Starting hour meter: 50.0		Start time: 10:30	
Oil pressure start: 65		Oil Pressure finish: 46	
Pump Suction Pressure: 5		Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running: 182			
Stop time: 11:00		Total time running: 30 min	
Comments:			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>			

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐ BETA: ☒ Date: 11/23/18 Operator: RAC

## Valve Shed # 1 by Condenser

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Vlv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Vlv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C			
2	Maintenance Shop Drive Way #8	O/C			
3	West Side Power Block by VS-3 # 9	O/C			
4	West Side Power Block by VS-1 # 10	O/C			
5	West Side Cooling Tower by VS-4 # 11	O/C			
6	West side Cooling Tower by VS-4 # 12	O/C			
7	N.W. Corner Chemical Storage #1	O/C			
8	N.E. Corner Chemical Storage # 2	O/C			
9	East Side W.T. by Multimedia Filters # 3	O/C			
10	East Side W.T. by Multimedia Filters # 5	O/C			
11	North Side Bldg 10 # 6	O/C			
12	Between MP-444's and Water Treat # 4	O/C			
13	West side Power Block Valve Shed #1	O/C			

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 11-17-18	
Operator: Caleb	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 168		
Pump Suction Pressure: 15	Pump Discharge pressure: 168	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 320		
Pump Suction Pressure: 10	Pump Discharge pressure: 163	
Stop time: 330	Total time running 10 min	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Monthly Fuel Consumption:		
Battery volt Crank 1: 26	Battery volt Crank 2: 26	Battery Condition: good
Starting hour meter: 49.6	Start time: 153	
Oil pressure start: 65	Oil Pressure finish: 45	
Pump Suction Pressure: 0	Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running: 178		
Stop time: 153	Stop hour meter: 50.1	Total time running: 30 min
Comments:		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.		
Note: Fuel consumption 27 gal/h approximately.		
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]		



# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 11/16/18

Operator PLAZA

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	165	O/C	Yes	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	Open	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C			
2	Maintenance Shop Drive Way #8	O/C			
3	West Side Power Block by VS-3 # 9	O/C			
4	West Side Power Block by VS-1 # 10	O/C			
5	West Side Cooling Tower by VS-4 # 11	O/C			
6	West side Cooling Tower by VS-4 # 12	O/C			
7	N.W. Corner Chemical Storage #1	O/C			
8	N.E. Corner Chemical Storage #2	O/C			
9	East Side W.T. by Multimedia Filters # 3	O/C			
10	East Side W.T. by Multimedia Filters # 5	O/C			
11	North Side Bldg 10 # 6	O/C			
12	Between MP-444's and Water Treat # 4	O/C			
13	West side Power Block Valve Shed #1	O/C			

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>		Date: 11-11-18	
Operator: Ceilia Anderson		*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: 155			
Discharge Pressure: 165			
Pump Suction Pressure:		Pump Discharge pressure: 165	
Comments:			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: 145			
Start time: 0500 1250			
Pump Suction Pressure:		Pump Discharge pressure: 165	
Stop time: 1800		Total time running 10 minutes	
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Monthly Fuel Consumption:	
Battery volt Crank 1: Battery volt Crank 2: ✓		Battery Condition: Good	
Starting hour meter: 49.4		Start time: 1805	
Oil pressure start: 67		Oil Pressure finish: 48	
Pump Suction Pressure: 187		Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running:			
Stop time: 1835		Stop hour meter: 49.6	
Total time running: 30 minutes			
Comments:			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.			
Note: Fuel consumption 27 gal/h approximately.			
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]			

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐ BETA ☒ Date: 11-10-18 Operator: shell

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	165	O/C	yes	YX N	
2	SG Unit 2 B1-2	160	O/C	yes	YX N	
3	Reheaters B1-3	163	O/C	yes	YX N	
4	Rack 2 West HTF B1-4	160	O/C	yes	YX N	
5	Rack 2 East HTF B1-5	160	O/C	yes	YX N	
6	North Steel Pro B1-6	160	O/C	yes	YX N	
7	HTF Pumps B1-7	160	O/C	yes	YX N	
8	HTF Heaters B1-8	160	O/C	yes	YX N	
9	South Steel Pro B1-9	163	O/C	yes	YX N	
10	Lube Oil B1-10	163	O/C	yes	YX N	
11	Turbine Hose Stations B1-11	160	O/C	yes	YX N	
12	Turbine Bearings B1-12	165	O/C	yes	YX N	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	O/C	yes	YX N	
2	Ullage Area B2-2	162	O/C	yes	YX N	
3	Ullage Structure B2-11	160	O/C	yes	YX N	
4	Rack 1 Middle Area B2-5	163	O/C	yes	YX N	
5	Overflow Tanks B2-9	160	O/C	yes	YX N	
6	Rack 1 South Area B2-6	163	O/C	yes	YX N	
7	Rack 1 West B2-7	160	O/C	yes	YX N	
8	Rack 1 North Area B2-4	165	O/C	yes	YX N	
9	Over flow AFFF B2-8	160	O/C	yes	YX N	
10	Expansion Vessel AFFF B2-3	160	O/C	yes	YX N	

## Valve Shed # 3 by Bldg 35 GR Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	163	O/C	yes	YX N	
2	Transformer Main	163	O/C	yes	YX N	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	O/C	yes	YX N	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	163	O/C	yes	YX N	
2	Offices B4-3	163	O/C	yes	YX N	
3	Electrical Room B4-4	163	O/C	yes	YX N	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	YX N	O/C	
2	Bearing 3	YX N	O/C	
3	Bearing 4	YX N	O/C	
4	Bearing 5	YX N	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	YX N	O/C	
2	MP-200A	YX N	O/C	
3	MP-200B	YX N	O/C	
4	MP-200C	YX N	O/C	
5	MP-200D	YX N	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	170	O	YX N	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	NO	11-3-18	
2	Maintenance Shop Drive Way #8	O/C	NO	11-3-18	
3	West Side Power Block by VS-3 # 9	O/C	NO	11-3-18	
4	West Side Power Block by VS-1 # 10	O/C	NO	11-3-18	
5	West Side Cooling Tower by VS-4 # 11	O/C	NO	11-3-18	
6	West side Cooling Tower by VS-4 # 12	O/C	NO	11-3-18	
7	N.W. Corner Chemical Storage #1	O/C	NO	11-3-18	
8	N.E. Corner Chemical Storage # 2	O/C	NO	11-3-18	
9	East Side W.T. by Multimedia Filters # 3	O/C	NO	11-3-18	
10	East Side W.T. by Multimedia Filters # 5	O/C	NO	11-3-18	
11	North Side Bldg 10 # 6	O/C	NO	11-3-18	
12	Between MP-444's and Water Treat # 4	O/C	NO	11-3-18	
13	West side Power Block Valve Shed #1	O/C	NO	11-3-18	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	YX N	

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 11-4-18	
Operator: Shell	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 145		
Discharge Pressure: 149		
Pump Suction Pressure: No Gauge	Pump Discharge pressure: 153	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure:		
Start time: 18:23		
Pump Suction Pressure: 18	Pump Discharge pressure: 155	
Stop time: 18:24	Total time running 1.5 min.	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 3/4	Monthly Fuel Consumption:	
Battery volt Crank 1: 26.5 Battery volt Crank 2: 26	Battery Condition: Good	
Starting hour meter: 48.9	Start time: 18:30	
Oil pressure start: 42	Oil Pressure finish: 47	
Pump Suction Pressure: 23	Pump Discharge pressure: 153	
Coolant temperature after 30 minutes running: 181		
Stop time: 19:00	Stop hour meter: 49.3	Total time running: 30 min
Comments: Coolant @ min level		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		



# Automated Fire Systems Inspection Checklist

Plant: ALPHA 4 BETA: ✓ Date: 11-3-18 Operator Anderson

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	170	0	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/O			
2	Maintenance Shop Drive Way #8	O/C	✓	11-3-18	
3	West Side Power Block by VS-3 # 9	O/C	✓	11-3-18	
4	West Side Power Block by VS-1 # 10	O/C	✓	11-3-18	
5	West Side Cooling Tower by VS-4 # 11	O/C	✓	11-3-18	
6	West side Cooling Tower by VS-4 # 12	O/C	✓	11-3-18	
7	N.W. Corner Chemical Storage #1	O/C	✓	11-3-18	
8	N.E. Corner Chemical Storage #2	O/C	✓	11-3-18	
9	East Side W.T. by Multimedia Filters # 3	O/C	✓	11-3-18	
10	East Side W.T. by Multimedia Filters # 5	O/C	✓	11-3-18	
11	North Side Bldg 10 # 6	O/C	✓	11-3-18	
12	Between MP-444's and Water Treat # 4	O/O			
13	West side Power Block Valve Shed #1	O/C	✓	11-3-18	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 10-23-18	
Operator: Caleb Sowards	*To be completed each time unit is operated	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 164		
Pump Suction Pressure: 15	Pump Discharge pressure: 164	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 14:10		
Pump Suction Pressure:	Pump Discharge pressure: 163	
Stop time: 14:50	Total time running 10 min	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Monthly Fuel Consumption: 54 gal	
Battery volt Crank 1: 26	Battery volt Crank 2: 26	Battery Condition: good
Starting hour meter: 47.9	Start time: 13:29	
Oil pressure start: 70	Oil Pressure finish: 46	
Pump Suction Pressure: 10	Pump Discharge pressure: 155	
Coolant temperature after 10 minutes running: 187		
Stop time: 14:00	Stop hour meter: 48.4	Total time running: 30 min
Comments: 10 min 174 temp 49 pressure with flow		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 10-27-18	
Operator: ghell	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 150		
Discharge Pressure: 165		
Pump Suction Pressure: No Gauge	Pump Discharge pressure: 165	
Comments: In Auto		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 25 PSI		
Start time: 1858		
Pump Suction Pressure: 15 PSI	Pump Discharge pressure: 155	
Stop time: 1859	Total time running 1.5 min.	
Comments: In Auto.		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 90% Monthly Fuel Consumption:		
Battery volt Crank 1: 26.5	Battery volt Crank 2: 26.5	Battery Condition: Good
Starting hour meter: 48.4	Start time: 01:32	
Oil pressure start: 63	Oil Pressure finish: 47	
Pump Suction Pressure: 22	Pump Discharge pressure: 150	
Coolant temperature after 30 minutes running: 181		
Stop time: 02:02	Stop hour meter: 48.8	Total time running: 30 min
Comments: Diesel Pump was Ran 10-23-18 for flow test.		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>te: Fuel consumption 27 gal/h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 10-27-18

Operator: Collin Anderson

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	175	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	175	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	170	0	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	OK	No	10-6-18	
2	Maintenance Shop Drive Way #8	OK	No	10-6	
3	West Side Power Block by VS-3 # 9	OK	No	10-6	
4	West Side Power Block by VS-1 # 10	OK	No	10-6	
5	West Side Cooling Tower by VS-4 # 11	OK	No	10-6	
6	West side Cooling Tower by VS-4 # 12	OK	No	10-6	
7	N.W. Corner Chemical Storage #1	OK	No	10-6	
8	N.E. Corner Chemical Storage # 2	OK	No	10-6	
9	East Side W.T. by Multimedia Filters # 3	OK	No	10-6	
10	East Side W.T. by Multimedia Filters # 5	OK	No	10-6	
11	North Side Bldg 10 # 6	OK	No	10-6	
12	Between MP-444's and Water Treat # 4	OK	No	10-6	
13	West side Power Block Valve Shed #1	OK	No	10-6	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	



## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 10-20-18	
Operator:	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 165		
Pump Suction Pressure: N/A	Pump Discharge pressure: 170	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 2200		
Pump Suction Pressure: 10	Pump Discharge pressure: 155	
Stop time: 2210	Total time running 10 Minutes	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Monthly Fuel Consumption:		
Battery volt Crank 1:	Battery volt Crank 2: /	Battery Condition: Good
Starting hour meter: 47.3	Start time: 2212	
Oil pressure start: 71	Oil Pressure finish: 46	
Pump Suction Pressure: 15	Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running: 187		
Stop time: 2242	Stop hour meter: 47.8	Total time running: 30 minutes
Comments:		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA ☒

Date: 10-19-18

Operator: Larry Skill

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	163	O/C	yes	YX N	
2	SG Unit 2 B1-2	160	O/C	yes	YX N	
3	Reheaters B1-3	163	O/C	yes	YX N	
4	Rack 2 West HTF B1-4	160	O/C	yes	YX N	
5	Rack 2 East HTF B1-5	160	O/C	yes	YX N	
6	North Steel Pro B1-6	158	O/C	yes	YX N	
7	HTF Pumps B1-7	160	O/C	yes	YX N	
8	HTF Heaters B1-8	158	O/C	yes	YX N	
9	South Steel Pro B1-9	160	O/C	yes	YX N	
10	Lube Oil B1-10	160	O/C	yes	YX N	
11	Turbine Hose Stations B1-11	160	O/C	yes	YX N	
12	Turbine Bearings B1-12	163	O/C	yes	YX N	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	162	O/C	yes	YX N	
2	Ullage Area B2-2	160	O/C	yes	YX N	
3	Ullage Structure B2-11	160	O/C	yes	YX N	
4	Rack 1 Middle Area B2-5	163	O/C	yes	YX N	
5	Overflow Tanks B2-9	160	O/C	yes	YX N	
6	Rack 1 South Area B2-6	160	O/C	yes	YX N	
7	Rack 1 West B2-7	160	O/C	yes	YX N	
8	Rack 1 North Area B2-4	163	O/C	yes	YX N	
9	Over flow AFFF B2-8	160	O/C	yes	YX N	
10	Expansion Vessel AFFF B2-3	160	O/C	yes	YX N	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	158	O/C	yes	YX N	
2	Transformer Main	158	O/C	yes	YX N	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	163	O/C	yes	YX N	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	O/C	yes	YX N	
2	Offices B4-3	163	O/C	yes	YX N	
3	Electrical Room B4-4	160	O/C	yes	YX N	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	YX N	O/C	
2	Bearing 3	YX N	O/C	
3	Bearing 4	YX N	O/C	
4	Bearing 5	YX N	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	YX N	O/C	
2	MP-200A	YX N	O/C	
3	MP-200B	YX N	O/C	
4	MP-200C	YX N	O/C	
5	MP-200D	YX N	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	open	YX N	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	No	10 6 18	
2	Maintenance Shop Drive Way #8	O/C	No	10 6 18	
3	West Side Power Block by VS-3 # 9	O/C	No	10 6 18	
4	West Side Power Block by VS-1 # 10	O/C	No	10 6 18	
5	West Side Cooling Tower by VS-4 # 11	O/C	No	10 6 18	
6	West side Cooling Tower by VS-4 # 12	O/C	No	10 6 18	
7	N.W. Corner Chemical Storage #1	O/C	No	10 6 18	
8	N.E. Corner Chemical Storage # 2	O/C	No	10 6 18	
9	East Side W.T. by Multimedia Filters # 3	O/C	No	10 6 18	
10	East Side W.T. by Multimedia Filters # 5	O/C	No	10 6 18	
11	North Side Bldg 10 # 6	O/C	No	10 6 18	
12	Between MP-444's and Water Treat # 4	O/C	No	10 6 18	
13	West side Power Block Valve Shed #1	O/C	No	10 6 18	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	YX NX	

## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 10-14-18		
Operator: Caleb Sowards	*To be completed each time unit is operated.		
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: 155			
Discharge Pressure: 168			
Pump Suction Pressure: 15		Pump Discharge pressure: 168	
Comments:			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: 145			
Start time: 0945			
Pump Suction Pressure: 10		Pump Discharge pressure: 163	
Stop time: 0955		Total time running 10 min	
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Monthly Fuel Consumption:			
Battery volt Crank 1: 26		Battery Condition: good	
Starting hour meter: 47.0		Start time: 2008	
Oil pressure start: 70		Oil Pressure finish: 45	
Pump Suction Pressure: 5		Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running: 180			
Stop time: 8018		Stop hour meter: 47.3	
Total time running: 18 min			
Comments: 13 min High charge air alarm open 2.5 min Bypass 5 min no change ended test			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.			
Note: Fuel consumption 27 gal/h approximately.			
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]			

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 10/12/18

Operator: PLAZA

## Valve Shed # 1 by Condenser

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Transformer Aux	170	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	170	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	170	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	170	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	170	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Vlv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Vlv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	160	0	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	OK	✓	10/16/18	
2	Maintenance Shop Drive Way #8	OK	✓	10/16	
3	West Side Power Block by VS-3 # 9	OK	✓	10/16	
4	West Side Power Block by VS-1 # 10	OK	✓	10/16	
5	West Side Cooling Tower by VS-4 # 11	OK	✓	10/16	
6	West side Cooling Tower by VS-4 # 12	OK	✓	10/16	
7	N.W. Corner Chemical Storage #1	OK	✓	10/16	
8	N.E. Corner Chemical Storage # 2	OK	✓	10/16	
9	East Side W.T. by Multimedia Filters # 3	OK	✓	10/16	
10	East Side W.T. by Multimedia Filters # 5	OK	✓	10/16	
11	North Side Bldg 10 # 6	OK	✓	10/16	
12	Between MP-444's and Water Treat # 4	OK	✓	10/16	
13	West side Power Block Valve Shed #1	OK	✓	10/16	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	



## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 10-10-18	
Operator: Shell	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input type="checkbox"/> Maintenance <input checked="" type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure:		
Discharge Pressure:		
Pump Suction Pressure:	Pump Discharge pressure:	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/>		
Start the pump on pressure drop. Start up pressure:		
Start time:		
Pump Suction Pressure:	Pump Discharge pressure:	
Stop time:	Total time running	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input type="checkbox"/> 40%	Monthly Fuel Consumption:	
Battery volt Crank 1: 28 Battery volt Crank 2: 28	Battery Condition: Good	
Starting hour meter: 47.0	Start time: 15:58	
Oil pressure start: 70.0	Oil Pressure finish:	
Pump Suction Pressure: 22	Pump Discharge pressure: 150	
Coolant temperature after 30 minutes running:		
Stop time: 1602	Stop hour meter: 47.0	Total time running: 5 min.
Comments: Test run for injector repairs		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis). Yes		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

## Fire Pump Weekly Test Log

General Information	
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 10-7-18
Operator: Caleb Sowards	*To be completed each time unit is operated.
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>	
Jockey Electric Pump	
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>	
Check the jockey pump on pressure drop. Start up pressure: 155	
Discharge Pressure: 168	
Pump Suction Pressure: 15	Pump Discharge pressure: 168
Comments:	
Electric Pump	
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>	
Start the pump on pressure drop. Start up pressure: 145	
Start time: 0100	
Pump Suction Pressure: 10	Pump Discharge pressure: 163
Stop time: 0110	Total time running 10 min
Comments:	
Diesel Pump	
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>	
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 3/8	Monthly Fuel Consumption: 13.5
Battery volt Crank 1: 26 Battery volt Crank 2: 26	Battery Condition: good
Starting hour meter: 46.7	Start time: 0111
Oil pressure start: 70	Oil Pressure finish: 45
Pump Suction Pressure: 10	Pump Discharge pressure: 155
Coolant temperature after 30 minutes running: 189	
Stop time: 0134	Stop hour meter: 47.0
Total time running: 23 min	
Comments: test ended early high charge air inlet temp alarm	
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).	
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.	
Note: Fuel consumption 27 gal/h approximately.	
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]	

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 10/6/18

Operator: PM 2A

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	160	0	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	OK	Yes	10/7/18	
2	Maintenance Shop Drive Way #8	OK	No		
3	West Side Power Block by VS-3 # 9	OK	Yes	10/6/18	
4	West Side Power Block by VS-1 # 10	OK	Yes	10/6/18	
5	West Side Cooling Tower by VS-4 # 11	OK	Yes	10/6/18	
6	West side Cooling Tower by VS-4 # 12	OK	Yes	10/6/18	
7	N.W. Corner Chemical Storage #1	OK	Yes	10/6/18	
8	N.E. Corner Chemical Storage # 2	OK	Yes	10/6/18	
9	East Side W.T. by Multimedia Filters # 3	OK	Yes	10/6/18	
10	East Side W.T. by Multimedia Filters # 5	OK	Yes	10/6/18	
11	North Side Bldg 10 # 6	OK	Yes	10/6/18	
12	Between MP-444's and Water Treat # 4	OK	No		
13	West side Power Block Valve Shed #1	OK	Yes	10/7/18	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 9-30-18		
Operator: Caleb Sowards	*To be completed each time unit is operated.		
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: 155			
Discharge Pressure: 168			
Pump Suction Pressure: 15		Pump Discharge pressure: 168	
Comments:			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: 145			
Start time: 0207			
Pump Suction Pressure: 10		Pump Discharge pressure: 164	
Stop time: 0217		Total time running 10 mins	
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 3/8		Monthly Fuel Consumption: 541	
Battery volt Crank 1: 26	Battery volt Crank 2: 26	Battery Condition: good	
Starting hour meter: 46.2		Start time: 0224	
Oil pressure start: 66		Oil Pressure finish:	
Pump Suction Pressure: 0		Pump Discharge pressure: 153	
Coolant temperature after 30 minutes running: 180			
Stop time: 0254		Stop hour meter: 46.7	
Total time running: 30 min			
Comments: Fuel Level Below Half needs Refueling			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.			
Note: Fuel consumption 27 gal/ h approximately.			
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]			



# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date:

9/29/2018

Operator

Manuel Garcia

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	60	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	60	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	60	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	60	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	60	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	60	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	60	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	60	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	60	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	60	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	60	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	60	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	
2	Bearing 3	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	
3	Bearing 4	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	
4	Bearing 5	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	
2	MP-200A	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	
3	MP-200B	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	
4	MP-200C	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	
5	MP-200D	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	170	0	Y <input type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	ND		
2	Maintenance Shop Drive Way #8	O/C	ND		
3	West Side Power Block by VS-3 # 9	O/C	ND		
4	West Side Power Block by VS-1 # 10	O/C	ND		
5	West Side Cooling Tower by VS-4 # 11	O/C	ND		
6	West side Cooling Tower by VS-4 # 12	O/C	ND		
7	N.W. Corner Chemical Storage #1	O/C	ND		
8	N.E. Corner Chemical Storage #2	O/C	ND		
9	East Side W.T. by Multimedia Filters # 3	O/C	ND		
10	East Side W.T. by Multimedia Filters # 5	O/C	ND		
11	North Side Bldg 10 # 6	O/C	ND		
12	Between MP-444's and Water Treat # 4	O/C	ND		
13	West side Power Block Valve Shed #1	O/C	ND		

## To Be Cycled First Saturday of Every Month

No.	System	Debts	Comments / Actions
1	Transformer Yard Refuse Check	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 8-22-18	
Operator: Caleb Sowards	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 168		
Pump Suction Pressure: 15	Pump Discharge pressure: 168	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 1500		
Pump Suction Pressure: 15	Pump Discharge pressure: 163	
Stop time: 1510	Total time running 10 mins	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 3/8	Monthly Fuel Consumption: 40.5	
Battery volt Crank 1: 26	Battery volt Crank 2: 26	Battery Condition: good
Starting hour meter: 45.7	Start time: 1515	
Oil pressure start: 166	Oil Pressure finish: 4.5	
Pump Suction Pressure: 0	Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running: 178		
Stop time: 1545	Stop hour meter: 46.2	Total time running: 30 min
Comments:		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 9/22/18

Operator: MANUEL GARCIA

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	120	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	VALVE
2	SG Unit 2 B1-2	120	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	SHED - VALVED OUT
3	Reheaters B1-3	120	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	DUE TO LEAK
4	Rack 2 West HTF B1-4	120	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	ON MAIN
5	Rack 2 East HTF B1-5	120	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	120	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	120	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	120	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	120	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	120	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	120	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	120	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	O	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	NO		
2	Maintenance Shop Drive Way #8	O/C	NO		
3	West Side Power Block by VS-3 # 9	O/C	NO		
4	West Side Power Block by VS-1 # 10	O/C	NO		
5	West Side Cooling Tower by VS-4 # 11	O/C	NO		
6	West side Cooling Tower by VS-4 # 12	O/C	NO		LEAK IN SYSTEM
7	N.W. Corner Chemical Storage #1	O/C	NO		
8	N.E. Corner Chemical Storage # 2	O/C	NO		
9	East Side W.T. by Multimedia Filters # 3	O/C	NO		
10	East Side W.T. by Multimedia Filters # 5	O/C	NO		
11	North Side Bldg 10 # 6	O/C	NO		
12	Between MP-444's and Water Treat # 4	O/C	NO		
13	West side Power Block Valve Shed #1	O/C	NO		LEAK IN SYSTEM

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 9/16/18	
Operator: Rico T	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 155		
Pump Suction Pressure: 24	Pump Discharge pressure: 155	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 165		
Start time: 6:04		
Pump Suction Pressure: 24	Pump Discharge pressure: 155	
Stop time: 6:14	Total time running 10 min	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input type="checkbox"/>	Monthly Fuel Consumption:	
Battery volt Crank 1: 27.3	Battery volt Crank 2: 27.3	Battery Condition: <input checked="" type="checkbox"/>
Starting hour meter: 45.2	Start time: 6:15 pm	
Oil pressure start: 66 psi	Oil Pressure finish: 45 psi	
Pump Suction Pressure: 155	Pump Discharge pressure: 20	
Coolant temperature after 30 minutes running: <del>183</del> 183		
Stop time: 6:45 pm	Stop hour meter: 45.7	Total time running: 30 min
Comments:		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		



# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 9-15-18

Operator Shell

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	123	OC	yes	YX N	
2	SG Unit 2 B1-2	123	OC	yes	YX N	
3	Reheaters B1-3	125	OC	yes	YX N	
4	Rack 2 West HTF B1-4	125	OC	yes	YX N	
5	Rack 2 East HTF B1-5	120	OC	yes	YX N	
6	North Steel Pro B1-6	120	OC	yes	YX N	
7	HTF Pumps B1-7	125	OC	yes	YX N	
8	HTF Heaters B1-8	120	OC	yes	YX N	
9	South Steel Pro B1-9	125	OC	yes	YX N	
10	Lube Oil B1-10	120	OC	yes	YX N	
11	Turbine Hose Stations B1-11	120	OC	yes	YX N	
12	Turbine Bearings B1-12	125	OC	yes	YX N	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	165	OC	Yes	YX N	
2	Ullage Area B2-2	165	OC	Yes	YX N	
3	Ullage Structure B2-11	165	OC	Yes	YX N	
4	Rack 1 Middle Area B2-5	165	OC	Yes	YX N	
5	Overflow Tanks B2-9	163	OC	Yes	YX N	
6	Rack 1 South Area B2-6	163	OC	Yes	YX N	
7	Rack 1 West B2-7	165	OC	Yes	YX N	
8	Rack 1 North Area B2-4	168	OC	Yes	YX N	
9	Over flow AFFF B2-8	160	OC	Yes	YX N	
10	Expansion Vessel AFFF B2-3	160	OC	Yes	YX N	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	OC	yes	YX N	
2	Transformer Main	165	OC	yes	YX N	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	OC	yes	YX N	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	OC	yes	YX N	
2	Offices B4-3	165	OC	yes	YX N	
3	Electrical Room B4-4	165	OC	yes	YX N	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	YX N	OC	
2	Bearing 3	YX N	OC	
3	Bearing 4	YX N	OC	
4	Bearing 5	YX N	OC	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	YX N	OC	
2	MP-200A	YX N	OC	
3	MP-200B	YX N	OC	
4	MP-200C	YX N	OC	
5	MP-200D	YX N	OC	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	168	0	YX N	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	OC	NO	9-1-18	Closed
2	Maintenance Shop Drive Way #8	OC	NO	9-1-18	
3	West Side Power Block by VS-3 # 9	OC	NO	9-1-18	
4	West Side Power Block by VS-1 # 10	OC	NO	9-1-18	
5	West Side Cooling Tower by VS-4 # 11	OC	NO	9-1-18	
6	West side Cooling Tower by VS-4 # 12	OC	NO	9-1-18	
7	N.W. Corner Chemical Storage #1	OC	NO	9-1-18	
8	N.E. Corner Chemical Storage # 2	OC	NO	9-1-18	
9	East Side W.T. by Multimedia Filters # 3	OC	NO	9-1-18	
10	East Side W.T. by Multimedia Filters # 5	OC	NO	9-1-18	
11	North Side Bldg 10 # 6	OC	NO	9-1-18	
12	Between MP-444's and Water Treat # 4	OC	NO	9-1-18	
13	West side Power Block Valve Shed #1	OC	NO	9-1-18	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	YX N	

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 9/9/18	
Operator: Rico T	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 165		
Pump Suction Pressure: 20	Pump Discharge pressure: 165	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 167		
Start time: 5:50 pm		
Pump Suction Pressure: 155	Pump Discharge pressure: 24	
Stop time: 6:00 pm	Total time running 10 min	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input type="checkbox"/> Monthly Fuel Consumption:		
Battery volt Crank 1: 27	Battery volt Crank 2: 27	Battery Condition: <input checked="" type="checkbox"/>
Starting hour meter: 44.7	Start time: 6:01 pm	
Oil pressure start: 64 psi	Oil Pressure finish: 45 psi	
Pump Suction Pressure: 24	Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running: 188		
Stop time: 6:21 pm	Stop hour meter: 45.2	Total time running: 30 min
Comments:		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA ☒

Date: 9-7-18

Operator: Shell

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	130	OK	Yes	Yes N	
2	SG Unit 2 B1-2	130	OK	Yes	Yes N	
3	Reheaters B1-3	133	OK	Yes	Yes N	
4	Rack 2 West HTF B1-4	130	OK	Yes	Yes N	
5	Rack 2 East HTF B1-5	130	OK	Yes	Yes N	
6	North Steel Pro B1-6	130	OK	Yes	Yes N	
7	HTF Pumps B1-7	128	OK	Yes	Yes N	
8	HTF Heaters B1-8	128	OK	Yes	Yes N	
9	South Steel Pro B1-9	130	OK	Yes	Yes N	
10	Lube Oil B1-10	130	OK	Yes	Yes N	
11	Turbine Hose Stations B1-11	130	OK	Yes	Yes N	
12	Turbine Bearings B1-12	133	OK	Yes	Yes N	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	165	OK	Yes	Yes N	
2	Ullage Area B2-2	165	OK	Yes	Yes N	
3	Ullage Structure B2-11	165	OK	Yes	Yes N	
4	Rack 1 Middle Area B2-5	168	OK	Yes	Yes N	
5	Overflow Tanks B2-9	165	OK	Yes	Yes N	
6	Rack 1 South Area B2-6	165	OK	Yes	Yes N	
7	Rack 1 West B2-7	165	OK	Yes	Yes N	
8	Rack 1 North Area B2-4	168	OK	Yes	Yes N	
9	Over flow AFFF B2-8	165	OK	Yes	Yes N	
10	Expansion Vessel AFFF B2-3	163	OK	Yes	Yes N	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	170	OK	Yes	Yes N	
2	Transformer Main	170	OK	Yes	Yes N	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	163	OK	Yes	Yes N	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	OK	Yes	Yes N	
2	Offices B4-3	165	OK	Yes	Yes N	
3	Electrical Room B4-4	165	OK	Yes	Yes N	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes N	OK	
2	Bearing 3	Yes N	OK	
3	Bearing 4	Yes N	OK	
4	Bearing 5	Yes N	OK	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes N	OK	
2	MP-200A	Yes N	OK	
3	MP-200B	Yes N	OK	
4	MP-200C	Yes N	OK	
5	MP-200D	Yes N	OK	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	168	OK	Yes N	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	OK	No	9-1	
2	Maintenance Shop Drive Way #8	OK	No	9-1	
3	West Side Power Block by VS-3 # 9	OK	No	9-1	
4	West Side Power Block by VS-1 # 10	OK	No	9-1	
5	West Side Cooling Tower by VS-4 # 11	OK	No	9-1	
6	West side Cooling Tower by VS-4 # 12	OK	No	9-1	
7	N.W. Corner Chemical Storage #1	OK	No	9-1	
8	N.E. Corner Chemical Storage # 2	OK	No	9-1	
9	East Side W.T. by Multimedia Filters # 3	OK	No	9-1	
10	East Side W.T. by Multimedia Filters # 5	OK	No	9-1	
11	North Side Bldg 10 # 6	OK	No	9-1	
12	Between MP-444's and Water Treat # 4	OK	No	9-1	
13	West side Power Block Valve Shed #1	OK	No	9-1	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes N	

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 9-2-18	
Operator: L. Shell	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 89		
Discharge Pressure: 164		
Pump Suction Pressure: No P.G.	Pump Discharge pressure: 60	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 35		
Start time: 19:53		
Pump Suction Pressure: 15 PSI	Pump Discharge pressure: 155 PSI	
Stop time: 20:02	Total time running 10 min	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input type="checkbox"/> 1/2	Monthly Fuel Consumption:	
Battery volt Crank 1: 26.5	Battery volt Crank 2: 26.5	Battery Condition: good
Starting hour meter: 44.3	Start time: 20:56	
Oil pressure start: 62 PSI	Oil Pressure finish: 45 PSI	
Pump Suction Pressure: 20 PSI	Pump Discharge pressure: 150 PSI	
Coolant temperature after 30 minutes running: 176		
Stop time: 21:26	Stop hour meter: 44.7	Total time running: 30 min.
Comments:		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		



# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 8/31/18

Operator Rico

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	140	LOIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	140	LOIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	140	LOIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	135	LOIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	130	LOIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	130	LOIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	130	LOIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	140	LOIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	140	LOIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	140	LOIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	142	LOIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	140	LOIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	172	LOIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	182	LOIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	172	LOIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	175	LOIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	172	LOIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	175	LOIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	165	LOIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	157	LOIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	LOIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	165	LOIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux		OIC		Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main		OIC		Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side		OIC		Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	158	LOIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	155	LOIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	165	LOIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	LOIC	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	LOIC	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	LOIC	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	LOIC	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	LOIC	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	LOIC	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	LOIC	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	LOIC	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	LOIC	

## Fire Pump House Deluge System

No.	System	PSI	OIC	Locked	Comments
1	Fire Pump House Deluge	168	open	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	OIC	✓	9.1.18	Closed
2	Maintenance Shop Drive Way #8	LOIC	✓	9.1.18	
3	West Side Power Block by VS-3 # 9	LOIC	✓	9.1.18	
4	West Side Power Block by VS-1 # 10	LOIC	✓	9.1.18	
5	West Side Cooling Tower by VS-4 # 11	OIC	✓	9.1.18	Shut for leak on system
6	West side Cooling Tower by VS-4 # 12	LOIC	✓	9.1.18	
7	N.W. Corner Chemical Storage #1	LOIC	✓	9.1.18	
8	N.E. Corner Chemical Storage # 2	LOIC	✓	9.1.18	
9	East Side W.T. by Multimedia Filters # 3	LOIC	✓	9.1.18	
10	East Side W.T. by Multimedia Filters # 5	LOIC	✓	9.1.18	
11	North Side Bldg 10 # 6	LOIC	✓	9.1.18	
12	Between MP-444's and Water Treat # 4	OIC	✓	9.1.18	Shut
13	West side Power Block Valve Shed #1	OIC	✓	9.1.18	Shut

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 8-28-18	
Operator: Larry Shell	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 154		
Discharge Pressure: 162		
Pump Suction Pressure: No PG.	Pump Discharge pressure: 162	
Comments: sat.		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 35 PSI		
Start time: 23:55		
Pump Suction Pressure: 15 PSI	Pump Discharge pressure: 155 PSI	
Stop time: 00:10	Total time running 10 min.	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input type="checkbox"/> 1/2	Monthly Fuel Consumption:	
Battery volt Crank 1: 25	Battery volt Crank 2: 25	Battery Condition: Good
Starting hour meter: 44.0	Start time: 00:08	
Oil pressure start: 66	Oil Pressure finish:	
Pump Suction Pressure: 20 PSI	Pump Discharge pressure: 150 PSI	
Coolant temperature after 30 minutes running: 192		
Stop time: 00:31	Stop hour meter: 44.3	Total time running: 20 min
Comments: Hot Temp out of Range High. 20 min Run.		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 8/24/18

Operator: Rico T

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	175	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	180	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	145	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	150	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	150	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	140	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	145	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	150	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	150	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	150	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	150	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	155	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	155	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	155	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	170	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	155	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	155	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	165	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge			Y <input type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	OK			
2	Maintenance Shop Drive Way #8	OK			
3	West Side Power Block by VS-3 # 9	OK			
4	West Side Power Block by VS-1 # 10	OK			
5	West Side Cooling Tower by VS-4 # 11	OK			
6	West side Cooling Tower by VS-4 # 12	OK			
7	N.W. Corner Chemical Storage #1	OK			
8	N.E. Corner Chemical Storage # 2	OK			
9	East Side W.T. by Multimedia Filters # 3	OK			
10	East Side W.T. by Multimedia Filters # 5	OK			
11	North Side Bldg 10 # 6	OK			
12	Between MP-444's and Water Treat #4	OK			
13	West side Power Block Valve Shed #1	OK			

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 8-19-18	
Operator: Caleb Sowards	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 168		
Pump Suction Pressure: 5	Pump Discharge pressure: 168	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 1516		
Pump Suction Pressure: 5	Pump Discharge pressure: 163	
Stop time: 1526	Total time running 10 min	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> < 1/2	Monthly Fuel Consumption: 40.5	
Battery volt Crank 1: 26	Battery volt Crank 2: 26	Battery Condition: good
Starting hour meter: 43.5	Start time: 1531	
Oil pressure start: 73	Oil Pressure finish: 45	
Pump Suction Pressure: 0	Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running: 187		
Stop time: 1601	Stop hour meter: 44.0	Total time running: 30 min
Comments:		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		



# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 8/17/18

Operator: Manny

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	150	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	150	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	150	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	150	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	150	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	150	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	150	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	150	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	150	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	150	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	150	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	150	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	175	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (to be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	170	O	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	NO		
2	Maintenance Shop Drive Way #8	O/C	NO		
3	West Side Power Block by VS-3 # 9	O/C	NO		
4	West Side Power Block by VS-1 # 10	O/C	NO		
5	West Side Cooling Tower by VS-4 # 11	O/C	NO		
6	West side Cooling Tower by VS-4 # 12	O/C	NO		
7	N.W. Corner Chemical Storage #1	O/C	NO		
8	N.E. Corner Chemical Storage # 2	O/C	NO		
9	East Side W.T. by Multimedia Filters # 3	O/C	NO		
10	East Side W.T. by Multimedia Filters # 5	O/C	NO		
11	North Side Bldg 10 # 6	O/C	NO		
12	Between MP-444's and Water Treat # 4	O/C	NO		
13	West side Power Block Valve Shed #1	O/C	NO		

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 8-12-18	
Operator: Caleb Sowards	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 168		
Pump Suction Pressure: 5	Pump Discharge pressure: 168	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 131		
Pump Suction Pressure: 5	Pump Discharge pressure: 163	
Stop time: 141	Total time running 10 min	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> < 1/2 Monthly Fuel Consumption: 27 gal		
Battery volt Crank 1: 26	Battery volt Crank 2: 26	Battery Condition: good
Starting hour meter: 43.0	Start time: 150	
Oil pressure start: 68	Oil Pressure finish: 46	
Pump Suction Pressure: 0	Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running: 185		
Stop time: 2:20	Stop hour meter: 43.5	Total time running: 30 min
Comments:		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA: ☒ Date: 8-11-18 Operator: Caleb Sowards

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	157	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	180	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	185	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	155	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	175	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	✓ O/C	✓	8-14	
2	Maintenance Shop Drive Way #8	✓ O/C	✓	8-14	
3	West Side Power Block by VS-3 # 9	✓ O/C	✓	8-14	
4	West Side Power Block by VS-1 # 10	✓ O/C	✓	8-14	
5	West Side Cooling Tower by VS-4 # 11	✓ O/C	✓	8-14	
6	West side Cooling Tower by VS-4 # 12	✓ O/C	✓	8-14	
7	N.W. Corner Chemical Storage #1	✓ O/C	✓	8-14	
8	N.E. Corner Chemical Storage # 2	✓ O/C	✓	8-14	
9	East Side W.T. by Multimedia Filters # 3	✓ O/C	✓	8-14	
10	East Side W.T. by Multimedia Filters # 5	✓ O/C	✓	8-14	
11	North Side Bldg 10 # 6	✓ O/C	✓	8-14	
12	Between MP-444's and Water Treat # 4	✓ O/C	✓	8-14	
13	West side Power Block Valve Shed #1	✓ O/C	✓	8-14	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 8-6-18		
Operator: Caleb Sowards	*To be completed each time unit is operated.		
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: 155			
Discharge Pressure: 168			
Pump Suction Pressure: 5		Pump Discharge pressure: 168	
Comments:			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: 145			
Start time: <del>0255</del> 0255			
Pump Suction Pressure: 5		Pump Discharge pressure: 163	
Stop time: <del>0305</del> 0305		Total time running 10 min	
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (> 1/2)		Monthly Fuel Consumption: 13.5	
Battery volt Crank 1: 26	Battery volt Crank 2: 26	Battery Condition: good	
Starting hour meter: 12.5		Start time: 0307	
Oil pressure start: 71		Oil Pressure finish: 45	
Pump Suction Pressure: 0		Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running: 185			
Stop time: 337	Stop hour meter: 43.0	Total time running: 30 min	
Comments:			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.			
Note: Fuel consumption 27 gal/ h approximately.			
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]			



# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 8/3/18

Operator: Manny

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	
2	Bearing 3	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	
3	Bearing 4	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	
4	Bearing 5	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (to be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	
2	MP-200A	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	
3	MP-200B	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	
4	MP-200C	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	
5	MP-200D	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	160	O	Y <input type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	NO	8/3	
2	Maintenance Shop Drive Way #8	O/C	YES	8/3	
3	West Side Power Block by VS-3 # 9	O/C	YES	8/3	
4	West Side Power Block by VS-1 # 10	O/C	YES	8/3	
5	West Side Cooling Tower by VS-4 # 11	O/C	YES	8/3	
6	West side Cooling Tower by VS-4 # 12	O/C	YES	8/3	
7	N.W. Corner Chemical Storage #1	O/C	YES	8/3	
8	N.E. Corner Chemical Storage # 2	O/C	YES	8/3	
9	East Side W.T. by Multimedia Filters # 3	O/C	YES	8/3	
10	East Side W.T. by Multimedia Filters # 5	O/C	YES	8/3	
11	North Side Bldg 10 # 6	O/C	YES	8/3	
12	Between MP-444's and Water Treat # 4	O/C	NO	8/3	
13	West side Power Block Valve Shed #1	O/C	YES	8/3	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 7/27/18	
Operator: MANNY GARCIA	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 165		
Pump Suction Pressure:	Pump Discharge pressure:	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 130		
Start time: 1311		
Pump Suction Pressure: 15 psi	Pump Discharge pressure: 150	
Stop time: 1321	Total time running 10 MIN	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 1/2 Monthly Fuel Consumption:		
Battery volt Crank 1: 27	Battery volt Crank 2: 27	Battery Condition: Good
Starting hour meter: 42.0	Start time: 1328	
Oil pressure start: 1 psi	Oil Pressure finish: 40 psi	
Pump Suction Pressure: 20 psi	Pump Discharge pressure: 150 psi	
Coolant temperature after 30 minutes running: start 138°F → 180		
Stop time: 1358	Stop hour meter: 42.5	Total time running: 30 MINS
Comments:		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 7/27/18

Operator: Manuel Garcia

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	185	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	185	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	170	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	NO	---	
2	Maintenance Shop Drive Way #8	O/C	NO	---	
3	West Side Power Block by VS-3 # 9	O/C	NO	---	
4	West Side Power Block by VS-1 # 10	O/C	NO	---	
5	West Side Cooling Tower by VS-4 # 11	O/C	NO	---	
6	West side Cooling Tower by VS-4 # 12	O/C	NO	---	
7	N.W. Corner Chemical Storage #1	O/C	NO	---	
8	N.E. Corner Chemical Storage # 2	O/C	NO	---	
9	East Side W.T. by Multimedia Filters # 3	O/C	NO	---	
10	East Side W.T. by Multimedia Filters # 5	O/C	NO	---	
11	North Side Bldg 10 # 6	O/C	NO	---	
12	Between MP-444's and Water Treat # 4	O/C	NO	---	
13	West side Power Block Valve Shed #1	O/C	NO	---	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 7-21-18	
Operator: L. Shell	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 148 PSI		
Discharge Pressure: 168 PSI		
Pump Suction Pressure: N/A	Pump Discharge pressure: 165 PSI	
Comments: All good, Back in Auto		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 35 PSI		
Start time: 19:54		
Pump Suction Pressure: 18 PSI	Pump Discharge pressure: 155 PSI	
Stop time: 20:04	Total time running 10 min	
Comments: All good, Back in Auto		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 1/2	Monthly Fuel Consumption:	
Battery volt Crank 1: 26.5	Battery volt Crank 2: 25.0	Battery Condition: good
Starting hour meter: 41.6	Start time: 20:07	
Oil pressure start: 65	Oil Pressure finish: 46.0	
Pump Suction Pressure: 20 PSI	Pump Discharge pressure: 150 PSI	
Coolant temperature after 30 minutes running: 190°		
Stop time: 21:37	Stop hour meter: 42.0	Total time running: 30 min
Comments: RPM 1762		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		



## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 7/15/18	
Operator: Rico	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 150		
Pump Suction Pressure: 90	Pump Discharge pressure: 160	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 160		
Start time: 8:25 pm		
Pump Suction Pressure: 20	Pump Discharge pressure: 155	
Stop time: 8:35 pm	Total time running 10 min	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Monthly Fuel Consumption:		
Battery volt Crank 1: 26.7	Battery volt Crank 2: 26.7	Battery Condition: good
Starting hour meter: 41.2	Start time: 8:35	
Oil pressure start: 61	Oil Pressure finish:	
Pump Suction Pressure: 150	Pump Discharge pressure: 20	
Coolant temperature after 30 minutes running: 187		
Stop time: 9:05 pm	Stop hour meter: 41.6	Total time running: 30 min
Comments:		
Oil smell like diesel		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐ BETA: ☒ Date: 7-22-18 Operator: Rico

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	162	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	175	O	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	NO	7-7	
2	Maintenance Shop Drive Way #8	O/C	NO	7-7	
3	West Side Power Block by VS-3 # 9	O/C	NO	7-7	
4	West Side Power Block by VS-1 # 10	O/C	NO	7-7	
5	West Side Cooling Tower by VS-4 # 11	O/C	NO	7-7	
6	West side Cooling Tower by VS-4 # 12	O/C	NO	7-7	
7	N.W. Corner Chemical Storage #1	O/C	NO	7-7	
8	N.E. Corner Chemical Storage # 2	O/C	NO	7-7	
9	East Side W.T. by Multimedia Filters # 3	O/C	NO	7-7	
10	East Side W.T. by Multimedia Filters # 5	O/C	NO	7-7	
11	North Side Bldg 10 # 6	O/C	NO	7-7	
12	Between MP-444's and Water Treat # 4	O/C	NO	7-7	
13	West side Power Block Valve Shed #1	O/C	NO	7-7	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

# Emergency Diesel Generator Weekly Test Log

Plant:

Alpha

Date:

7-16-18

Operator:

Collin Anderson

Main Generator Breaker		Comments	
Open	✓		
Closed			
Engine		Comments	
Start Time:	2025		
Stop Time:	2040		
Total Run Time:	15 Minutes		
Starting Hour Meter Reading	188.7		
Monthly Fuel Consumption(gal)			
Oil Level	Normal		
Coolant Level	Normal	Coolant Temp. @ Start	63 °c Finish=76 °c
Belt Condition	Good		
Oil Pressure		Start = 7.7 bar	Finish=6.6 bar
Battery Condition	Good		
Battery Voltage	27.3		
Engine RPMs	1800		
Generator		Comments	
Generator Volts	417.4V		
Generator Amps			
Generator "KVA"			
Reason For Use		Comments	
Testing	✓		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered			
Fuel Level	1/4 1/2 3/4 F		
Sulfur Concentrations			
<0.0015% (15ppm)			

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

This engine may operate in response to notification of impending loss of utility back-feed power if the interconnected utility has ordered an outage to the plant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage and the engine is shut immediately after the utility advises that the outage no longer imminent or in effect.

Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐ BETA ☒ Date: 7/13/2018 Operator: Shell

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	OC	Yes	YX N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	OC	Yes	YX N <input type="checkbox"/>	
3	Reheaters B1-3	160	OC	Yes	YX N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	OC	Yes	YX N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	OC	Yes	YX N <input type="checkbox"/>	
6	North Steel Pro B1-6	155	OC	Yes	YX N <input type="checkbox"/>	
7	HTF Pumps B1-7	155	OC	Yes	YX N <input type="checkbox"/>	
8	HTF Heaters B1-8	158	OC	Yes	YX N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	OC	Yes	YX N <input type="checkbox"/>	
10	Lube Oil B1-10	160	OC	Yes	YX N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	OC	Yes	YX N <input type="checkbox"/>	
12	Turbine Bearings B1-12	160	OC	Yes	YX N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	OC	Yes	YX N <input type="checkbox"/>	
2	Ullage Area B2-2	160	OC	Yes	YX N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	OC	Yes	YX N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	OC	Yes	YX N <input type="checkbox"/>	
5	Overflow Tanks B2-9	158	OC	Yes	YX N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	158	OC	Yes	YX N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	OC	Yes	YX N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	OC	Yes	YX N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	OC	Yes	YX N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	155	OC	Yes	YX N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 & Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	185	OC	Yes	YX N <input type="checkbox"/>	
2	Transformer Main	178	OC	Yes	YX N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	175	OC	Yes	YX N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	163	OC	Yes	YX N <input type="checkbox"/>	
2	Offices B4-3	160	OC	Yes	YX N <input type="checkbox"/>	
3	Electrical Room B4-4	160	OC	Yes	YX N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	YX N <input type="checkbox"/>	OC	
2	Bearing 3	YX N <input type="checkbox"/>	OC	
3	Bearing 4	YX N <input type="checkbox"/>	OC	
4	Bearing 5	YX N <input type="checkbox"/>	OC	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	YX N <input type="checkbox"/>	OC	
2	MP-200A	YX N <input type="checkbox"/>	OC	
3	MP-200B	YX N <input type="checkbox"/>	OC	
4	MP-200C	YX N <input type="checkbox"/>	OC	
5	MP-200D	YX N <input type="checkbox"/>	OC	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	155	O	YX N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	OC	NO	7-7-18	
2	Maintenance Shop Drive Way #8	OC	NO	7-7-18	
3	West Side Power Block by VS-3 # 9	OC	NO	7-7-18	
4	West Side Power Block by VS-1 # 10	OC	NO	7-7-18	
5	West Side Cooling Tower by VS-4 # 11	OC	NO	7-7-18	
6	West side Cooling Tower by VS-4 # 12	OC	NO	7-7-18	
7	N.W. Corner Chemical Storage #1	OC	NO	7-7-18	
8	N.E. Corner Chemical Storage # 2	OC	NO	7-7-18	
9	East Side W.T. by Multimedia Filters # 3	OC	NO	7-7-18	
10	East Side W.T. by Multimedia Filters # 5	OC	NO	7-7-18	
11	North Side Bldg 10 # 6	OC	NO	7-7-18	
12	Between MP-444's and Water Treat # 4	OC	NO	7-7-18	
13	West side Power Block Valve Shed #1	OC	NO	7-7-18	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	



## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 7/2/18		
Operator: Manuel Gonia	*To be completed each time unit is operated		
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/> DIESEL TEST ONLY			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure:			
Discharge Pressure:			
Pump Suction Pressure:	Pump Discharge pressure:		
Comments:			
Electric Pump			
Pre-start Inspection: Electrical Feed <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/>			
Start the pump on pressure drop. Start up pressure:			
Start time:			
Pump Suction Pressure:	Pump Discharge pressure:		
Stop time:	Total time running		
Comments: This was a test due to high temp. <sup>1kg</sup>			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Monthly Fuel Consumption:		
Battery volt Crank 1: 27	Battery volt Crank 2: 27	Battery Condition: Good	
Starting hour meter: 40.3	Start time: 11:15		
Oil pressure start: 0.0	Oil Pressure finish: 45 PSI		
Pump Suction Pressure: 20 psi	Pump Discharge pressure: 150 psi		
Coolant temperature after 30 minutes running: 174°F			
Stop time: 11:45	Stop hour meter: 40.8	Total time running: 30 MINS	
Comments:			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.			
Note: Fuel consumption 27 gal/ h approximately.			
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]			

## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 7/6/18		
Operator: Rico	*To be completed each time unit is operated.		
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: 155			
Discharge Pressure: 165			
Pump Suction Pressure: 25		Pump Discharge pressure: 160	
Comments:			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: 166			
Start time: 8:23 pm			
Pump Suction Pressure: <del>155</del> 20		Pump Discharge pressure: 155	
Stop time: 8:33 pm		Total time running 10 Min	
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Monthly Fuel Consumption:	
Battery volt Crank 1: 26.9		Battery volt Crank 2: 26.9	
Starting hour meter: 40.8 41.0		Battery Condition: good	
Oil pressure start: 66		Start time: 8:36 pm	
Pump Suction Pressure: 20		Oil Pressure finish: 46 psi	
Pump Discharge pressure: 150			
Coolant temperature after 30 minutes running: 189°F			
Stop time: 9:06 pm		Stop hour meter: Total time running: 30 Min	
Comments:			
We over the 10 hrs mark a year for Diesel pump			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.			
Note: Fuel consumption 27 gal/h approximately.			
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]			

# Automated Fire Systems Inspection Checklist

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Plant: ALPHA ☐ BETA ☒ Date: 7-6-7 2018 Operator: Shell

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	O/C	yes	YX N	
2	SG Unit 2 B1-2	158	O/C	yes	YX N	
3	Reheaters B1-3	160	O/C	yes	YX N	
4	Rack 2 West HTF B1-4	160	O/C	yes	YX N	
5	Rack 2 East HTF B1-5	158	O/C	yes	YX N	
6	North Steel Pro B1-6	158	O/C	yes	YX N	
7	HTF Pumps B1-7	158	O/C	yes	YX N	
8	HTF Heaters B1-8	158	O/C	yes	YX N	
9	South Steel Pro B1-9	160	O/C	yes	YX N	
10	Lube Oil B1-10	160	O/C	yes	YX N	
11	Turbine Hose Stations B1-11	160	O/C	yes	YX N	
12	Turbine Bearings B1-12	160	O/C	yes	YX N	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	O/C	yes	YX N	
2	Ullage Area B2-2	160	O/C	yes	YX N	
3	Ullage Structure B2-11	160	O/C	yes	YX N	
4	Rack 1 Middle Area B2-5	160	O/C	yes	YX N	
5	Overflow Tanks B2-9	158	O/C	yes	YX N	
6	Rack 1 South Area B2-6	158	O/C	yes	YX N	
7	Rack 1 West B2-7	160	O/C	yes	YX N	
8	Rack 1 North Area B2-4	160	O/C	yes	YX N	
9	Over flow AFFF B2-8	160	O/C	yes	YX N	
10	Expansion Vessel AFFF B2-3	158	O/C	yes	YX N	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	180	O/C	yes	YX N	
2	Transformer Main	180	O/C	yes	YX N	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	158	O/C	yes	YX N	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	163	O/C	yes	YX N	
2	Offices B4-3	163	O/C	yes	YX N	
3	Electrical Room B4-4	163	O/C	yes	YX N	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	YX N	O/C	
2	Bearing 3	YX N	O/C	
3	Bearing 4	YX N	O/C	
4	Bearing 5	YX N	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	YX N	O/C	
2	MP-200A	YX N	O/C	
3	MP-200B	YX N	O/C	
4	MP-200C	YX N	O/C	
5	MP-200D	YX N	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	175	O	YX N	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	yes	7-7-18	#8 closed
2	Maintenance Shop Drive Way #8	O/C	yes	7-7-18	
3	West Side Power Block by VS-3 # 9	O/C	yes	7-7-18	
4	West Side Power Block by VS-1 # 10	O/C	yes	7-7-18	
5	West Side Cooling Tower by VS-4 # 11	O/C	yes	7-7-18	
6	West side Cooling Tower by VS-4 # 12	O/C	yes	7-7-18	
7	N.W. Corner Chemical Storage #1	O/C	yes	7-7-18	
8	N.E. Corner Chemical Storage # 2	O/C	yes	7-7-18	
9	East Side W.T. by Multimedia Filters # 3	O/C	yes	7-7-18	
10	East Side W.T. by Multimedia Filters # 5	O/C	yes	7-7-18	
11	North Side Bldg 10 # 6	O/C	yes	7-7-18	
12	Between MP-444's and Water Treat # 4	O/C	yes	7-7-18	
13	West side Power Block Valve Shed #1	O/C	yes	7-7-18	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	YX N	



## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 7-1-18		
Operator: <i>Shu</i>	*To be completed each time unit is operated.		
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: <i>147</i>			
Discharge Pressure: <i>163</i>			
Pump Suction Pressure: <i>No Gauge</i>		Pump Discharge pressure: <i>163</i>	
Comments: <i>SAT</i>			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: <i>17 PSI</i>			
Start time: <i>01:00</i>			
Pump Suction Pressure: <i>15 PSI</i>		Pump Discharge pressure: <i>155 PSI</i>	
Stop time: <i>01:10</i>		Total time running: <i>10 min.</i>	
Comments: <i>SAT</i>			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> <i>1/2</i>		Monthly Fuel Consumption:	
Battery volt Crank 1: <i>26.5</i>	Battery volt Crank 2: <i>26.5</i>	Battery Condition: <i>Good</i>	
Starting hour meter: <i>40.1</i>		Start time: <i>00343</i>	
Oil pressure start: <i>62</i>		Oil Pressure finish: <i>44</i>	
Pump Suction Pressure: <i>20</i>		Pump Discharge pressure: <i>150</i>	
Coolant temperature after 30 minutes running: <i>187</i>			
Stop time: <i>0057</i>	Stop hour meter: <i>40.3</i>	Total time running: <i>16 min 18 sec</i>	
Comments: <i>RPM's 1762</i> <i>only Ran 16 min 18 seconds then got High Temp Air Filter alarm.</i>			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.			
Note: Fuel consumption 27 gal/ h approximately.			
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]			



# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 6/27/18

Operator: Rico

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	170	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	170	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	170	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side		OK		Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OK	

## Fire Pump House Deluge System

No.	System	PSI	OK	Locked	Comments
1	Fire Pump House Deluge	160	OK	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	OK	no		
2	Maintenance Shop Drive Way #8	OK	no		
3	West Side Power Block by VS-3 # 9	OK	no		
4	West Side Power Block by VS-1 # 10	OK	no		
5	West Side Cooling Tower by VS-4 # 11	OK	no		
6	West side Cooling Tower by VS-4 # 12	OK	no		
7	N.W. Corner Chemical Storage #1	OK	no		
8	N.E. Corner Chemical Storage # 2	OK	no		
9	East Side W.T. by Multimedia Filters # 3	OK	no		
10	East Side W.T. by Multimedia Filters # 5	OK	no		
11	North Side Bldg 10 # 6	OK	no		
12	Between MP-444's and Water Treat # 4	OK	no		
13	West side Power Block Valve Shed #1	OK	no		

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 6-23-18	
Operator: Caleb Sowards	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 165		
Pump Suction Pressure: 5	Pump Discharge pressure: 168	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 0132		
Pump Suction Pressure: 05	Pump Discharge pressure: 163	
Stop time: 0142	Total time running 10 mins	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> < 1/2	Monthly Fuel Consumption:	
Battery volt Crank 1: 26	Battery volt Crank 2: 26	Battery Condition: Good
Starting hour meter: 39.9	Start time: 142	Start up pressure: 135
Oil pressure start: 70	Oil Pressure finish: 45	
Pump Suction Pressure: 0	Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running: 198		
Stop time: 0155	Stop hour meter: 40.1	Total time running: 13 min
Comments: stopped test early High temp charge air cooler		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.		
Note: Fuel consumption 27 gal/ h approximately.		
There is no limit on engine operation for emergency use. (Title 17 CCR 93115.6(a)(4))		

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 6/24/2018

Operator: MANUEL GARCIA

## Valve Shed # 1 by Condenser

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Vlv. Pos.	Comments
1	Bearing 2	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	
2	Bearing 3	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	
3	Bearing 4	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	
4	Bearing 5	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Vlv. Pos.	Comments
1	MP-201	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	
2	MP-200A	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	
3	MP-200B	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	
4	MP-200C	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	
5	MP-200D	Y <input type="checkbox"/> N <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge			Y <input type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	NO	N/A	
2	Maintenance Shop Drive Way #8	O/C	NO		
3	West Side Power Block by VS-3 # 9	O/C	NO		
4	West Side Power Block by VS-1 # 10	O/C	NO		
5	West Side Cooling Tower by VS-4 # 11	O/C	NO		
6	West side Cooling Tower by VS-4 # 12	O/C	NO		
7	N.W. Corner Chemical Storage #1	O/C	NO		
8	N.E. Corner Chemical Storage # 2	O/C	NO		
9	East Side W.T. by Multimedia Filters # 3	O/C	NO		
10	East Side W.T. by Multimedia Filters # 5	O/C	NO		
11	North Side Bldg 10 # 6	O/C	NO		
12	Between MP-444's and Water Treat # 4	O/C	NO		
13	West side Power Block Valve Shed #1	O/C	NO		

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 6-16-18	
Operator: Caleb Sowards	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 168		
Pump Suction Pressure: 5	Pump Discharge pressure: 165	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 1335		
Pump Suction Pressure: 5	Pump Discharge pressure: 163	
Stop time: 1345	Total time running 10 min	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 25/8	Monthly Fuel Consumption:	
Battery volt Crank 1: 26 Battery volt Crank 2: 26	Battery Condition: good	
Starting hour meter: 39.7	Start time: 1346	Start up pressure: 135
Oil pressure start: 71	Oil Pressure finish: 45	
Pump Suction Pressure: 0	Pump Discharge pressure: 160	
Coolant temperature after 30 minutes running: 189		
Stop time: 1401	Stop hour meter: 39.9	Total time running: 16
Comments: stopped test early Hi charge air intake temp alarm		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p><b>Note: Fuel consumption 27 gal/ h approximately.</b></p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		



# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 6/15/18

Operator: Manuel Garcia

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	0	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	✓		
2	Maintenance Shop Drive Way #8	O/C	✓		
3	West Side Power Block by VS-3 # 9	O/C	✓		
4	West Side Power Block by VS-1 # 10	O/C	✓		
5	West Side Cooling Tower by VS-4 # 11	O/C	✓		
6	West side Cooling Tower by VS-4 # 12	O/C	✓		
7	N.W. Corner Chemical Storage #1	O/C	✓		
8	N.E. Corner Chemical Storage # 2	O/C	✓		
9	East Side W.T. by Multimedia Filters # 3	O/C	✓		
10	East Side W.T. by Multimedia Filters # 5	O/C	✓		
11	North Side Bldg 10 # 6	O/C	✓		
12	Between MP-444's and Water Treat # 4	O/C	✓		
13	West side Power Block Valve Shed #1	O/C	✓		

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 5-10-18	
Operator: Caleb Sowards	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 168		
Pump Suction Pressure: 6	Pump Discharge pressure: 168	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 0901		
Pump Suction Pressure: 5	Pump Discharge pressure: 168	
Stop time: 0905	Total time running 40 min	
Comments: Just Ran long enough to observe packing leak		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> < 1/2	Monthly Fuel Consumption:	
Battery volt Crank 1: 26 Battery volt Crank 2: 26	Battery Condition: good	
Starting hour meter: 39.4	Start time: 0909	Start up pressure: 135
Oil pressure start: 71	Oil Pressure finish: 44	
Pump Suction Pressure: 0	Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running: 189		
Stop time: 0931	Stop hour meter: 39.7	Total time running: 22 min
Comments: Charge Air cooler inlet temp Hi Stopped test early		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25- "Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p><b>Note: Fuel consumption 27 gal/ h approximately.</b></p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 6/8/18

Operator: MANUEL GARCIA

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	175	O	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	NO	---	
2	Maintenance Shop Drive Way #8	O/C	NO	---	
3	West Side Power Block by VS-3 # 9	O/C	NO	---	
4	West Side Power Block by VS-1 # 10	O/C	NO	---	
5	West Side Cooling Tower by VS-4 # 11	O/C	NO	---	
6	West side Cooling Tower by VS-4 # 12	O/C	NO	---	
7	N.W. Corner Chemical Storage #1	O/C	NO	---	
8	N.E. Corner Chemical Storage # 2	O/C	NO	---	
9	East Side W.T. by Multimedia Filters # 3	O/C	NO	---	
10	East Side W.T. by Multimedia Filters # 5	O/C	NO	---	
11	North Side Bldg 10 # 6	O/C	NO	---	
12	Between MP-444's and Water Treat # 4	O/C	NO	---	
13	West side Power Block Valve Shed #1	O/C	NO	---	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 6/2/2018	
Operator: MANUEL GARCIA	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 15.3 psi		
Discharge Pressure: 165 psi		
Pump Suction Pressure: N/A Pump Discharge pressure: 165 psi		
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 150 psi		
Start time: 10:10		
Pump Suction Pressure: 15 psi Pump Discharge pressure: 155 psi		
Stop time: 10:20 Total time running 10 MINS		
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 1/2 Monthly Fuel Consumption:		
Battery volt Crank 1: 27v Battery volt Crank 2: 27v Battery Condition: Good		
Starting hour meter: 37.9 hours Start time: 10:39 Start up pressure: 15 psi		
Oil pressure start: 1 psi Oil Pressure finish: 44 psi		
Pump Suction Pressure: 20 psi Pump Discharge pressure: 150 psi		
Coolant temperature after 30 minutes running: 189°F		
Stop time: 11:09 Stop hour meter: 38. Total time running: 30 MINS		
Comments: RAN PUMP W/ GLEN		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25- Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems* (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.		
Note: Fuel consumption 27 gal/ h approximately.		
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]		



# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 06/01/18

Operator: MANUEL GARCIA

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	165	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	165	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	OK	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input type="checkbox"/> N <input type="checkbox"/>	OK	
2	Bearing 3	Y <input type="checkbox"/> N <input type="checkbox"/>	OK	
3	Bearing 4	Y <input type="checkbox"/> N <input type="checkbox"/>	OK	
4	Bearing 5	Y <input type="checkbox"/> N <input type="checkbox"/>	OK	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input type="checkbox"/> N <input type="checkbox"/>	OK	
2	MP-200A	Y <input type="checkbox"/> N <input type="checkbox"/>	OK	
3	MP-200B	Y <input type="checkbox"/> N <input type="checkbox"/>	OK	
4	MP-200C	Y <input type="checkbox"/> N <input type="checkbox"/>	OK	
5	MP-200D	Y <input type="checkbox"/> N <input type="checkbox"/>	OK	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	170	0	Y <input type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	OK	—	6/1/18	
2	Maintenance Shop Drive Way #8	OK	YES	6/1/18	
3	West Side Power Block by VS-3 # 9	OK	YES	6/1/18	
4	West Side Power Block by VS-1 # 10	OK	YES	6/1/18	
5	West Side Cooling Tower by VS-4 # 11	OK	YES	6/1/18	
6	West side Cooling Tower by VS-4 # 12	OK	YES	6/1/18	
7	N.W. Corner Chemical Storage #1	OK	YES	6/1/18	
8	N.E. Corner Chemical Storage #2	OK	YES	6/1/18	
9	East Side W.T. by Multimedia Filters # 3	OK	YES	6/1/18	
10	East Side W.T. by Multimedia Filters # 5	OK	YES	6/1/18	
11	North Side Bldg 10 # 6	OK	YES	6/1/18	
12	Between MP-444's and Water Treat # 4	OK	—	—	
13	West side Power Block Valve Shed #1	OK	YES	6/1/18	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information			
Plant:	Alpha <input type="checkbox"/>	Beta <input checked="" type="checkbox"/>	Date: 5-27-18
Operator:	Shells		*To be completed each time unit is operated.
Reason for running pumps:	Weekly test <input checked="" type="checkbox"/>	Maintenance <input type="checkbox"/>	Emergency <input type="checkbox"/>
Jockey Electric Pump			
Pre-start Inspection:	Electrical Feed <input checked="" type="checkbox"/>	Mechanical <input checked="" type="checkbox"/>	Valves <input checked="" type="checkbox"/>
Check the jockey pump on pressure drop. Start up pressure: 155			
Discharge Pressure: 164			
Pump Suction Pressure: NO PG.		Pump Discharge pressure: 164	
Comments: Set.			
Electric Pump			
Pre-start Inspection:	Electrical Feed <input checked="" type="checkbox"/>	Mechanical <input checked="" type="checkbox"/>	Valves <input checked="" type="checkbox"/>
Start the pump on pressure drop. Start up pressure: 155			
Start time: 21:16			
Pump Suction Pressure: 12 PSI		Pump Discharge pressure: 150	
Stop time: 21:26		Total time running 10 min	
Comments:			
Diesel Pump			
Pre-start Inspection:	Coolant <input checked="" type="checkbox"/>	Oil <input checked="" type="checkbox"/>	Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>
Fuel level > 2/3:	Yes <input type="checkbox"/>	No <input type="checkbox"/>	1/2 Monthly Fuel Consumption:
Battery volt Crank 1: 26.5	Battery volt Crank 2: 26.5	Battery Condition: Good	
Starting hour meter: 37.7	Start time: 21:29 Start up pressure:		
Oil pressure start: 64	Oil Pressure finish:		
Pump Suction Pressure: 18 PSI	Pump Discharge pressure: 150		
Coolant temperature after 30 minutes running:			
Stop time: 21:44	Stop hour meter: 37.9	Total time running: 15 min	
Comments: Alarm change, Air Filter, Temp High. only ran for 15 min.			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.			
Note: Fuel consumption 27 gal/h approximately.			
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]			

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐ BETA: ☒ Date: 5/25/18 Operator: Rico

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	163	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	163	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	158	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	163	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	170	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	170	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	163	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	163	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	

## HTF Deluge System Valves (To be Locked In the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	NO	5-5-18	
2	Maintenance Shop Drive Way #8	✓ O/C	NO	5-5-18	
3	West Side Power Block by VS-3 # 9	✓ O/C	NO	5-5-18	
4	West Side Power Block by VS-1 # 10	✓ O/C	NO	5-5-18	
5	West Side Cooling Tower by VS-4 # 11	✓ O/C	NO	5-5-18	
6	West side Cooling Tower by VS-4 # 12	✓ O/C	NO	5-5-18	
7	N.W. Corner Chemical Storage #1	✓ O/C	NO	5-5-18	
8	N.E. Corner Chemical Storage # 2	✓ O/C	NO	5-5-18	
9	East Side W.T. by Multimedia Filters # 3	✓ O/C	NO	5-5-18	
10	East Side W.T. by Multimedia Filters # 5	✓ O/C	NO	5-5-18	
11	North Side Bldg 10 # 6	✓ O/C	NO	5-5-18	
12	Between MP-444's and Water Treat # 4	O/C	NO	5-5-18	
13	West side Power Block Valve Shed #1	✓ O/C	NO	5-5-18	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 5-21-18	
Operator: Caleb Sowards	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 168		
Pump Suction Pressure: 5	Pump Discharge pressure: 168	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 0317		
Pump Suction Pressure: 5	Pump Discharge pressure: 166	
Stop time: 0327	Total time running 10 min	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> < 1/2	Monthly Fuel Consumption:	
Battery volt Crank 1: 26 Battery volt Crank 2: 26	Battery Condition: good	
Starting hour meter: 37.5	Start time: 0325	Start up pressure: 135
Oil pressure start: 62	Oil Pressure finish: 45	
Pump Suction Pressure: 0	Pump Discharge pressure: 160	
Coolant temperature after 30 minutes running: 187		
Stop time: 0343	Stop hour meter: 37.7	Total time running: 17 min
Comments: Needs an oil change engine oil smells like Diesel and is a little High Pump stopped test high intake temp		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25- "Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.		
Note: Fuel consumption 27 gal/ h approximately.		
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]		



# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 5/18/18

Operator: Rico

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	165	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	185	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	168	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	165	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	180	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	178	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	165	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	165	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	160	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	165	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	165	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge			Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	✓		
2	Maintenance Shop Drive Way #8	✓			
3	West Side Power Block by VS-3 # 9	✓			
4	West Side Power Block by VS-1 # 10	O/C			
5	West Side Cooling Tower by VS-4 # 11	✓			
6	West side Cooling Tower by VS-4 # 12	✓			
7	N.W. Corner Chemical Storage #1	✓			
8	N.E. Corner Chemical Storage # 2	✓			
9	East Side W.T. by Multimedia Filters # 3	✓			
10	East Side W.T. by Multimedia Filters # 5	✓			
11	North Side Bldg 10 # 6	✓			
12	Between MP-444's and Water Treat # 4	O/C			
13	West side Power Block Valve Shed #1	✓			

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 5/12/19		
Operator: Rico	*To be completed each time unit is operated.		
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: 155			
Discharge Pressure: 160			
Pump Suction Pressure: 20		Pump Discharge pressure: 150	
Comments:			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: 167 psi			
Start time: 8:35 pm			
Pump Suction Pressure: 20 psi		Pump Discharge pressure: 150	
Stop time: 8:45 pm		Total time running 10 min	
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input type="checkbox"/> No <input type="checkbox"/>		Monthly Fuel Consumption:	
Battery volt Crank 1: 27 Battery volt Crank 2: 27		Battery Condition: good	
Starting hour meter: 37.1		Start time: 8:45 pm Start up pressure: 163	
Oil pressure start: 73 psi		Oil Pressure finish: 45 psi	
Pump Suction Pressure: 20		Pump Discharge pressure: 150	
Coolant temperature after 30 minutes running: 189° F			
Stop time: 9:15 pm		Stop hour meter: 37.5 Total time running: 30 min	
Comments:			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.			
Note: Fuel consumption 27 gal/ h approximately.			
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]			

## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input type="checkbox"/>	Beta <input checked="" type="checkbox"/>	Date: 5/5/18	
Operator: Rico		*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: 155			
Discharge Pressure: 20			
Pump Suction Pressure: 20		Pump Discharge pressure: 155	
Comments:			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: 165			
Start time: 6:15 pm			
Pump Suction Pressure: 20		Pump Discharge pressure: 155	
Stop time: 6:25 pm		Total time running 10 min	
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input type="checkbox"/> No <input type="checkbox"/>		Monthly Fuel Consumption:	
Battery volt Crank 1: 27.3		Battery volt Crank 2: 27.3	
Starting hour meter: 36.7		Battery Condition: good	
Oil pressure start: 64 psi		Start time: 6:25 pm	
Pump Suction Pressure: 20		Start up pressure: 150	
Oil Pressure finish: 45 psi		Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running: 189°F			
Stop time: 6:55 pm		Stop hour meter: 37.1	
		Total time running: 30 min	
Comments:			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.			
Note: Fuel consumption 27 gal/ h approximately.			
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]			

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 5-5-18

Operator L. S/he/ll

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	163	O/C	yes	YX N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C	yes	YX N <input type="checkbox"/>	
3	Reheaters B1-3	163	O/C	yes	YX N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	O/C	yes	YX N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	O/C	yes	YX N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	O/C	yes	YX N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	O/C	yes	YX N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	O/C	yes	YX N <input type="checkbox"/>	
9	South Steel Pro B1-9	162	O/C	yes	YX N <input type="checkbox"/>	
10	Lube Oil B1-10	160	O/C	yes	YX N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	O/C	yes	YX N <input type="checkbox"/>	
12	Turbine Bearings B1-12	165	O/C	yes	YX N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	O/C	yes	YX N <input type="checkbox"/>	
2	Ullage Area B2-2	162	O/C	yes	YX N <input type="checkbox"/>	
3	Ullage Structure B2-11	162	O/C	yes	YX N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	162	O/C	yes	YX N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	O/C	yes	YX N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	162	O/C	yes	YX N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	O/C	yes	YX N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	165	O/C	yes	YX N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	O/C	yes	YX N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	O/C	yes	YX N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	168	O/C	yes	YX N <input type="checkbox"/>	
2	Transformer Main	168	O/C	yes	YX N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	O/C	yes	YX N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	163	O/C	yes	YX N <input type="checkbox"/>	
2	Offices B4-3	163	O/C	yes	YX N <input type="checkbox"/>	
3	Electrical Room B4-4	163	O/C	yes	YX N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	YX N <input type="checkbox"/>	O/C	
2	Bearing 3	YX N <input type="checkbox"/>	O/C	
3	Bearing 4	YX N <input type="checkbox"/>	O/C	
4	Bearing 5	YX N <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked In the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	YX N <input type="checkbox"/>	O/C	
2	MP-200A	YX N <input type="checkbox"/>	O/C	
3	MP-200B	YX N <input type="checkbox"/>	O/C	
4	MP-200C	YX N <input type="checkbox"/>	O/C	
5	MP-200D	YX N <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	175	O	YX N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	yes	5-5-18	#7 Closed
2	Maintenance Shop Drive Way #8	O/C	yes	5-5-18	
3	West Side Power Block by VS-3 # 9	O/C	yes	5-5-18	
4	West Side Power Block by VS-1 # 10	O/C	yes	5-5-18	
5	West Side Cooling Tower by VS-4 # 11	O/C	yes	5-5-18	
6	West side Cooling Tower by VS-4 # 12	O/C	yes	5-5-18	
7	N.W. Corner Chemical Storage #1	O/C	yes	5-5-18	
8	N.E. Corner Chemical Storage # 2	O/C	yes	5-5-18	
9	East Side W.T. by Multimedia Filters # 3	O/C	yes	5-5-18	
10	East Side W.T. by Multimedia Filters # 5	O/C	yes	5-5-18	
11	North Side Bldg 10 # 6	O/C	yes	5-5-18	
12	Between MP-444's and Water Treat # 4	O/C	yes	5-5-18	#4 Closed
13	West side Power Block Valve Shed #1	O/C	yes	5-5-18	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	YX N <input type="checkbox"/>	



## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 4-28-18		
Operator: PHIL TOURGEUS	*To be completed each time unit is operated.		
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: 155			
Discharge Pressure: 165			
Pump Suction Pressure: 20		Pump Discharge pressure: 165	
Comments:			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: 145			
Start time: 22:37			
Pump Suction Pressure: 20		Pump Discharge pressure: 155	
Stop time: 22:47		Total time running 10 mins	
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 50%		Monthly Fuel Consumption: N/A	
Battery volt Crank 1: 26.7		Battery Condition: GOOD	
Starting hour meter: 36.3		Start time: 22:05 Start up pressure: 135	
Oil pressure start: 66		Oil Pressure finish: 46	
Pump Suction Pressure: 20		Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running: 187			
Stop time: 22:35		Stop hour meter: 36.7 Total time running: 30 mins	
Comments:			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.			
Note: Fuel consumption 27 gal/ h approximately.			
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]			

## Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐BETA: ☒

Date:

4-28-18

Operator

PHIL TOURLEUS

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	LOTO B TRAIN
3	Reheaters B1-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	175	O	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	✓		
2	Maintenance Shop Drive Way #8	O/C	✓		
3	West Side Power Block by VS-3 # 9	O/C	✓		
4	West Side Power Block by VS-1 # 10	O/C	✓		
5	West Side Cooling Tower by VS-4 # 11	O/C	✓		
6	West side Cooling Tower by VS-4 # 12	O/C	✓		
7	N.W. Corner Chemical Storage #1	O/C	✓		
8	N.E. Corner Chemical Storage # 2	O/C	✓		
9	East Side W.T. by Multimedia Filters # 3	O/C	✓		
10	East Side W.T. by Multimedia Filters # 5	O/C	✓		
11	North Side Bldg 10 # 6	O/C	✓		
12	Between MP-444's and Water Treat # 4	O/C	✓		

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

PIV #13  
BY VS#1OPEN  
LOCKED

## Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐BETA: ☒

Date:

4/22/18

Operator

Manny Garcia

## Valve Shed # 1 by Condenser

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	O/C	✓	Y3 N□	
2	SG Unit 2 B1-2	160	O/C	✓	Y3 N□	
3	Reheaters B1-3	165	O/C	✓	Y3 N□	
4	Rack 2 West HTF B1-4	160	O/C	✓	Y3 N□	
5	Rack 2 East HTF B1-5	160	O/C	✓	Y3 N□	
6	North Steel Pro B1-6	160	O/C	✓	Y3 N□	
7	HTF Pumps B1-7	160	O/C	✓	Y3 N□	
8	HTF Heaters B1-8	160	O/C	✓	Y3 N□	
9	South Steel Pro B1-9	160	O/C	✓	Y3 N□	
10	Lube Oil B1-10	160	O/C	✓	Y3 N□	
11	Turbine Hose Stations B1-11	160	O/C	✓	Y3 N□	
12	Turbine Bearings B1-12	165	O/C	✓	Y3 N□	

## Valve Shed # 2 by Overflow

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	O/C	✓	Y3 N□	
2	Ullage Area B2-2	160	O/C	✓	Y3 N□	
3	Ullage Structure B2-11	160	O/C	✓	Y3 N□	
4	Rack 1 Middle Area B2-5	160	O/C	✓	Y3 N□	
5	Overflow Tanks B2-9	160	O/C	✓	Y3 N□	
6	Rack 1 South Area B2-6	160	O/C	✓	Y3 N□	
7	Rack 1 West B2-7	165	O/C	✓	Y3 N□	
8	Rack 1 North Area B2-4	160	O/C	✓	Y3 N□	
9	Over flow AFFF B2-8	160	O/C	✓	Y3 N□	
10	Expansion Vessel AFFF B2-3	160	O/C	✓	Y3 N□	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Transformer Aux	280	O/C	✓	Y3 N□	
2	Transformer Main	0	O/C	✓	Y3 N□	OUT SERVICE FOR OUTAGE (Fire Watch)

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	O/C	✓	Y3 N□	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	O/C	✓	Y3 N□	
2	Offices B4-3	160	O/C	✓	Y3 N□	
3	Electrical Room B4-4	160	O/C	✓	Y3 N□	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Vlv. Pos.	Comments
1	Bearing 2	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Vlv. Pos.	Comments
1	MP-201	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	175	0	Y3 N□	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	NO		
2	Maintenance Shop Drive Way #8	O/C	NO		
3	West Side Power Block by VS-3 # 9	O/C	NO		
4	West Side Power Block by VS-1 # 10	O/C	NO		
5	West Side Cooling Tower by VS-4 # 11	O/C	NO		
6	West side Cooling Tower by VS-4 # 12	O/C	NO		
7	N.W. Corner Chemical Storage #1	O/C	NO		
8	N.E. Corner Chemical Storage # 2	O/C	NO		
9	East Side W.T. by Multimedia Filters # 3	O/C	NO		
10	East Side W.T. by Multimedia Filters # 5	O/C	NO		
11	North Side Bldg 10 # 8	O/C	NO		
12	Between MP-444's and Water Treat # 4	O/C	NO		

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	



## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 4-23-18	
Operator: Phil Tourgeus	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 165		
Pump Suction Pressure: 20	Pump Discharge pressure: 165	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/>		
Start the pump on pressure drop. Start up pressure:		
Start time: NOT TESTED		
Pump Suction Pressure:	Pump Discharge pressure:	
Stop time: Total time running		
Comments: EMERGENCY DIESEL GENERATOR RUNNING, YARD OPEN. DID NOT WANT TO OVERLOAD		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 50% Monthly Fuel Consumption:		
Battery volt Crank 1: 26.7	Battery volt Crank 2: 26.7	Battery Condition: GOOD
Starting hour meter: 35.8	Start time: 0130	
Oil pressure start: 67	Oil Pressure finish: 45	
Pump Suction Pressure: 20	Pump Discharge pressure: 150	
Coolant temperature after 30 minutes running: 187		
Stop time: 0200	Stop hour meter: 36.3	Total time running: 30 mins
Comments: FUEL AT 50% LEVEL		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		



## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 4-14-18	
Operator: PHIL TOUGHER	*To be completed each time unit is operated	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 165		
Pump Suction Pressure: 20	Pump Discharge pressure: 165	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 0620		
Pump Suction Pressure: 20	Pump Discharge pressure: 155	
Stop time: 0630	Total time running 10 min	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 50% Monthly Fuel Consumption:		
Battery volt Crank 1: 26.7	Battery volt Crank 2: 26.6	Battery Condition: Good
Starting hour meter: 35.3	Start time: 0550	
Oil pressure start: 64	Oil Pressure finish: 47	
Pump Suction Pressure: 20 PSI	Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running: 181		133 START
Stop time: 0620	Stop hour meter: 35.8	Total time running: 30 min
Comments:		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 4-9-18	
Operator: Shell	*To be completed each time unit is operated	
Reason for running pumps: Weekly test <input type="checkbox"/> Maintenance <input checked="" type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure:		
Discharge Pressure:		
Pump Suction Pressure:	Pump Discharge pressure:	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input type="checkbox"/> Mechanical <input type="checkbox"/> Valves <input type="checkbox"/>		
Start the pump on pressure drop. Start up pressure:		
Start time:		
Pump Suction Pressure:	Pump Discharge pressure:	
Stop time:	Total time running	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input type="checkbox"/> 1/2	Monthly Fuel Consumption:	
Battery volt Crank 1: 26.5	Battery volt Crank 2: 26.5	Battery Condition: Good
Starting hour meter: 35.1	Start time: 10:19	
Oil pressure start: 60	Oil Pressure finish: 31.	
Pump Suction Pressure: 20	Pump Discharge pressure: 150	
Coolant temperature after 30 minutes running: 185		
Stop time: 11:34	Stop hour meter: 35.3	Total time running: 15 min
Comments: This test run was conducted to variable low oil pressure alarm. SKL		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In operation, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.		
Note: Fuel consumption 27 gal/h approximately.		
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]		

## Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐BETA ☒

Date: 4-9-18

Operator: Shell

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	O/C	Yes	Yes <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C	Yes	Yes <input type="checkbox"/>	
3	Reheaters B1-3	165	O/C	Yes	Yes <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	O/C	Yes	Yes <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	O/C	Yes	Yes <input type="checkbox"/>	
6	North Steel Pro B1-6	160	O/C	Yes	Yes <input type="checkbox"/>	
7	HTF Pumps B1-7	160	O/C	Yes	Yes <input type="checkbox"/>	
8	HTF Heaters B1-8	160	O/C	Yes	Yes <input type="checkbox"/>	
9	South Steel Pro B1-9	160	O/C	Yes	Yes <input type="checkbox"/>	
10	Lube Oil B1-10	160	O/C	Yes	Yes <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	O/C	Yes	Yes <input type="checkbox"/>	
12	Turbine Bearings B1-12	165	O/C	Yes	Yes <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	O/C	Yes	Yes <input type="checkbox"/>	
2	Ullage Area B2-2	160	O/C	Yes	Yes <input type="checkbox"/>	
3	Ullage Structure B2-11	160	O/C	Yes	Yes <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	O/C	Yes	Yes <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	O/C	Yes	Yes <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	O/C	Yes	Yes <input type="checkbox"/>	
7	Rack 1 West B2-7	160	O/C	Yes	Yes <input type="checkbox"/>	
8	Rack 1 North Area B2-4	165	O/C	Yes	Yes <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	O/C	Yes	Yes <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	O/C	Yes	Yes <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	O/C	Yes	Yes <input type="checkbox"/>	
2	Transformer Main	160	O/C	Yes	Yes <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	O/C	Yes	Yes <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	O/C	Yes	Yes <input type="checkbox"/>	
2	Offices B4-3	160	O/C	Yes	Yes <input type="checkbox"/>	
3	Electrical Room B4-4	165	O/C	Yes	Yes <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	175	O	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	No	4-6-18	
2	Maintenance Shop Drive Way #8	O/C	No	4-6-18	
3	West Side Power Block by VS-3 # 9	O/C	No	4-6-18	
4	West Side Power Block by VS-1 # 10	O/C	No	4-6-18	
5	West Side Cooling Tower by VS-4 # 11	O/C	No	4-6-18	
6	West side Cooling Tower by VS-4 # 12	O/C	No	4-6-18	
7	N.W. Corner Chemical Storage #1	O/C	No	4-6-18	
8	N.E. Corner Chemical Storage # 2	O/C	No	4-6-18	
9	East Side W.T. by Multimedia Filters # 3	O/C	No	4-6-18	
10	East Side W.T. by Multimedia Filters # 5	O/C	No	4-6-18	
11	North Side Bldg 10 # 6	O/C	No	4-6-18	
12	Between MP-444's and Water Treat # 4	O/C	No	4-6-18	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

PSI 160 by Condenser

open No 4-6-18



## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 4-7-18	
Operator: Caleb Sowards	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 165		
Pump Suction Pressure: 5	Pump Discharge pressure: 168	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 15-13		
Pump Suction Pressure: 0	Pump Discharge pressure: 160	
Stop time: 1525	Total time running 10 min	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 1/2	Monthly Fuel Consumption: 13.5	
Battery volt Crank 1: 86	Battery volt Crank 2: 26	Battery Condition: good
Starting hour meter: 348	Start time: 1528	
Oil pressure start: 59	Oil Pressure finish: Low	
Pump Suction Pressure: 5	Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running: 201		
Stop time: 1553	Stop hour meter: 35.1	Total time running: 475 min
Comments: Stopped test early on low oil pressure		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.		
Note: Fuel consumption 27 gal/h approximately.		
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]		



## Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐BETA: ☒

Date: 4-12-18

Operator: PHIL TOURGELS

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3	Reheaters B1-3	160	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
6	North Steel Pro B1-6	160	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
7	HTF Pumps B1-7	160	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
8	HTF Heaters B1-8	165	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
9	South Steel Pro B1-9	160	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
10	Lube Oil B1-10	160	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
12	Turbine Bearings B1-12	160	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Ullage Area B2-2	160	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3	Ullage Structure B2-11	160	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
7	Rack 1 West B2-7	160	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Transformer Main	165	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2	Offices B4-3	165	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3	Electrical Room B4-4	165	O/C	✓	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	170	O/C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	✓		
2	Maintenance Shop Drive Way #8	O/C	✓		
3	West Side Power Block by VS-3 # 9	O/C	✓		
4	West Side Power Block by VS-1 # 10	O/C	✓		
5	West Side Cooling Tower by VS-4 # 11	O/C	✓		
6	West side Cooling Tower by VS-4 # 12	O/C	✓		
7	N.W. Corner Chemical Storage #1	O/C	✓		
8	N.E. Corner Chemical Storage # 2	O/C	✓		
9	East Side W.T. by Multimedia Filters # 3	O/C	✓		
10	East Side W.T. by Multimedia Filters # 5	O/C	✓		
11	North Side Bldg 10 # 6	O/C	✓		
12	Between MP-444's and Water Treat # 4	O/C	✓		

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

## Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐BETA: ☒

Date: 4/6/18

Operator: MANNY GARCIA

## Valve Shed # 1 by Condenser

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	165	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	165	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	160	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	165	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	165	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	165	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Transformer Aux	180	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	180	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	160	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	OC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Vlv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Vlv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	

## Fire Pump House Deluge System

No.	System	PSI	OC	Locked	Comments
1	Fire Pump House Deluge	160	OC	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	OC	✓	4/6	
2	Maintenance Shop Drive Way #8	OC	✓	4/6	
3	West Side Power Block by VS-3 # 9	OC	✓	4/6	
4	West Side Power Block by VS-1 # 10	OC	✓	4/6	
5	West Side Cooling Tower by VS-4 # 11	OC	✓	4/6	
6	West side Cooling Tower by VS-4 # 12	OC	✓	4/6	
7	N.W. Corner Chemical Storage #1	OC	✓	4/6	
8	N.E. Corner Chemical Storage # 2	OC	✓	4/6	
9	East Side W.T. by Multimedia Filters # 3	OC	✓	4/6	
10	East Side W.T. by Multimedia Filters # 5	OC	✓	4/6	
11	North Side Bldg 10 # 6	OC	✓	4/6	
12	Between MP-444's and Water Treat # 4	OC	✓	4/6	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 4/1/18	
Operator: Rico	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 150		
Pump Suction Pressure: 20	Pump Discharge pressure: 170	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 160		
Start time: 6:53 pm		
Pump Suction Pressure: 20	Pump Discharge pressure: 150	
Stop time: 6:58 pm	Total time running: 5 min	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input type="checkbox"/>	Monthly Fuel Consumption:	
Battery volt Crank 1: Battery volt Crank 2: 27	Battery Condition: good	
Starting hour meter: 34.4	Start time: 7:00 pm	
Oil pressure start: 63	Oil Pressure finish: 24	
Pump Suction Pressure: 155	Pump Discharge pressure: 20	
Coolant temperature after 30 minutes running: 194°F		
Stop time: 7:30 pm	Stop hour meter: 34.8	Total time running: 30 min
Comments: low oil pressure came on		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		



## Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐BETA ☒

Date: 4-1-18

Operator: Shell

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	O/C	YES	YX N	
2	SG Unit 2 B1-2	160	O/C	YES	YX N	
3	Reheaters B1-3	163	O/C	YES	YX N	
4	Rack 2 West HTF B1-4	160	O/C	YES	YX N	
5	Rack 2 East HTF B1-5	160	O/C	YES	YX N	
6	North Steel Pro B1-6	160	O/C	YES	YX N	
7	HTF Pumps B1-7	160	O/C	YES	YX N	
8	HTF Heaters B1-8	160	O/C	YES	YX N	
9	South Steel Pro B1-9	160	O/C	YES	YX N	
10	Lube Oil B1-10	160	O/C	YES	YX N	
11	Turbine Hose Stations B1-11	160	O/C	YES	YX N	
12	Turbine Bearings B1-12	163	O/C	YES	YX N	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	O/C	YES	YX N	
2	Ullage Area B2-2	162	O/C	YES	YX N	
3	Ullage Structure B2-11	160	O/C	YES	YX N	
4	Rack 1 Middle Area B2-5	160	O/C	YES	YX N	
5	Overflow Tanks B2-9	160	O/C	YES	YX N	
6	Rack 1 South Area B2-6	160	O/C	YES	YX N	
7	Rack 1 West B2-7	162	O/C	YES	YX N	
8	Rack 1 North Area B2-4	163	O/C	YES	YX N	
9	Over flow AFFF B2-8	160	O/C	YES	YX N	
10	Expansion Vessel AFFF B2-3	160	O/C	YES	YX N	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	180	O/C	YES	YX N	
2	Transformer Main	180	O/C	YES	YX N	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	O/C	YES	YX N	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	163	O/C	YES	YX N	
2	Offices B4-3	163	O/C	YES	YX N	
3	Electrical Room B4-4	163	O/C	YES	YX N	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	175	O	YX N	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	NO	3-3-18	
2	Maintenance Shop Drive Way #8	O/C	NO	3-3-18	
3	West Side Power Block by VS-3 # 9	O/C	NO	3-3-18	
4	West Side Power Block by VS-1 # 10	O/C	NO	3-3-18	
5	West Side Cooling Tower by VS-4 # 11	O/C	NO	3-3-18	
6	West side Cooling Tower by VS-4 # 12	O/C	NO	3-3-18	
7	N.W. Corner Chemical Storage #1	O/C	NO	3-3-18	
8	N.E. Corner Chemical Storage # 2	O/C	NO	3-3-18	
9	East Side W.T. by Multimedia Filters # 3	O/C	NO	3-3-18	
10	East Side W.T. by Multimedia Filters # 5	O/C	NO	3-3-18	
11	North Side Bldg 10 # 8	O/C	NO	3-3-18	
12	Between MP-444's and Water Treat # 4	O/C	NO	3-3-18	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

PIV-13 West Side Turbine

open NO 3-3-18



## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 3-24-18	
Operator: Slett	*To be completed each time unit is operated	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure:	153	
Discharge Pressure:	162	
Pump Suction Pressure: N/A NO Gauge	Pump Discharge pressure:	
Comments: In Auto		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure:	158	
Start time:	23:22	
Pump Suction Pressure: 15 PSI	Pump Discharge pressure: 165	
Stop time: 23:32	Total time running: 10 min	
Comments: In Auto		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 1/2	Monthly Fuel Consumption:	
Battery volt Crank 1: 26.3	Battery volt Crank 2: 26.5	Battery Condition: Good
Starting hour meter: 34.0	Start time: 23:35	
Oil pressure start: 56	Oil Pressure finish: 27	
Pump Suction Pressure: 20	Pump Discharge pressure: 153	
Coolant temperature after 30 minutes running: 187°		
Stop time: 00:05	Stop hour meter: 34.4	Total time running: 30 min
Comments: In Auto		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/ h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 3/24/18

Operator: Rico T

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	
3	Reheaters B1-3	165	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	
6	North Steel Pro B1-6	160	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	
7	HTF Pumps B1-7	165	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	
8	HTF Heaters B1-8	170	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	
9	South Steel Pro B1-9	165	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	
10	Lube Oil B1-10	165	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	165	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	
12	Turbine Bearings B1-12	160	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	165	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	
2	Usage Area B2-2	165	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	
3	Usage Structure B2-11	165	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	170	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	
7	Rack 1 West B2-7	160	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	
9	Over flow AFFF B2-8	165	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	165	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	170	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	
2	Transformer Main	165	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	170	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	
2	Offices B4-3	160	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	
3	Electrical Room B4-4	165	O/C	✓	Yes <input type="checkbox"/> No <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge		O/C	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	✓		
2	Maintenance Shop Drive Way #8	O/C	✓		
3	West Side Power Block by VS-3 # 9	O/C	✓		
4	West Side Power Block by VS-1 # 10	O/C	✓		
5	West Side Cooling Tower by VS-4 # 11	O/C	✓		
6	West side Cooling Tower by VS-4 # 12	O/C	✓		
7	N.W. Corner Chemical Storage #1	O/C	✓		
8	N.E. Corner Chemical Storage # 2	O/C	✓		
9	East Side W.T. by Multimedia Filters # 3	O/C	✓		
10	East Side W.T. by Multimedia Filters # 5	O/C	✓		
11	North Side Bldg 10 # 6	O/C	✓		
12	Between MP-444's and Water Treat # 4	O/C	✓		

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

04

## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 3-17-18		
Operator: Shell	*To be completed each time unit is operated.		
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure:	158		
Discharge Pressure:	163		
Pump Suction Pressure: NO BURGE	Pump Discharge pressure: 163		
Comments: SAT			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure:	158		
Start time: 0945 2145			
Pump Suction Pressure: 15 PSI	Pump Discharge pressure: 166		
Stop time: 21:55	Total time running	10 min	
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Monthly Fuel Consumption:		
Battery volt Crank 1: 26.5	Battery volt Crank 2: 26	Battery Condition: Good	
Starting hour meter: 33.5	Start time: 21:58		
Oil pressure start: 52	Oil Pressure finish: 27.		
Pump Suction Pressure: 20 PSI	Pump Discharge pressure: 150		
Coolant temperature after 30 minutes running:	189		
Stop time: 22:29	Stop hour meter: 34.0	Total time running: 30 min	
Comments: all pumps in auto mode.			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.			
Note: Fuel consumption 27 gal/ h approximately.			
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]			



# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 3.17.18

Operator: RWT

## Valve Shed # 1 by Condenser

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	170	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	170	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	170	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	163	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	163	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	170	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	163	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side		O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Vlv. Pos.	Comments
1	Bearing 2	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Vlv. Pos.	Comments
1	MP-201	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	170		Y <input type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	checked		Shut
2	Maintenance Shop Drive Way #8	O/C			
3	West Side Power Block by VS-3 # 9	O/C			
4	West Side Power Block by VS-1 # 10	O/C			
5	West Side Cooling Tower by VS-4 # 11	O/C			
6	West side Cooling Tower by VS-4 # 12	O/C			
7	N.W. Corner Chemical Storage #1	O/C			
8	N.E. Corner Chemical Storage # 2	O/C			
9	East Side W.T. by Multimedia Filters # 3	O/C			
10	East Side W.T. by Multimedia Filters # 5	O/C			
11	North Side Bldg 10 # 6	O/C			
12	Between MP-444's and Water Treat # 4	O/C			Shut

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	



## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 3/10/18		
Operator: Rico	*To be completed each time unit is operated.		
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: 155			
Discharge Pressure: 150			
Pump Suction Pressure: N/A		Pump Discharge pressure: 155	
Comments:			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: 166			
Start time: 5:50 PM			
Pump Suction Pressure: 25		Pump Discharge pressure: 155	
Stop time: 6:00 PM		Total time running: 10 Min	
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input type="checkbox"/>			
Fuel level > 2/3: Yes <input type="checkbox"/> No <input type="checkbox"/>		Monthly Fuel Consumption: 13.5	
Battery volt Crank 1: 27 Battery volt Crank 2: 27		Battery Condition: good	
Starting hour meter: 33.1		Start time: 6:00 PM	
Oil pressure start: 64		Oil Pressure finish: 30	
Pump Suction Pressure: 25		Pump Discharge pressure: 150	
Coolant temperature after 30 minutes running: 189°F			
Stop time: 6:30 PM		Stop hour meter: 33.5	
Total time running: 30 Min			
Comments: low oil pressure Alarm Reset it			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance instructions. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.			
Note: Fuel consumption 27 gal/ h approximately.			
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]			

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐ BETA ☒ Date: 3-9-18 Operator: shell

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	OC	yes	YX N	
2	SG Unit 2 B1-2	160	OC	yes	YX N	
3	Reheaters B1-3	160	OC	yes	YX N	
4	Rack 2 West HTF B1-4	160	OC	yes	YX N	
5	Rack 2 East HTF B1-5	160	OC	yes	YX N	
6	North Steel Pro B1-6	160	OC	yes	YX N	
7	HTF Pumps B1-7	160	OC	yes	YX N	
8	HTF Heaters B1-8	160	OC	yes	YX N	
9	South Steel Pro B1-9	160	OC	yes	YX N	
10	Lube Oil B1-10	160	OC	yes	YX N	
11	Turbine Hose Stations B1-11	160	OC	yes	YX N	
12	Turbine Bearings B1-12	160	OC	yes	YX N	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	155	OC	yes	YX N	
2	Ullage Area B2-2	160	OC	yes	YX N	
3	Ullage Structure B2-11	158	OC	yes	YX N	
4	Rack 1 Middle Area B2-5	158	OC	yes	YX N	
5	Overflow Tanks B2-9	158	OC	yes	YX N	
6	Rack 1 South Area B2-6	158	OC	yes	YX N	
7	Rack 1 West B2-7	160	OC	yes	YX N	
8	Rack 1 North Area B2-4	160	OC	yes	YX N	
9	Over flow AFFF B2-8	155	OC	yes	YX N	
10	Expansion Vessel AFFF B2-3	155	OC	yes	YX N	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	170	OC	yes	YX N	
2	Transformer Main	173	OC	yes	YX N	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	155	OC	yes	YX N	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	OC	yes	YX N	
2	Offices B4-3	165	OC	yes	YX N	
3	Electrical Room B4-4	165	OC	yes	YX N	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OC	

## Fire Pump House Deluge System

No.	System	PSI	OC	Locked	Comments
1	Fire Pump House Deluge	170	0	YX N	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	OC	NO	3-3-18	
2	Maintenance Shop Drive Way #8	OC	NO	3-3-18	
3	West Side Power Block by VS-3 #9	OC	NO	3-3-18	
4	West Side Power Block by VS-1 #10	OC	NO	3-3-18	
5	West Side Cooling Tower by VS-4 #11	OC	NO	3-3-18	
6	West side Cooling Tower by VS-4 #12	OC	NO	3-3-18	
7	N.W. Corner Chemical Storage #1	OC	NO	3-3-18	
8	N.E. Corner Chemical Storage #2	OC	NO	3-3-18	
9	East Side W.T. by Multimedia Filters #3	OC	NO	3-3-18	
10	East Side W.T. by Multimedia Filters #5	OC	NO	3-3-18	
11	North Side Bldg 10 #6	OC	NO	3-3-18	
12	Between MP-444's and Water Treat #4	OC	NO	3-3-18	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

13 West side Condenser @c No 3-3-18

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 3-3-18	
Operator: Caleb Sowards	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 175		
Pump Suction Pressure: 15	Pump Discharge pressure: 175	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 1401		
Pump Suction Pressure: 152.35	Pump Discharge pressure: 155	
Stop time: 1411	Total time running 10 min	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Monthly Fuel Consumption: 54 gal	
Battery volt Crank 1: 26	Battery volt Crank 2: 26	Battery Condition: Good
Starting hour meter: 32.6	Start time: 1415	
Oil pressure start: 60	Oil Pressure finish: 23	
Pump Suction Pressure: 20	Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running: 184		
Stop time: 1445	Stop hour meter: 33.1	Total time running: 30 min
Comments:		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		



# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 5-12-18

Operator: Catch Sowards

## Valve Shed # 1 by Condenser

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	155	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Transformer Aux	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	155	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Vlv. Pos.	Comments
1	Bearing 2	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Vlv. Pos.	Comments
1	MP-201	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	175	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C ✓	NO	5-5-18	
2	Maintenance Shop Drive Way #8	✓ O/C	NO	5-5-18	
3	West Side Power Block by VS-3 # 9	✓ O/C	NO	5-3-18	
4	West Side Power Block by VS-1 # 10	✓ O/C	NO	5-3-18	
5	West Side Cooling Tower by VS-4 # 11	✓ O/C	NO	5-5-18	
6	West side Cooling Tower by VS-4 # 12	✓ O/C	NO	5-5-18	
7	N.W. Corner Chemical Storage #1	✓ O/C	NO	5-5-18	
8	N.E. Corner Chemical Storage # 2	✓ O/C	NO	5-5-18	
9	East Side W.T. by Multimedia Filters # 3	✓ O/C	NO	5-5-18	
10	East Side W.T. by Multimedia Filters # 5	✓ O/C	NO	5-5-18	
11	North Side Bldg 10 # 6	✓ O/C	NO	5-3-18	
12	Between MP-444's and Water Treat # 4	O/C ✓	NO	5-3-18	
13	West side Power Block Valve Shed #1	✓ O/C	NO	5-5-18	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	



## Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐BETA: ☒

Date: 3-3-18

Operator: Caleb Saunders

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	155	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	155	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	155	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	155	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	150	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	155	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	155	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	155	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	170	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	195	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	205	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	155	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	155	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	155	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	170	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	NO		
2	Maintenance Shop Drive Way #8	O/C	YES	3/3/18	
3	West Side Power Block by VS-3 # 9	O/C	YES	3/3/18	
4	West Side Power Block by VS-1 # 10	O/C	YES	3/3/18	
5	West Side Cooling Tower by VS-4 # 11	O/C	YES	3/3/18	
6	West side Cooling Tower by VS-4 # 12	O/C	YES	3/3/18	
7	N.W. Corner Chemical Storage #1	O/C	YES	3/3/18	
8	N.E. Corner Chemical Storage # 2	O/C	YES	3/3/18	
9	East Side W.T. by Multimedia Filters # 3	O/C	YES	3/3/18	
10	East Side W.T. by Multimedia Filters # 5	O/C	YES	3/3/18	
11	North Side Bldg 10 # 6	O/C	YES	3/3/18	
12	Between MP-444's and Water Treat # 4	O/C	NO	3/3/18	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

# ABENGOA

Mojave Solar LLC

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 2/24/18	
Operator: MANNY GARCIA	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 161		
Pump Suction Pressure: N/A	Pump Discharge pressure: 161	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 148 psi		
Start time: 14:50		
Pump Suction Pressure: 20 psi	Pump Discharge pressure: 155 psi	
Stop time: 15:00	Total time running 10 MINS	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Monthly Fuel Consumption: 27	
Battery volt Crank 1: 27 Battery volt Crank 2: 27	Battery Condition: Good	
Starting hour meter: 32.1	Start time: 15:01	
Oil pressure start: 1 psi	Oil Pressure finish: 32	
Pump Suction Pressure: 20 psi	Pump Discharge pressure: 155 psi	
Coolant temperature after 30 minutes running: 183°F		
Stop time: 15:31	Stop hour meter: 32.6	Total time running: 30 MINS
Comments: ENG RPM 1764		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA ☒

Date:

2/24/18

Operator

MANNY

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	17.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	17.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	11.5	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	11.5	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	NO		
2	Maintenance Shop Drive Way #8	O/C	NO		
3	West Side Power Block by VS-3 # 9	O/C	NO		
4	West Side Power Block by VS-1 # 10	O/C	NO		
5	West Side Cooling Tower by VS-4 # 11	O/C	NO		
6	West side Cooling Tower by VS-4 # 12	O/C	NO		
7	N.W. Corner Chemical Storage #1	O/C	NO		
8	N.E. Corner Chemical Storage # 2	O/C	NO		
9	East Side W.T. by Multimedia Filters # 3	O/C	NO		
10	East Side W.T. by Multimedia Filters # 5	O/C	NO		
11	North Side Bldg 10 # 6	O/C	NO		
12	Between MP-444's and Water Treat # 4	O/C	NO		

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	



# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 2/17/18

Operator: MANUEL GARCIA

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	170	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	165	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	O	Y <input type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	NO	N/A	
2	Maintenance Shop Drive Way #8	O/C	NO	N/A	
3	West Side Power Block by VS-3 # 9	O/C	NO	N/A	
4	West Side Power Block by VS-1 # 10	O/C	NO	N/A	
5	West Side Cooling Tower by VS-4 # 11	O/C	NO	N/A	
6	West side Cooling Tower by VS-4 # 12	O/C	NO	N/A	
7	N.W. Corner Chemical Storage #1	O/C	NO	N/A	
8	N.E. Corner Chemical Storage # 2	O/C	NO	N/A	
9	East Side W.T. by Multimedia Filters # 3	O/C	NO	N/A	
10	East Side W.T. by Multimedia Filters # 5	O/C	NO	N/A	
11	North Side Bldg 10 # 6	O/C	NO	N/A	
12	Between MP-444's and Water Treat # 4	O/C	NO	N/A	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	



## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 2-18-18	
Operator: PHIL T	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 165		
Pump Suction Pressure: 15	Pump Discharge pressure: 165	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 23:00		
Pump Suction Pressure: 15	Pump Discharge pressure: 165	
Stop time: 23:10	Total time running 10 mins	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Monthly Fuel Consumption: N/A	
Battery volt Crank 1: 26.7	Battery volt Crank 2: 26.7	Battery Condition: GOOD
Starting hour meter: 31.6	Start time: 23:11	
Oil pressure start: 61	Oil Pressure finish: 26	
Pump Suction Pressure: 20	Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running: 189		
Stop time: 23:41	Stop hour meter: 32.1	Total time running: 30 mins
Comments:		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

## Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐BETA: ☒

Date: 2-9-18

Operator: PHIL

## Valve Shed # 1 by Condenser

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Vlv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Vlv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Vlv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	170	O	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	N		
2	Maintenance Shop Drive Way #8	O/C	N		
3	West Side Power Block by VS-3 # 9	O/C	N		
4	West Side Power Block by VS-1 # 10	O/C	N		
5	West Side Cooling Tower by VS-4 # 11	O/C	N		
6	West side Cooling Tower by VS-4 # 12	O/C	N		
7	N.W. Corner Chemical Storage #1	O/C	N		
8	N.E. Corner Chemical Storage # 2	O/C	N		
9	East Side W.T. by Multimedia Filters # 3	O/C	N		
10	East Side W.T. by Multimedia Filters # 5	O/C	N		
11	North Side Bldg 10 # 6	O/C	N		
12	Between MP-444's and Water Treat # 4	O/C	N		

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

## Fire Pump Weekly Test Log

General Information		
Plant: <input checked="" type="checkbox"/> Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 2/9/18	
Operator: <u>Manny</u>	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: <u>155 psi</u>		
Discharge Pressure: <u>165 psi</u>		
Pump Suction Pressure: <u>N/A</u>	Pump Discharge pressure: <u>165 psi</u>	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: <u>10 psi</u> → <u>166 psi</u>		
Start time: <u>19:51</u>		
Pump Suction Pressure: <u>15 psi</u>	Pump Discharge pressure: <u>155 psi</u>	
Stop time: <u>20:01</u>	Total time running: <u>10 MINS</u>	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Monthly Fuel Consumption:		
Battery volt Crank 1: <u>27</u>	Battery volt Crank 2: <u>27v</u>	Battery Condition: <u>Good</u>
Starting hour meter: <u>31.1</u>	Start time: <u>20:02</u>	
Oil pressure start: <u>1 psi</u>	Oil Pressure finish: <u>28 psi</u>	
Pump Suction Pressure: <u>20 psi</u>	Pump Discharge pressure: <u>150 psi</u>	
Coolant temperature after 30 minutes running: <u>192°F</u>		
Stop time: <u>20:32</u>	Stop hour meter: <u>31.6</u>	Total time running: <u>30 MINS</u>
Comments: <u>LOW OIL PRESS ALARM @ END</u> <u>HAD TO TURN SYSTEM OFF &amp; ON TO REMOVE</u>		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.		
Note: Fuel consumption 27 gal/h approximately.		
There is no limit on engine operation for emergency use. (Title 17 CCR 93115.6(a)(4))		



## Fire Pump Weekly Test Log

General Information			
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 2/4/18		
Operator: Rico	*To be completed each time unit is operated.		
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>			
Jockey Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Check the jockey pump on pressure drop. Start up pressure: 155			
Discharge Pressure: 150			
Pump Suction Pressure: 20		Pump Discharge pressure: 165	
Comments:			
Electric Pump			
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>			
Start the pump on pressure drop. Start up pressure: 165			
Start time: 6:38 pm			
Pump Suction Pressure: 20		Pump Discharge pressure: 150	
Stop time: 6:48		Total time running 10 min	
Comments:			
Diesel Pump			
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>			
Fuel level > 2/3: Yes <input type="checkbox"/> No <input type="checkbox"/> halfway Monthly Fuel Consumption:			
Battery volt Crank 1: 27		Battery Condition: <input checked="" type="checkbox"/>	
Starting hour meter: 30.7		Start time: 6:50 pm	
Oil pressure start: 63		Oil Pressure finish:	
Pump Suction Pressure: 150 20		Pump Discharge pressure: 150	
Coolant temperature after 30 minutes running: 189			
Stop time: 7:25 pm		Total time running: 30 min	
Comments:			
engine oil pressure low Alarm			
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).			
This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25- "Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.			
Note: Fuel consumption 27 gal/ h approximately.			
There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]			



# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 1-26-18

Operator: Shell

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	167	O/C	YES	YX N	
2	SG Unit 2 B1-2	165	O/C	YES	YX N	
3	Reheaters B1-3	170	O/C	YES	YX N	
4	Rack 2 West HTF B1-4	163	O/C	YES	YX N	
5	Rack 2 East HTF B1-5	165	O/C	YES	YX N	
6	North Steel Pro B1-6	165	O/C	YES	YX N	
7	HTF Pumps B1-7	165	O/C	YES	YX N	
8	HTF Heaters B1-8	165	O/C	YES	YX N	
9	South Steel Pro B1-9	168	O/C	YES	YX N	
10	Lube Oil B1-10	165	O/C	YES	YX N	
11	Turbine Hose Stations B1-11	165	O/C	YES	YX N	
12	Turbine Bearings B1-12	170	O/C	YES	YX N	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	165	O/C	YES	YX N	
2	Ullage Area B2-2	168	O/C	YES	YX N	
3	Ullage Structure B2-11	167	O/C	YES	YX N	
4	Rack 1 Middle Area B2-5	168	O/C	YES	YX N	
5	Overflow Tanks B2-9	168	O/C	YES	YX N	
6	Rack 1 South Area B2-6	168	O/C	YES	YX N	
7	Rack 1 West B2-7	168	O/C	YES	YX N	
8	Rack 1 North Area B2-4	170	O/C	YES	YX N	
9	Over flow AFFF B2-8	167	O/C	YES	YX N	
10	Expansion Vessel AFFF B2-3	165	O/C	YES	YX N	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	O/C	YES	YX N	
2	Transformer Main	165	O/C	YES	YX N	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	O/C	YES	YX N	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	170	O/C	YES	YX N	
2	Offices B4-3	170	O/C	YES	YX N	
3	Electrical Room B4-4	170	O/C	YES	YX N	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	O/C	YX N	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	NO	12-2-17	
2	Maintenance Shop Drive Way #8	O/C	NO	12-2-17	
3	West Side Power Block by VS-3 # 9	O/C	NO	12-2-17	
4	West Side Power Block by VS-1 # 10	O/C	NO	12-2-17	
5	West Side Cooling Tower by VS-4 # 11	O/C	NO	12-2-17	
6	West side Cooling Tower by VS-4 # 12	O/C	NO	12-2-17	
7	N.W. Corner Chemical Storage #1	O/C	NO	12-2-17	
8	N.E. Corner Chemical Storage # 2	O/C	NO	12-2-17	
9	East Side W.T. by Multimedia Filters # 3	O/C	NO	12-2-17	
10	East Side W.T. by Multimedia Filters # 5	O/C	NO	12-2-17	
11	North Side Bldg 10 # 6	O/C	NO	12-2-17	
12	Between MP-444's and Water Treat # 4	O/C	NO	12-2-17	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	NO Debris

PIV-13 Not on this list its open, Not Cycled. Last Cycle 12-2-17?

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 1-28-18	
Operator: Rico	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 160		
Pump Suction Pressure: 20 psi	Pump Discharge pressure: 165	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 165		
Start time: 6:15 pm		
Pump Suction Pressure: 20 psi	Pump Discharge pressure: 155	
Stop time: 6:25 pm	Total time running 10 min	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Monthly Fuel Consumption:	
Battery volt Crank 1: 27.3	Battery volt Crank 2: 27.3	Battery Condition: good
Starting hour meter: 30.2	Start time: 6:26 pm	
Oil pressure start: 60	Oil Pressure finish: 28	
Pump Suction Pressure: 155	Pump Discharge pressure: 20 psi	
Coolant temperature after 30 minutes running: 189°F		
Stop time: 6:57 pm	Stop hour meter: 30.6	Total time running: 30 min
Comments:		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 1-19-18	
Operator: Shell	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 136		
Discharge Pressure: 160		
Pump Suction Pressure: No P.G.	Pump Discharge pressure: 162	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 165		
Start time: 23:30		
Pump Suction Pressure: 15 PSI	Pump Discharge pressure: 150	
Stop time: 23:40	Total time running: 10 min.	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 1/2	Monthly Fuel Consumption:	
Battery volt Crank 1: 26.5	Battery volt Crank 2: 26	Battery Condition: Good
Starting hour meter: 29.7	Start time: 23:43	
Oil pressure start: 57	Oil Pressure finish: 29	
Pump Suction Pressure: 20 PSI	Pump Discharge pressure: 153	
Coolant temperature after 30 minutes running: 189		
Stop time: 00:12	Stop hour meter: 30.2	Total time running: 30 min.
Comments: RPM 1764		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p>Note: Fuel consumption 27 gal/h approximately.</p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

## Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐BETA: ☒

Date: 1-18-18

Operator: Rico Thompson

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	167	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	163	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	170	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	167	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	167	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	170	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	170	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	167	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	170	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	170	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	165	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	170	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	170	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side		O/C		Y <input type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓ O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge			Y <input type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	no		
2	Maintenance Shop Drive Way #8	✓ O/C	no		
3	West Side Power Block by VS-3 # 9	✓ O/C	no		
4	West Side Power Block by VS-1 # 10	✓ O/C	no		
5	West Side Cooling Tower by VS-4 # 11	✓ O/C	no		
6	West side Cooling Tower by VS-4 # 12	✓ O/C	no		
7	N.W. Corner Chemical Storage #1	✓ O/C	no		
8	N.E. Corner Chemical Storage # 2	✓ O/C	no		
9	East Side W.T. by Multimedia Filters # 3	✓ O/C	no		
10	East Side W.T. by Multimedia Filters # 5	✓ O/C	no		
11	North Side Bldg 10 # 6	✓ O/C	no		
12	Between MP-444's and Water Treat # 4	O/C	no		

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	



## Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 1-14-18	
Operator: Phil	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 165		
Pump Suction Pressure: NA	Pump Discharge pressure: 165	
Comments:		
Electric Pump		
Pre-start Inspection: Electrical Feed <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/>		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 0226		
Pump Suction Pressure: 20	Pump Discharge pressure: 155	
Stop time: 0230	Total time running 10 mins	
Comments:		
Diesel Pump		
Pre-start Inspection: Coolant <input checked="" type="checkbox"/> Oil <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Valves <input checked="" type="checkbox"/> Water Jacket Heater <input checked="" type="checkbox"/>		
Fuel level > 2/3: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Monthly Fuel Consumption: NA	
Battery volt Crank 1: 26.7 Battery volt Crank 2: 26.7	Battery Condition: Good	
Starting hour meter: 29.2	Start time: 0238	
Oil pressure start: 52	Oil Pressure finish: 31	
Pump Suction Pressure: 20	Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running: 185		
Stop time: 0308	Stop hour meter: 29.7	Total time running: 30 min
Comments:		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p><b>Note: Fuel consumption 27 gal/ h approximately.</b></p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 1-13-18

Operator: Rico

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	165	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	170	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	165	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	170	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	170	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OK	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OK	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OK	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OK	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OK	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OK	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OK	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OK	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OK	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	OK	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	OK	no		
2	Maintenance Shop Drive Way #8	OK	no		
3	West Side Power Block by VS-3 # 9	OK	no		
4	West Side Power Block by VS-1 # 10	OK	no		
5	West Side Cooling Tower by VS-4 # 11	OK	no		
6	West side Cooling Tower by VS-4 # 12	OK	no		
7	N.W. Corner Chemical Storage #1	OK	no		
8	N.E. Corner Chemical Storage # 2	OK	no		
9	East Side W.T. by Multimedia Filters # 3	OK	no		
10	East Side W.T. by Multimedia Filters # 5	OK	no		
11	North Side Bldg 10 # 6	OK	no		
12	Between MP-444's and Water Treat # 4	OK	no		

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Mojave Solar LLC

## Fire System Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 1-6-16	
Operator: Phil	*To be completed each time unit is operated.	
Reason for running pumps: Weekly test <input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Emergency <input type="checkbox"/>		
Jockey Electric Pump		
Check the jockey pump on pressure drop. Start up pressure: 155		
Discharge Pressure: 165		
Comments:		
Electric Pump		
Start the pump on pressure drop. Start up pressure: 145		
Start time: 15:37		
Pump discharge pressure: 165		
Stop time: 15:47 Total time running 10 mins		
Comments:		
Diesel Pump		
Oil level before start up:		
Low fuel level alarm in the panel: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Battery volt Crank 1: 26.7	Battery volt Crank 2: 26.8	Battery Condition: GOOD
Starting hour meter: 28.7	Start time: 1550	
Oil pressure start: 60	Oil Pressure finish: 28	
Pump discharge pressure: 150	Fuel Level 3/4	
Coolant temperature after running: 184	Engine RPM	1760
Stop time: 16:20	Stop hour meter: 29.2	Total time running: 30 mins
Comments:		
For the 3 pumps, confirm control turned back to "auto" after tests and system with proper alignment: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Sulfur Concentrations (less than or equal to 0.0015% on a weight per weight basis).		
<p>This new direct drive fire pump engine shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this engine shall be operated no more than 30 minutes in any one hour and no more than 10 hours per year for initial start-up testing and compliance demonstrations. Additionally, this engine shall not be operated more than the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25-"Standards for the Inspection, Testing, and Maintenance of Water Based Fire Systems" (current edition). The hours of operation for source testing will not be counted towards either of the allowable annual limits above.</p> <p><b>Note: Fuel consumption 27 gal/ h approximately.</b></p> <p>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</p>		

## Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐BETA: ☒

Date:

1-6-18

Operator

PHIL

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Lube Oil B1-10	155	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Turbine Bearings B1-12	160	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Turbine Hose Stations B1-11	155	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	SG Unit 1 B1-1	165	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	SG Unit 2 B1-2	165	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Reheaters B1-3	160	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 2 East HTF B1-5	165	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 2 West HTF B1-4	155	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	HTF Heaters B1-8	155	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	North Steel Pro B1-6	165	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	South Steel Pro B1-9	165	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	HTF Pumps B1-7	160	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Rack 1 Middle Area B2-5	160	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Overflow Tanks B2-9	155	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Expansion Vessels B2-1	155	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Ullage Area B2-2	155	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 1 South Area B2-6	160	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 West B2-7	160	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 North Area B2-4	165	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Ullage Structure B2-11	160	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	155	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	155	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	205	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	205	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	160	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	160	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks To Be Cycled First Saturday of Every Month

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		
2	Maintenance Shop Drive Way #8	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		
3	West Side Power Block by VS-3 # 9	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		
4	West Side Power Block by VS-1 # 10	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		
5	West Side Cooling Tower by VS-4 # 11	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		
6	West side Cooling Tower by VS-4 # 12	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		
7	N.W. Corner Chemical Storage #1	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		
8	N.E. Corner Chemical Storage # 2	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		
9	East Side W.T. by Multimedia Filters # 3	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		
10	East Side W.T. by Multimedia Filters # 5	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		
11	North Side Bldg 10 # 6	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		
12	Between MP-444's and Water Treat # 4	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		
13	West Side Power Block by VS-1	O/C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	



Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐

BETA: ☒

Date: 1/6/2018

Operator: MANNY

Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Lube Oil B1-10	165	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Turbine Bearings B1-12	165	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Turbine Hose Stations B1-11	160	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	SG Unit 1 B1-1	165	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	SG Unit 2 B1-2	165	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	Reheaters B1-3	170	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	Rack 2 East HTF B1-5	160	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	Rack 2 West HTF B1-4	160	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	HTF Heaters B1-8	160	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	North Steel Pro B1-6	160	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	
11	South Steel Pro B1-9	165	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	
12	HTF Pumps B1-7	160	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	

Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Rack 1 Middle Area B2-5	160	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Overflow Tanks B2-9	160	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Expansion Vessels B2-1	165	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Ullage Area B2-2	165	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Rack 1 South Area B2-6	170	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 West B2-7	160	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 North Area B2-4	160	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	Ullage Structure B2-11	165	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	165	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	165	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	

Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	205	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	205	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	

Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	

Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	165	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	165	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>	

Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	

HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input type="checkbox"/> No <input type="checkbox"/>	O/C	

Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	170	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>	

PIV Checks To Be Cycled First Saturday of Every Month

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>		
2	Maintenance Shop Drive Way #8	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>		
3	West Side Power Block by VS-3 # 9	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>		
4	West Side Power Block by VS-1 # 10	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>		
5	West Side Cooling Tower by VS-4 # 11	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>		
6	West side Cooling Tower by VS-4 # 12	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>		
7	N.W. Corner Chemical Storage #1	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>		
8	N.E. Corner Chemical Storage # 2	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>		
9	East Side W.T. by Multimedia Filters # 3	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>		
10	East Side W.T. by Multimedia Filters # 5	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>		
11	North Side Bldg 10 # 6	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>		
12	Between MP-444's and Water Treat # 4	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>		
13	West Side Power Block by VS-1	O/C	Y <input type="checkbox"/> N <input type="checkbox"/>		

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☐ BETA ☒ Date: 1-2-18 Operator: Shell

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	165	O/C	yes	Y N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C	yes	Y N <input type="checkbox"/>	
3	Reheaters B1-3	165	O/C	yes	Y N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	163	O/C	yes	Y N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	163	O/C	yes	Y N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	O/C	yes	Y N <input type="checkbox"/>	
7	HTF Pumps B1-7	162	O/C	yes	Y N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	O/C	yes	Y N <input type="checkbox"/>	
9	South Steel Pro B1-9	165	O/C	yes	Y N <input type="checkbox"/>	
10	Lube Oil B1-10	165	O/C	yes	Y N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	O/C	yes	Y N <input type="checkbox"/>	
12	Turbine Bearings B1-12	165	O/C	yes	Y N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	O/C	yes	Y N <input type="checkbox"/>	
2	Ullage Area B2-2	165	O/C	yes	Y N <input type="checkbox"/>	
3	Ullage Structure B2-11	165	O/C	yes	Y N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	163	O/C	yes	Y N <input type="checkbox"/>	
5	Overflow Tanks B2-9	162	O/C	yes	Y N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	163	O/C	yes	Y N <input type="checkbox"/>	
7	Rack 1 West B2-7	163	O/C	yes	Y N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	165	O/C	yes	Y N <input type="checkbox"/>	
9	Over flow AFFF B2-8	163	O/C	yes	Y N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	O/C	yes	Y N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	O/C	yes	Y N <input type="checkbox"/>	
2	Transformer Main	165	O/C	yes	Y N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	163	O/C	yes	Y N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	162	O/C	yes	Y N <input type="checkbox"/>	
2	Offices B4-3	162	O/C	yes	Y N <input type="checkbox"/>	
3	Electrical Room B4-4	162	O/C	yes	Y N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	168	yes	Y N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	yes	2-3-18	
2	Maintenance Shop Drive Way #8	O/C	yes	2-3-18	
3	West Side Power Block by VS-3 # 9	O/C	yes	2-3-18	
4	West Side Power Block by VS-1 # 10	O/C	yes	2-3-18	
5	West Side Cooling Tower by VS-4 # 11	O/C	yes	2-3-18	
6	West side Cooling Tower by VS-4 # 12	O/C	yes	2-3-18	
7	N.W. Corner Chemical Storage #1	O/C	yes	2-3-18	
8	N.E. Corner Chemical Storage # 2	O/C	yes	2-3-18	
9	East Side W.T. by Multimedia Filters # 3	O/C	yes	2-3-18	
10	East Side W.T. by Multimedia Filters # 5	O/C	yes	2-3-18	
11	North Side Bldg 10 # 6	O/C	yes	2-3-18	
12	Between MP-444's and Water Treat # 4	O/C	yes	2-3-18	

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	No Debris

see comments on #3 PIV above.  
PIV-13 West side VSI open Cycled 2-3-18

## Emergency Diesel Generator Weekly Test Log

Plant:

Alpha

Date:

12/23/18

Operator:

Rico T

Main Generator Breaker		Comments
Open		
Closed		
Engine		Comments
Start Time:		5:00 pm
Stop Time:		5:30 pm
Total Run Time:		10 min
Starting Hour Meter Reading		192.6
Monthly Fuel Consumption(gal)		
Oil Level		✓
Coolant Level		✓
Coolant Temp. @ Start		55 °c
Coolant Temp. @ Finish		74 °c
Belt Condition		✓
Oil Pressure		✓
Start =		8.3 bar
Finish =		6.8 bar
Battery Condition		✓
Battery Voltage		27.1
Engine RPMs		1800
Generator		Comments
Generator Volts		416
Generator Amps		0000
Generator "KVA"		0338
Reason For Use		Comments
Testing		✓
Emergency		weekly
Maintenance		
Generator		Comments
Fuel Delivered		
Fuel Level	1/4 1/2 3/4 F	
Sulfur Concentrations		
<0.0015% (15ppm)		

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This engine may operate in response to notification of impending loss of utility back-feed power if the interconnected utility has ordered an outage to the plant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage and the engine is shut immediately after the utility advises that the outage no longer imminent or in effect.

Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant:

Alpha

Date:

12/13/18

Operator: Rico

Main Generator Breaker		Comments	
Open			
Closed			
Engine		Comments	
Start Time:		5:58 pm	
Stop Time:		6:08 pm	
Total Run Time:		10 Min	
Starting Hour Meter Reading		192.4	
Monthly Fuel Consumption(gal)			
Oil Level		✓	
Coolant Level		✓	
Belt Condition		✓	
Oil Pressure		Start = 7.9 bar Finish = 6.7 bar	
Battery Condition		✓	
Battery Voltage		26.9	
Engine RPMs		1800	
Generator		Comments	
Generator Volts		262.5	
Generator Amps		0360	
Generator "KVA"		4.15	
Reason For Use		Comments	
Testing		✓	
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered			
Fuel Level	1/4 1/2 3/4 F		
Sulfur Concentrations <0.0015% (15ppm)			

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.



## Emergency Diesel Generator Weekly Test Log

Plant: **ALPHA**

Date: **12-9-18**

Operator: **PHIL TOURGELS**

Main Generator Breaker		Comments
Open	✓	
Closed		
Engine		Comments
Start Time:	03:25	
Stop Time:	03:35	
Total Run Time:	10 min	
Starting Hour Meter Reading	192.3	
Monthly Fuel Consumption(gal)		
Oil Level	✓	
Coolant Level	✓	Coolant Temp. @ Start 60 °c Finish=75 °c
Belt Condition	✓	
Oil Pressure		Start = 8.5 bar Finish=6.4 bar
Battery Condition	✓	
Battery Voltage	26.9	
Engine RPMs	1800	
Generator		Comments
Generator Volts	4:13KV	
Generator Amps	✓	
Generator "KVA"	✓	
Reason For Use		Comments
Testing	WEEKLY	
Emergency	—	
Maintenance	—	
Generator		Comments
Fuel Delivered	N/A	
Fuel Level	1/4 1/2 3/4 F 87%	
Sulfur Concentrations <0.0015% (15ppm)		

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant: **ALPHA**

Date: **12-2-18**

Operator: **Phil Tourgenis**

Main Generator Breaker		Comments
Open	<input checked="" type="checkbox"/>	
Closed	<input type="checkbox"/>	
Engine		Comments
Start Time:	02:15	
Stop Time:	02:25	
Total Run Time:	10	
Starting Hour Meter Reading	192.1	
Monthly Fuel Consumption(gal)		
Oil Level	GOOD	
Coolant Level	GOOD	Coolant Temp. @ Start 57 *c      Finish=75 *c
Belt Condition	GOOD	
Oil Pressure		Start = 8.4 bar      Finish=6.7 bar
Battery Condition	GOOD	
Battery Voltage	26.9	
Engine RPMs	1800	
Generator		Comments
Generator Volts	4.17KV	
Generator Amps	-	
Generator "KVA"	-	
Reason For Use		Comments
Testing	WEEKLY	
Emergency	-	
Maintenance	-	
Generator		Comments
Fuel Delivered	N/A	
Fuel Level	1/4 1/2 3/4 F 87%6	
Sulfur Concentrations <0.0015% (15ppm)		

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant: *Alpha*

Date: *11-25-18*

Operator: *Efrain Montes*

Main Generator Breaker		Comments
Open	<i>✓</i>	<i>for test</i>
Closed	<i>✓</i>	<i>after test</i>
Engine		Comments
Start Time:	<i>1836</i>	<i>* Alternator excitation alarm came in</i>
Stop Time:	<i>1846</i>	
Total Run Time:	<i>10 min</i>	
Starting Hour Meter Reading	<i>191.9h</i>	<i>192.1h</i>
Monthly Fuel Consumption(gal)	<i>-</i>	
Oil Level	<i>Good</i>	
Coolant Level	<i>Good</i>	Coolant Temp. @ Start <i>60</i> *c      Finish = <i>75</i> *c
Belt Condition	<i>Good</i>	
Oil Pressure		Start = <i>0</i> bar      Finish = <i>6.7</i> bar
Battery Condition	<i>Good</i>	
Battery Voltage	<i>26.9v</i>	
Engine RPMs	<i>1800</i>	
Generator		Comments
Generator Volts	<i>4.18kv</i>	
Generator Amps	<i>-</i>	
Generator "KVA"	<i>-</i>	
Reason For Use		Comments
Testing	<i>✓</i>	
Emergency	<i>-</i>	
Maintenance	<i>-</i>	
Generator		Comments
Fuel Delivered	<i>-</i>	
Fuel Level	<div> <div>1/4</div> <div>1/2</div> <div>3/4</div> <div>F</div> </div> <i>88%</i>	
Sulfur Concentrations <0.0015% (15ppm)	<i>-</i>	

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te: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant: *Alpha plant*

Date: *11-17-16*

Operator: *Ebnin Mandy*

Main Generator Breaker		Comments	
Open	<i>✓</i>	<i>for test</i>	
Closed	<i>✓</i>	<i>after test</i>	
Engine		Comments	
Start Time:	<i>1856</i>		
Stop Time:	<i>1906</i>		
Total Run Time:	<i>10 min</i>		
Starting Hour Meter Reading	<i>191.8h</i>	<i>after test 191.9h</i>	
Monthly Fuel Consumption(gal)			
Oil Level	<i>Good</i>		
Coolant Level	<i>Good</i>	Coolant Temp. @ Start <i>61</i> °C	Finish <i>75</i> °C
Belt Condition	<i>Good</i>		
Oil Pressure		Start = <i>0</i> bar	Finish = <i>6.7</i> bar
Battery Condition	<i>Good</i>		
Battery Voltage	<i>26.9V</i>		
Engine RPMs	<i>1800</i>		
Generator		Comments	
Generator Volts	<i>4.13kV</i>		
Generator Amps	<i>—</i>		
Generator "KVA"	<i>—</i>		
Reason For Use		Comments	
Testing	<i>✓</i>		
Emergency	<i>—</i>		
Maintenance	<i>—</i>		
Generator		Comments	
Fuel Delivered	<i>X</i>		
Fuel Level	<i>87%</i>		
Sulfur Concentrations <0.0015% (15ppm)	<i>—</i>		

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.



## Emergency Diesel Generator Weekly Test Log

Plant: Alpha Date: 11/11/18

Operator: Rico

Main Generator Breaker		Comments	
Open			
Closed			
Engine		Comments	
Start Time:		<u>6:12 pm</u>	
Stop Time:		<u>6:22 pm</u>	
Total Run Time:		<u>10 min</u>	
Starting Hour Meter Reading		<u>191.6</u>	
Monthly Fuel Consumption(gal)			
Oil Level		<u>✓</u>	
Coolant Level		<u>✓</u>	
Belt Condition		<u>✓</u>	
Oil Pressure		<u>✓</u>	
Battery Condition		<u>✓</u>	
Battery Voltage		<u>26.9</u>	
Engine RPMs		<u>1800</u>	
Generator		Comments	
Generator Volts		<u>4.16</u>	
Generator Amps		<u>N/A</u>	
Generator "KVA"		<u>4.23</u>	
Reason For Use		Comments	
Testing		<u>✓</u>	
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered			
Fuel Level	1/4 1/2 3/4 F	<u>88%</u>	
Sulfur Concentrations <0.0015% (15ppm)			

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant:

Alpha

Date:

11-3-18

Operator:

Michael Hinton

Main Generator Breaker		Comments	
Open	✓		
Closed			
Engine		Comments	
Start Time:	1900		
Stop Time:	1910		
Total Run Time:	10 mins		
Starting Hour Meter Reading	191.5		
Monthly Fuel Consumption(gal)			
Oil Level	Normal		
Coolant Level	Normal	Coolant Temp. @ Start	62 °c      Finish=75 °c
Belt Condition	Normal		
Oil Pressure		Start =8.1 bar	Finish=6.6 bar
Battery Condition	Normal		
Battery Voltage	26.9		
Engine RPMs	1800		
Generator		Comments	
Generator Volts	N/A	Notified CRO screen not displaying.	
Generator Amps	↓		
Generator "KVA"			
Reason For Use		Comments	
Testing	✓		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered	881.2		
Fuel Level	1/4   1/2   3/4   F	No	
Sulfur Concentrations <0.0015% (15ppm)			

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○ : Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

 Plant: Alpha Date: 10-27-18

 Operator: Mike Hinton

Main Generator Breaker		Comments	
Open	✓		
Closed			
Engine		Comments	
Start Time:	1910		
Stop Time:	1920		
Total Run Time:	10 mins		
Starting Hour Meter Reading	191.3		
Monthly Fuel Consumption(gal)			
Oil Level	Normal		
Coolant Level	Normal	Coolant Temp. @ Start	58 °c Finish= 75 °c
Belt Condition	Normal		
Oil Pressure		Start = 7.9 bar	Finish= 6.6 bar
Battery Condition	Normal		
Battery Voltage	26.4		
Engine RPMs	1800		
Generator		Comments	
Generator Volts	2263		
Generator Amps	352		
Generator "KVA"	4.17		
Reason For Use		Comments	
Testing	✓		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered	No		
Fuel Level	1/4 1/2 3/4 F	88%	
Sulfur Concentrations <0.0015% (15ppm)			

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∴ Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.



### Emergency Diesel Generator Weekly Test Log

Plant: <b>Alpha</b>		Date: <b>10/18/18</b>	
Operator: <b>Rico</b>			
<b>Main Generator Breaker</b>		<b>Comments</b>	
Open			
Closed			
<b>Engine</b>		<b>Comments</b>	
Start Time:		<b>6:50 pm</b>	
Stop Time:		<b>7:00 pm</b>	
Total Run Time:		<b>10 min</b>	
Starting Hour Meter Reading		<b>1911</b>	
Monthly Fuel Consumption(gal)			
Oil Level		<b>✓</b>	
Coolant Level		<b>✓</b>	
Belt Condition		<b>✓</b>	
Oil Pressure		Start = <b>7.7</b> bar      Finish = <b>6.6</b> bar	
Battery Condition		<b>✓</b>	
Battery Voltage		<b>27.3</b>	
Engine RPMs		<b>1800</b>	
<b>Generator</b>		<b>Comments</b>	
Generator Volts		<b>4.17</b>	
Generator Amps		<b>0336</b>	
Generator "KVA"		<b>2136</b>	
<b>Reason For Use</b>		<b>Comments</b>	
Testing		<b>✓</b>	
Emergency			
Maintenance			
<b>Generator</b>		<b>Comments</b>	
Fuel Delivered			
Fuel Level	1/4   1/2   3/4   F		
Sulfur Concentrations <0.0015% (15ppm)			

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: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.



## Emergency Diesel Generator Weekly Test Log

Plant: Alpha

Date: 10-14-18

Operator: Edgardo Montoya

Main Generator Breaker		Comments
Open	✓	for test
Closed	✓	after test
Engine		Comments
Start Time:	2137	
Stop Time:	2147	
Total Run Time:	10 min	
Starting Hour Meter Reading	191.0h	
Monthly Fuel Consumption(gal)		
Oil Level	✓	
Coolant Level	✓	Coolant Temp. @ Start 60°C Finish= 75°C
Belt Condition	✓	
Oil Pressure		Start = 0 bar Finish= 6.6 bar
Battery Condition	✓	
Battery Voltage	26.9V	
Engine RPMs	1800	
Generator		Comments
Generator Volts	4.16KV	
Generator Amps	—	
Generator "KVA"	—	
Reason For Use		Comments
Testing	✓	
Emergency	—	
Maintenance	—	
Generator		Comments
Fuel Delivered	✓	
Fuel Level	1/4 1/2 3/4 F	89%
Sulfur Concentrations <0.0015% (15ppm)	✓	

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Net fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant: ALPHA

Date: 10-5-18

Operator: PAUL TOURTELIS

Main Generator Breaker		Comments	
Open	✓		
Closed	—		
Engine		Comments	
Start Time:	19:24		
Stop Time:	19:34		
Total Run Time:	10 MINS		
Starting Hour Meter Reading	190.8		
Monthly Fuel Consumption(gal)	191.0		
Oil Level	GOOD		
Coolant Level	GOOD	Coolant Temp. @ Start	60 *c Finish=75 *c
Belt Condition	GOOD		
Oil Pressure		Start = 7.8 bar	Finish = 6.6 bar
Battery Condition	GOOD		
Battery Voltage	26.9		
Engine RPMs	1800		
Generator		Comments	
Generator Volts	4.16		
Generator Amps	—		
Generator "KVA"	—		
Reason For Use		Comments	
Testing	WEEKLY		
Emergency	—		
Maintenance	—		
Generator		Comments	
Fuel Delivered	—		
Fuel Level	1/4 1/2 3/4 F	69% to 90% on 10-11-18	
Sulfur Concentrations <0.0015% (15ppm)	Yes		

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

This engine may operate in response to notification of impending loss of utility back-feed power if the interconnected utility has ordered an outage to the plant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage and the engine is shut immediately after the utility advises that the outage no longer imminent or in effect.

Net fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant:

ALPHA

Date:

9-29-18

Operator:

PHIL TOURBELIS

Main Generator Breaker		Comments	
Open	✓		
Closed	—		
Engine		Comments	
Start Time:	19:47		
Stop Time:	19:57		
Total Run Time:	10 MINS		
Starting Hour Meter Reading	190.6		
Monthly Fuel Consumption(gal)			
Oil Level	GOOD		
Coolant Level	GOOD	Coolant Temp. @ Start	61 °c Finish=75 °c
Belt Condition	GOOD		
Oil Pressure	—	Start = 7.5 bar	Finish = 6.6 bar
Battery Condition	GOOD		
Battery Voltage	26.6		
Engine RPMs	1800		
Generator		Comments	
Generator Volts	4.16KV		
Generator Amps	—		
Generator "KVA"	—		
Reason For Use		Comments	
Testing	WEEKLY		
Emergency	—		
Maintenance	—		
Generator		Comments	
Fuel Delivered	—		
Fuel Level	1/4 1/2 3/4 F 70%		
Sulfur Concentrations <0.0015% (15ppm)			

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

This engine may operate in response to notification of impending loss of utility back-feed power if the interconnected utility has ordered an outage to the plant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage and the engine is shut immediately after the utility advises that the outage no longer imminent or in effect.

∴ Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

# Emergency Diesel Generator Weekly Test Log

Plant: *Alpha*

Date: *9-22-18*

Operator: *E. Frain*

Main Generator Breaker		Comments	
Open	✓	<i>for test</i>	
Closed	✓	<i>after test</i>	
Engine		Comments	
Start Time:	<i>0009</i>		
Stop Time:	<i>0019</i>		
Total Run Time:	<i>10 min</i>		
Starting Hour Meter Reading	<i>190.4h</i>	<i>after 190.6h</i>	
Monthly Fuel Consumption(gal)			
Oil Level	<i>Good</i>		
Coolant Level	<i>Good</i>	Coolant Temp. @ Start <i>67 °c</i>	Finish= <i>75 °c</i>
Belt Condition	<i>Good</i>		
Oil Pressure		Start = <i>0</i> bar	Finish= <i>6.6</i> bar
Battery Condition	<i>Good</i>		
Battery Voltage	<i>26.9</i>		
Engine RPMs	<i>1800</i>		
Generator		Comments	
Generator Volts	<i>4.18</i>		
Generator Amps			
Generator "KVA"			
Reason For Use		Comments	
Testing	✓		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered			
Fuel Level	<i>1/4 1/2 3/4 F 70%</i>		
Sulfur Concentrations <0.0015% (15ppm)			

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

This engine may operate in response to notification of impending loss of utility back-feed power if the interconnected utility has ordered an outage to the plant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage and the engine is shut immediately after the utility advises that the outage no longer imminent or in effect.

∴ Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.



### Emergency Diesel Generator Weekly Test Log

Plant: Alpha Date: 9-17-18

Operator: Colin Anderson

Main Generator Breaker		Comments
Open	<input checked="" type="checkbox"/>	
Closed	<input type="checkbox"/>	
Engine		Comments
Start Time:	<u>1925</u>	
Stop Time:	<u>1940</u>	
Total Run Time:	<u>15 minutes</u>	
Starting Hour Meter Reading	<u>190.2</u>	
Monthly Fuel Consumption(gal)		
Oil Level	<u>Good</u>	
Coolant Level	<u>Normal</u>	Coolant Temp. @ Start <u>58</u> *c Finish= <u>76</u> *c
Belt Condition	<u>Good</u>	
Oil Pressure		Start = <u>8</u> bar Finish= <u>6.6</u> bar
Battery Condition	<u>Good</u>	
Battery Voltage	<u>27.3</u>	
Engine RPMs	<u>1800</u>	
Generator		Comments
Generator Volts	<u>4.19 kV</u>	
Generator Amps		
Generator "KVA"		
Reason For Use		Comments
Testing	<input checked="" type="checkbox"/>	
Emergency	<input type="checkbox"/>	
Maintenance	<input type="checkbox"/>	
Generator		Comments
Fuel Delivered		
Fuel Level	1/4 1/2 <u>3/4</u> F	
Sulfur Concentrations		
<0.0015% (15ppm)		

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

This engine may operate in response to notification of impending loss of utility back-feed power if the interconnected utility has ordered an outage to the plant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage and the engine is shut immediately after the utility advises that the outage no longer imminent or in effect.

Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

# Emergency Diesel Generator Weekly Test Log

Plant: Alpha

Date: 9/9/18

Operator: Collin Anderson

Main Generator Breaker		Comments
Open	✓	
Closed		
Engine		Comments
Start Time:	1945	
Stop Time:	2000	
Total Run Time:	15 Minutes	
Starting Hour Meter Reading	190.1	
Monthly Fuel Consumption(gal)		
Oil Level	N	
Coolant Level	N	Coolant Temp. @ Start 59 *c Finish=76*c
Belt Condition	N	
Oil Pressure	N	Start = 7.6 bar Finish=6.6 bar
Battery Condition	N	
Battery Voltage	27.3V	
Engine RPMs	1800	
Generator		Comments
Generator Volts	4.17 kV	
Generator Amps		
Generator "KVA"		
Reason For Use		Comments
Testing	✓	
Emergency		
Maintenance		
Generator		Comments
Fuel Delivered		
Fuel Level	1/4 1/2 3/4 F	
Sulfur Concentrations		
<0.0015% (15ppm)		

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

This engine may operate in response to notification of impending loss of utility back-feed power if the interconnected utility has ordered an outage to the plant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage and the engine is shut immediately after the utility advises that the outage no longer imminent or in effect.

Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant:

Alpha

Date:

9-1-18

Operator:

Michael Hinton

## Main Generator Breaker

## Comments

Open

✓

Closed

## Engine

## Comments

Start Time:

2200

Stop Time:

2210

Total Run Time:

10 mins

Starting Hour Meter Reading

189.9

Monthly Fuel Consumption(gal)

Oil Level

Normal

Coolant Level

Normal

Coolant Temp. @ Start

60°C

Finish=

67.6°C

Belt Condition

Normal

Oil Pressure

Start = 6.9 bar

Finish = 6.6 bar

Battery Condition

Normal

Battery Voltage

27.2

Line RPMs

1800

## Generator

## Comments

Generator Volts

216.9

Generator Amps

345

Generator "KVA"

4.16

## Reason For Use

## Comments

Testing

✓

Emergency

Maintenance

## Generator

## Comments

Fuel Delivered

No

Fuel Level

1/4

1/2

3/4

F

70%

Sulfur Concentrations

&lt;0.0015% (15ppm)

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

This engine may operate in response to notification of impending loss of utility back-feed power if the interconnected utility has ordered an outage to the plant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage and the engine is shut immediately after the utility advises that the outage no longer imminent or in effect.

Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.



## Emergency Diesel Generator Weekly Test Log

Plant:

Alpha

Date:

8-25-18

Operator:

Michael Hinton

Main Generator Breaker		Comments	
Open		✓	
Closed			
Engine		Comments	
Start Time:		2005	
Stop Time:		2015	
Total Run Time:		10 mins	
Starting Hour Meter Reading		189.7 189.4 end	
Monthly Fuel Consumption(gal)			
Oil Level		Normal	
Coolant Level		Normal	
Belt Condition		Normal	
Oil Pressure		Start = 7.8 bar Finish = 6.6 bar	
Battery Condition		Normal	
Battery Voltage		26.7	
ine RPMs		1800	
Generator		Comments	
Generator Volts		4.17	
Generator Amps		328	
Generator "KVA"		2301	
Reason For Use		Comments	
Testing		✓	
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered		No	
Fuel Level	1/4 1/2 3/4 F	70%	
Sulfur Concentrations <0.0015% (15ppm)			

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

This engine may operate in response to notification of impending loss of utility back-feed power if the interconnected utility has ordered an outage to the plant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage and the engine is shut immediately after the utility advises that the outage no longer imminent or in effect.

Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.



## Emergency Diesel Generator Weekly Test Log

Plant: Alpha plant

Date: 8-19-18

Operator: Edwin Morales

Main Generator Breaker		Comments	
Open	✓	for testing	
Closed	✓	after testing	
Engine		Comments	
Start Time:	0144		
Stop Time:	0154		
Total Run Time:	10 min		
Starting Hour Meter Reading	189.5h		
Monthly Fuel Consumption(gal)			
Oil Level	Good		
Coolant Level	Good	Coolant Temp. @ Start 6.2 °C	Finish = 5 °C
Belt Condition	Good		
Oil Pressure		Start = 0 bar	Finish = 6.7 bar
Battery Condition	Good		
Battery Voltage	26.9V		
Line RPMs	1800		
Generator		Comments	
Generator Volts	4.16KV		
Generator Amps	—		
Generator "KVA"	—		
Reason For Use		Comments	
Testing	✓		
Emergency	X		
Maintenance	X		
Generator		Comments	
Fuel Delivered	X		
Fuel Level	1/4 1/2 3/4 F	70%	
Sulfur Concentrations <0.0015% (15ppm)			

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

This engine may operate in response to notification of impending loss of utility back-feed power if the interconnected utility has ordered an outage to the plant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage and the engine is shut immediately after the utility advises that the outage no longer imminent or in effect.

Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant: *Alpha plant*Date: *8-12-18*Operator: *Eduin Morales*

Main Generator Breaker		Comments	
Open	✓	for testing	
Closed	✓	after test	
Engine		Comments	
Start Time:	2349		
Stop Time:	2359		
Total Run Time:	10 min		
Starting Hour Meter Reading	189.4h		
Monthly Fuel Consumption(gal)			
Oil Level	Good		
Coolant Level	Good	Coolant Temp. @ Start	62 °c Finish=76 °c
Belt Condition	Good		
Oil Pressure		Start = 0 bar	Finish=6.7 bar
Battery Condition	Good		
Battery Voltage	26.9V		
Engine RPMs	1800 rpm		
Generator		Comments	
Generator Volts	4.17		
Generator Amps	—		
Generator "KVA"	—		
Reason For Use		Comments	
Testing	✓		
Emergency	—		
Maintenance	—		
Generator		Comments	
Fuel Delivered	—		
Fuel Level	1/4 1/2 3/4 F	70%	
Sulfur Concentrations <0.0015% (15ppm)	—		

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

This engine may operate in response to notification of impending loss of utility back-feed power if the interconnected utility has ordered an outage to the plant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage and the engine is shut immediately after the utility advises that the outage no longer imminent or in effect.

No fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant: *Alpha*

Date: *8-3-18*

Operator: *Calhoun*

Main Generator Breaker		Comments	
Open	<i>✓</i>		
Closed			
Engine		Comments	
Start Time:	<i>22:38</i>		
Stop Time:	<i>22:48</i>		
Total Run Time:	<i>10 min</i>		
Starting Hour Meter Reading	<i>189.2</i>		
Monthly Fuel Consumption(gal)	<i>11.40</i>		
Oil Level	<i>good</i>		
Coolant Level	<i>good</i>	Coolant Temp. @ Start <i>60</i> *c	Finish = <i>76</i> *c
Belt Condition	<i>good</i>		
Oil Pressure		Start = <i>5.7</i> bar	Finish = <i>6.7</i> bar
Battery Condition	<i>good</i>		
Battery Voltage	<i>26.1</i>		
Engine RPMs	<i>1800</i>		
Generator		Comments	
Generator Volts	<i>NA</i>		
Generator Amps	<i>NA</i>		
Generator "KVA"	<i>NA</i>		
Reason For Use		Comments	
Testing	<i>✓</i>		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered	<i>NA</i>		
Fuel Level	<i>7/10</i>		
Sulfur Concentrations			
<0.0015% (15ppm)			

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

This engine may operate in response to notification of impending loss of utility back-feed power if the interconnected utility has ordered an outage to the plant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage and the engine is shut immediately after the utility advises that the outage no longer imminent or in effect.

**Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.**

## Emergency Diesel Generator Weekly Test Log

Plant: **ALPHA**

Date: **7-28-18**

Operator: **PHIL TOURGELIS**

Main Generator Breaker		Comments	
Open	✓		
Closed			
Engine		Comments	
Start Time:	03:00		
Stop Time:	03:10		
Total Run Time:	10 mins		
Starting Hour Meter Reading	189		
Monthly Fuel Consumption(gal)	—		
Oil Level	Good		
Coolant Level	Good	Coolant Temp. @ Start 60*c	Finish=75*c
Belt Condition	Good		
Oil Pressure		Start =8.0 bar	Finish=67 bar
Battery Condition	Good		
Battery Voltage	26.8		
Engine RPMs	1800		
Generator		Comments	
Generator Volts	4.18		
Generator Amps	—		
Generator "KVA"	—		
Reason For Use		Comments	
Testing	✓		
Emergency	—		
Maintenance	—		
Generator		Comments	
Fuel Delivered	—		
Fuel Level	<input checked="" type="checkbox"/> 1/4 <input checked="" type="checkbox"/> 1/2 <input checked="" type="checkbox"/> 3/4 <input type="checkbox"/> F	71%	
Sulfur Concentrations			
<0.0015% (15ppm)			

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

This engine may operate in response to notification of impending loss of utility back-feed power if the interconnected utility has ordered an outage to the plant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage and the engine is shut immediately after the utility advises that the outage no longer imminent or in effect.

**Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.**



## Emergency Diesel Generator Weekly Test Log

Plant: *Alpha*Date: *8-23-18*Operator: *Caleb Sowards*

Main Generator Breaker		Comments	
Open	✓		
Closed			
Engine		Comments	
Start Time:	<i>0325</i>		
Stop Time:	<i>0335</i>		
Total Run Time:	<i>10 min</i>		
Starting Hour Meter Reading	<i>188.9</i>		
Monthly Fuel Consumption(gal)			
Oil Level	<i>good</i>		
Coolant Level	<i>good</i>	Coolant Temp. @ Start <i>59</i> °c	Finish = <i>75</i> °c
Belt Condition	<i>good</i>		
Oil Pressure		Start = <i>7.6</i> bar	Finish = <i>6.7</i> bar
Battery Condition	<i>good</i>		
Battery Voltage	<i>26.8</i>		
ie RPMs	<i>1800</i>		
Generator		Comments	
Generator Volts	<i>NA</i>		
Generator Amps	<i>NA</i>		
Generator "KVA"	<i>NA</i>		
Reason For Use		Comments	
Testing	✓		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered	<i>NO</i>		
Fuel Level	<i>70%</i>		
Sulfur Concentrations			
<0.0015% (15ppm)			

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

This engine may operate in response to notification of impending loss of utility back-feed power if the interconnected utility has ordered an outage to the plant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage and the engine is shut immediately after the utility advises that the outage no longer imminent or in effect.

Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant: Alpha

Date: 7/8/18

Operator: Collin Anderson

Main Generator Breaker		Comments	
Open	✓		
Closed			
Engine		Comments	
Start Time:	1740		
Stop Time:	1755		
Total Run Time:	15 Mins		
Starting Hour Meter Reading	188		
Monthly Fuel Consumption(gal)			
Oil Level	Good		
Coolant Level	Good	Coolant Temp. @ Start	*c Finish= 76*c
Belt Condition	Good		
Oil Pressure		Start =	bar Finish= 6.6 bar
Battery Condition	Good		
Battery Voltage	27.3		
Idle RPMs	1800		
Generator		Comments	
Generator Volts			
Generator Amps			
Generator "KVA"			
Reason For Use		Comments	
Testing	✓		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered			
Fuel Level	1/4 1/2 3/4 F		
Sulfur Concentrations			
<0.0015% (15ppm)			

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

This engine may operate in response to notification of impending loss of utility back-feed power if the interconnected utility has ordered an outage to the plant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage and the engine is shut immediately after the utility advises that the outage no longer imminent or in effect.

Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

Emergency Diesel Generator Weekly Test Log

Plant: Alpha

Date: 6-30-18

Operator: Caleb

Main Generator Breaker		Comments	
Open	✓		
Closed			
Engine		Comments	
Start Time:	0332		
Stop Time:	0342		
Total Run Time:	10 min		
Starting Hour Meter Reading	188.2		
Monthly Fuel Consumption(gal)			
Oil Level	good		
Coolant Level	good	Coolant Temp. @ Start	60 °c
Belt Condition	good	Finish	7 °c
Oil Pressure		Start	7.5 bar
Battery Condition	good	Finish	6.7 bar
Battery Voltage	26.2		
Engine RPMs	1500		
Generator		Comments	
Generator Volts	417		
Generator Amps			
Generator "KVA"			
Reason For Use		Comments	
Testing	✓		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered			
Fuel Level	1/4 1/2 3/4 F	71%	
Sulfur Concentrations	<0.0015% (15ppm)		

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

This engine may operate in response to notification of impending loss of utility back-feed power if the interconnected utility has ordered an outage to the plant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage and the engine is shut immediately after the utility advises that the outage no longer imminent or in effect.

2: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant: Alpha Plant Date: 06-23-18

Operator: Michael Hinton

Main Generator Breaker		Comments
Open	✓	
Closed		
Engine		Comments
Start Time:	<u>2020</u>	
Stop Time:	<u>2030</u>	
Total Run Time:	<u>10 mins</u>	
Starting Hour Meter Reading	<u>188.0</u>	<u>188.2 end hrs.</u>
Monthly Fuel Consumption(gal)		
Oil Level	<u>Normal</u>	
Coolant Level		Coolant Temp. @ Start <u>58</u> *c Finish= <u>76</u> *c
Belt Condition	<u>Normal</u>	
Oil Pressure		Start = <u>7.3</u> bar Finish= <u>6.5</u> bar
Battery Condition	<u>Normal</u>	
Battery Voltage	<u>27.3</u>	
Engine RPMs	<u>1800</u>	
Generator		Comments
Generator Volts	<u>2206</u>	
Generator Amps	<u>N/A</u>	
Generator "KVA"	<u>4.13</u>	
Reason For Use		Comments
Testing	✓	
Emergency		
Maintenance		
Generator		Comments
Fuel Delivered	<u>No</u>	
Fuel Level	<u>1/4</u> <u>1/2</u> <u>3/4</u> <u>F</u>	
Sulfur Concentrations		
<0.0015% (15ppm)		

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

This engine may operate in response to notification of impending loss of utility back-feed power if the interconnected utility has ordered an outage to the plant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage and the engine is shut immediately after the utility advises that the outage no longer imminent or in effect.

e: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.



Emergency Diesel Generator Weekly Test Log

Plant: Alpha plant

Date: 6-17-18

Operator: Edwin Morales

Main Generator Breaker		Comments
Open	✓	for test
Closed	✓	After test
Engine		Comments
Start Time:	2326	
Stop Time:	2336	
Total Run Time:	10 min	
Starting Hour Meter Reading	187.84	
Monthly Fuel Consumption(gal)	—	
Oil Level	✓	
Coolant Level	✓	Coolant Temp. @ Start 58°C Finish=75 °c
Belt Condition	✓	
Oil Pressure		Start = 0 bar Finish=6.5 bar
Battery Condition	✓	
Battery Voltage	26.9	
Engine RPMs	1800	
Generator		Comments
Generator Volts	4.16	
Generator Amps	—	
Generator "KVA"	—	
Reason For Use		Comments
Testing	✓	
Emergency	—	
Maintenance	—	
Generator		Comments
Fuel Delivered	X	
Fuel Level	1/4 1/2 3/4 F	71%
Sulfur Concentrations <0.0015% (15ppm)	—	

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

This engine may operate in response to notification of impending loss of utility back-feed power if the interconnected utility has ordered an outage to the plant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage and the engine is shut immediately after the utility advises that the outage no longer imminent or in effect.

e: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant: *Alpha plant*

Date: *6-10-18*

Operator: *Edna M. Nates*

Main Generator Breaker		Comments	
Open	<i>✓</i>	<i>for test</i>	
Closed	<i>✓</i>	<i>After test</i>	
Engine		Comments	
Start Time:	<i>22:34</i>	<i>Fuel @ start 71%</i>	
Stop Time:	<i>22:44</i>		
Total Run Time:	<i>10 min</i>		
Starting Hour Meter Reading	<i>187.6 h</i>		
Monthly Fuel Consumption(gal)			
Oil Level	<i>Good</i>		
Coolant Level	<i>Good</i>	Coolant Temp. @ Start <i>63</i> °C	Finish = <i>75</i> °C
Belt Condition	<i>Good</i>		
Oil Pressure		Start = <i>0</i> bar	Finish = <i>6.5</i> bar
Battery Condition	<i>Good</i>		
Battery Voltage	<i>26.9V</i>		
Engine RPMs	<i>1800</i>		
Generator		Comments	
Generator Volts	<i>4.18</i>		
Generator Amps			
Generator "KVA"			
Reason For Use		Comments	
Testing	<i>✓</i>		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered			
Fuel Level	<i>1/4</i> <i>1/2</i> <i>3/4</i> <i>F</i>		
Sulfur Concentrations <0.0015% (15ppm)			

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant: <u>Alpha</u>		Date: <u>6-1-18</u>	
Operator: <u>Mike Hinton</u>			
Main Generator Breaker		Comments	
Open	<input checked="" type="checkbox"/>		
Closed	<input type="checkbox"/>		
Engine		Comments	
Start Time:	<u>2055</u>		
Stop Time:	<u>2110</u>		
Total Run Time:	<u>15 mins</u>		
Starting Hour Meter Reading	<u>187.4</u>	<u>187.6 Finish</u>	
Monthly Fuel Consumption(gal)			
Oil Level	<u>Normal</u>		
Coolant Level		Coolant Temp. @ Start <u>58</u> *c	Finish= <u>76</u> *c
Belt Condition	<u>Normal</u>		
Oil Pressure		Start = <u>7.1</u> bar	Finish= <u>6.5</u> bar
Battery Condition	<u>Normal</u>		
Battery Voltage	<u>1800</u>		
Engine RPMs	<u>26.9</u>		
Generator		Comments	
Generator Volts	<u>2223</u>		
Generator Amps	<u>N/A</u>		
Generator "KVA"	<u>4.16</u>		
Reason For Use		Comments	
Testing	<input checked="" type="checkbox"/>		
Emergency	<input type="checkbox"/>		
Maintenance	<input type="checkbox"/>		
Generator		Comments	
Fuel Delivered	<u>No</u>		
Fuel Level	<u>71%</u>		
Sulfur Concentrations			
<0.0015% (15ppm)			

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

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: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant: Alpha Date: 5-26-18

Operator: Michael Hinton

Main Generator Breaker		Comments
Open	✓	
Closed		
Engine		Comments
Start Time:	<u>2050</u>	
Stop Time:	<u>2105</u>	
Total Run Time:	<u>15 mins</u>	
Starting Hour Meter Reading	<u>187.2</u>	<u>187.4 Finish</u>
Monthly Fuel Consumption(gal)		
Oil Level	<u>Normal</u>	
Coolant Level		Coolant Temp. @ Start <u>58</u> *c Finish= <u>75</u> *c
Belt Condition	<u>Normal</u>	
Oil Pressure		Start = <u>7.4</u> bar Finish= <del>7.8</del> bar <u>7.4</u>
Battery Condition	<u>Normal</u>	
Battery Voltage	<u>26.9</u>	
Engine RPMs	<u>1800</u>	
Generator		Comments
Generator Volts	<u>2324</u>	
Generator Amps	<u>N/A</u>	
Generator "KVA"	<u>4.16</u>	
Reason For Use		Comments
Testing	✓	
Emergency		
Maintenance		
Generator		Comments
Fuel Delivered	<u>No</u>	
Fuel Level	<u>71%</u>	
Sulfur Concentrations		
<0.0015% (15ppm)		

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

This engine may operate in response to notification of impending loss of utility back-feed power if the interconnected utility has ordered an outage to the plant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage and the engine is shut immediately after the utility advises that the outage no longer imminent or in effect.

Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.



## Emergency Diesel Generator Weekly Test Log

Plant: Alpha Date: 5-20-18

Operator: Michael Hinton

Main Generator Breaker		Comments	
Open	✓		
Closed			
Engine		Comments	
Start Time:	1910		
Stop Time:	1920		
Total Run Time:	10 mins		
Starting Hour Meter Reading	187.0		
Monthly Fuel Consumption(gal)			
Oil Level	Normal		
Coolant Level		Coolant Temp. @ Start	58 °c Finish= 75 °c
Belt Condition	Normal		
Oil Pressure		Start = 7.3 bar	Finish= 6.5 bar
Battery Condition	Normal		
Battery Voltage	27.3		
Engine RPMs	1800		
Generator		Comments	
Generator Volts	4.16 N/A		
Generator Amps	↓		
Generator "KVA"	↓		
Reason For Use		Comments	
Testing	✓		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered	No		
Fuel Level	1/4 1/2 3/4 F	71%	
Sulfur Concentrations			
<0.0015% (15ppm)			

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant: *Alpha* Date: *5/12/18*

Operator: *Collin Anderson*

Main Generator Breaker		Comments	
Open	<i>/</i>		
Closed			
Engine		Comments	
Start Time:	<i>2000</i>		
Stop Time:	<i>2015</i>		
Total Run Time:	<i>15 minutes</i>		
Starting Hour Meter Reading	<i>186.7</i>		
Monthly Fuel Consumption(gal)			
Oil Level	<i>Normal</i>		
Coolant Level	<i>Good</i>	Coolant Temp. @ Start <i>58</i> *c	Finish= <i>75</i> *c
Belt Condition	<i>Good</i>		
Oil Pressure		Start = <i>7.5</i> bar	Finish= <i>6.5</i> bar
Battery Condition	<i>Good</i>		
Battery Voltage	<i>27.5</i>		
Engine RPMs	<i>1800</i>		
Generator		Comments	
Generator Volts	<i>4.16</i>		
Generator Amps			
Generator "KVA"			
Reason For Use		Comments	
Testing	<i>✓</i>		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered			
Fuel Level	<i>1/4</i> <i>1/2</i> <i>3/4</i> <i>F</i>		
Sulfur Concentrations <0.0015% (15ppm)			

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant: **Alpha** Date: **5/5/18**

Operator: **Colin Anderson**

Main Generator Breaker		Comments
Open	✓	
Closed		
Engine		Comments
Start Time:	1914	
Stop Time:	1929	
Total Run Time:	15 minutes	
Starting Hour Meter Reading	186.4	
Monthly Fuel Consumption(gal)		
Oil Level	Normal	
Coolant Level	Normal	Coolant Temp. @ Start 60 °c Finish=76 °c
Belt Condition	Good	
Oil Pressure		Start = 7.1 bar Finish=6.5 bar
Battery Condition	Good	
Battery Voltage	27.4	
Engine RPMs	1800	
Generator		Comments
Generator Volts	4.17 kV	
Generator Amps		
Generator "KVA"		
Reason For Use		Comments
Testing	✓	
Emergency		
Maintenance		
Generator		Comments
Fuel Delivered		
Fuel Level	1/4 1/2 3/4 F 71%	
Sulfur Concentrations <0.0015% (15ppm)		

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Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant: **ALPHA** Date: **4-28-18**

Operator: **PHIL TOURBELLIS**

Main Generator Breaker		Comments
Open	<input checked="" type="checkbox"/>	
Closed	<input type="checkbox"/>	
Engine		Comments
Start Time:	<b>0324</b>	
Stop Time:	<b>0334</b>	
Total Run Time:	<b>10 MINS</b>	
Starting Hour Meter Reading	<b>186.2</b>	
Monthly Fuel Consumption(gal)	<b>N/A</b>	
Oil Level	<b>GOOD</b>	
Coolant Level	<b>GOOD</b>	Coolant Temp. @ Start <b>63</b> *c Finish= <b>75</b> *c
Belt Condition	<b>GOOD</b>	
Oil Pressure	<b>GOOD</b>	Start = <b>8.1</b> bar Finish= <b>6.4</b> bar
Battery Condition	<b>GOOD</b>	
Battery Voltage	<b>26.9</b>	
Engine RPMs	<b>1800</b>	
Generator		Comments
Generator Volts	<b>4.16</b>	
Generator Amps	<b>—</b>	
Generator "KVA"	<b>—</b>	
Reason For Use		Comments
Testing	<input checked="" type="checkbox"/>	<b>WEEKLY</b>
Emergency	<input type="checkbox"/>	
Maintenance	<input type="checkbox"/>	
Generator		Comments
Fuel Delivered	<b>—</b>	
Fuel Level	<input checked="" type="checkbox"/> 1/4 <input checked="" type="checkbox"/> 1/2 <input checked="" type="checkbox"/> 3/4 <input type="checkbox"/> F	<b>72%</b>
Sulfur Concentrations <0.0015% (15ppm)	<b>—</b>	

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

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∅: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.



## Emergency Diesel Generator Weekly Test Log

Plant: *H1pha*

Date: *4-22-18*

Operator: *Caleb Sowards*

Main Generator Breaker		Comments	
Open	<i>NA</i>		
Closed	<i>✓</i>	<i>Black for MPT+ work</i>	
Engine		Comments	
Start Time:	<i>2007</i>		
Stop Time:	<i>2120</i>		
Total Run Time:	<i>1.18 min</i>	<i>1 Hr 18 min</i>	
Starting Hour Meter Reading	<i>185.2</i>	<i>END</i>	
Monthly Fuel Consumption(gal)			
Oil Level	<i>good</i>		
Coolant Level	<i>good</i>	Coolant Temp. @ Start	<i>62</i> *c Finish= <i>78</i> *c
Belt Condition	<i>good</i>		
Oil Pressure	<i>good</i>	Start = <i>7.7</i> bar	Finish= <i>6.2</i> bar
Battery Condition	<i>good</i>		
Battery Voltage	<i>27.5</i>		
Engine RPMs	<i>1800</i>		
Generator		Comments	
Generator Volts	<i>417</i>		
Generator Amps	<i>135</i>		
Generator "KVA"			
Reason For Use		Comments	
Testing			
Emergency			
Maintenance	<i>✓</i>		
Generator		Comments	
Fuel Delivered	<i>✓</i>		
Fuel Level	<i>73</i>		
Sulfur Concentrations			
<0.0015% (15ppm)			

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant: *Alpha*

Date: *4-20-18*

Operator: *Caleb Sowards*

Main Generator Breaker		Comments
Open	<i>ACS</i>	
Closed	<i>✓</i>	<i>ON EMERG Power For OUTAGE</i>
Engine		Comments
Start Time:	<i>1850</i>	
Stop Time:	<i>1900</i>	
Total Run Time:	<i>10min</i>	
Starting Hour Meter Reading	<i>124.8</i>	<i>ending 135.0</i>
Monthly Fuel Consumption(gal)		
Oil Level	<i>Full</i>	
Coolant Level	<i>Full</i>	Coolant Temp. @ Start <i>79</i> *c      Finish = <i>79</i> *c
Belt Condition	<i>good</i>	
Oil Pressure	<i>6</i>	Start = <i>6.1</i> bar      Finish = <i>6.0</i> bar
Battery Condition	<i>good</i>	
Battery Voltage	<i>27.5</i>	
Engine RPMs	<i>1800</i>	
Generator		Comments
Generator Volts	<i>4.16kv</i>	
Generator Amps	<i>147</i>	
Generator "KVA" mVar	<i>NA 407</i>	
Reason For Use		Comments
Testing		
Emergency		
Maintenance	<i>✓</i>	
Generator		Comments
Fuel Delivered	<i>NA</i>	
Fuel Level	<div style="display: flex; justify-content: space-between; width: 100%;"> <span>1/4</span> <span>1/2</span> <span>3/4</span> <span>F</span> </div>	<i>29%</i>
Sulfur Concentrations <0.0015% (15ppm)		

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NOTE: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

Date: 4/19/20

[illegible]

**Comments:** ENG. POWER FOR MPT1 BUSHING REPLACEMENT

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outage ...

ABENGOA

NORTH AMERICA

Operator(s): Mike Hinton / Collin Andersen

Date: 4/17, 18, 19/18

# Emergency Diesel Generator Bi-Hourly Readings

Alpha Plant

Time Of Reading	Oil Pressure	Gen. Voltage	Engine RPM	Coolant Temp.	Fuel Level	Hour Meter	Oil Temp	Gen. KWH
4-17 1800	6.3	4.17	1800	76	79	102	75	1016
2000	6.4	"	1800	76	76	104.1	74	954
2200	6.3	"	1800	76	72	106.2	74	1008
2400	6.3	"	1800	76	68	108.1	74	1022
4-18 0200	6.3	4.98	1800	76	65	110.1	75	1014
0400	6.3	4.18	1800	76	60	112.1	75	998
0600	6.2	4.17	1800	76	58	114	74	1066
0800	6.2	4.17	1800	76	54	116	74	1017
1000	6.3	4.16	1800	76	50	118	75	732
1200	6.3	4.16	1800	76	48	120	75	730
1400	6.1	4.18	1800	79	78	122	77	1070
1600	6.1	4.16	1800	79	73	124	78	1050
1800	6.1	4.17	1800	78	69	126	77	1026
2000	6.1	4.17	1800	77	66	128.1	76	1059
2200	6.2	4.17	1800	77	63	130	75	1088
2400	6.2	4.17	1800	77	59	132	75	1012
4-19 0200	6.2	4.17	1800	77	55	134	75	1042
0400	6.2	4.17	1800	77	52	136.1	75	1093
0600	6.2	4.17	1800	76	49	137.3	75	1065
0800	6.2	4.17	1800	76	45	139.9	75	1083
1000	6.1	4.17	1800	77	89	143.2	76	1094
1200	6.1	4.17	1800	77	87	143.9	76	1089
1400	6.2	4.17	1800	77	82	145.4	75	1082
1600	6.2	4.16	1800	77	76	147.2	76	1066

Comments: - Generator was turned on at

93.6 on the hour meter.

Refueled on: 4-17-18 400.8

4-18-18 1439.2

4-19-18 2113.1

4-22-18 1046.5

gallons



## SUPPRESSION SYSTEM FIRE WATCH LOG

Assigned Area: A3-2 Transformer Yard Date: 4/19-20/18

Fire-Watcher: Michael Hinton Initials: MA

Fire Watch Times: Started 1730 Ended 0530

Fire watch personnel must perform continuous tours such that each system in their assigned area is checked at not less than 30-minute intervals. The first entry in this log must be made within 30 minutes of the start of the fire watch and every 30 minutes thereafter. Times must be recorded using the 24-hour clock and initialed. Any problems found during the fire watch must be documented (along with the time found and initialed) and reported to the control room for immediate correction.

**I certify (by my initials below) that I completed a tour of my entire assigned area at the following times:**

Time Tour Completed	Initials		Time Tour Completed	Initials		Time Tour Completed	Initials
1730	MA		2230	MA		0200	MA
1800							
1830	MA		2300	MA		0230	MA
1900	MA						
1930	MA		2330	MA		0300	MA
2000	MA						
2030	MA		2400	MA		0330	MA
2100	MA		0030	MA		0400	MA
2130	MA		0100	MA		0430	MA
2200	MA		0130	MA		0500	MA
						0530	MA

Problems noted during fire watch:

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## SUPPRESSION SYSTEM FIRE WATCH LOG

Assigned Area: Switch yard MPT Date: 4-19-18

Fire-Watcher: Colin A. Initials: CA

Fire Watch Times: Started 0600 Ended 1700

Fire watch personnel must perform continuous tours such that each system in their assigned area is checked at not less than 30-minute intervals. The first entry in this log must be made within 30 minutes of the start of the fire watch and every 30 minutes thereafter. Times must be recorded using the 24-hour clock and initialed. Any problems found during the fire watch must be documented (along with the time found and initialed) and reported to the control room for immediate correction.

I certify (by my initials below) that I completed a tour of my entire assigned area at the following times:

Time Tour Completed	Initials		Time Tour Completed	Initials		Time Tour Completed	Initials
0600	CA		0930	CA		1300	CA
0630	CA		1000	CA		1330	CA
0700	CA		1030	CA		1400	CA
0730	CA		1100	CA		1430	CA
0800	CA		1130	CA		1500	CA
0830	CA		1200	CA		1530	CA
0900	CA		1230	CA		1600	CA

Problems noted during fire watch:

1630  
1700 CA

## SUPPRESSION SYSTEM FIRE WATCH LOG

Assigned Area: A3-2 Transformer Yard Date: 4-18/19-18

Fire-Watcher: Michael Hinton Initials: MH

Fire Watch Times: Started 1730 4-18 Ended 0530 4-19

Fire watch personnel must perform continuous tours such that each system in their assigned area is checked at not less than 30-minute intervals. The first entry in this log must be made within 30 minutes of the start of the fire watch and every 30 minutes thereafter. Times must be recorded using the 24-hour clock and initialed. Any problems found during the fire watch must be documented (along with the time found and initialed) and reported to the control room for immediate correction.

**I certify (by my initials below) that I completed a tour of my entire assigned area at the following times:**

Time Tour Completed	Initials		Time Tour Completed	Initials		Time Tour Completed	Initials
1730	MH		2200	MH		0130	MH
1800	MH						
1830	MH		2230	MH		0200	MH
1900	MH						
1930	MH		2300	MH		0230	MH
2000	MH		2330	MH		0300	MH
2030	MH		2400	MH		0330	MH
2100	MH		0030	MH		0400	MH
2130	MH		0100	MH		0430	MH

Problems noted during fire watch:

0500 MH  
0530 MH

## SUPPRESSION SYSTEM FIRE WATCH LOG

Fire Watch Times: Started 0600 Ended 1700

**I certify (by my initials below) that I completed a tour of my entire assigned area at the following times:**

Time Tour Completed	Initials	Time Tour Completed	Initials	Time Tour Completed	Initials
0600	CA	0930	CB	1300	CA
0630	CA	1000	CA	1330	CA
0700	CA	1030	CA	1400	CA
0730	CB	1100	CB	1430	CB
0800	CA	1130	CA	1500	CA
0830	CA	1200	CB	1530	CA
0900	CB	1230	CA	1600	CB
Problems noted during fire watch:				1630	CA
				1700	CB



# ABENGOA

## SUPPRESSION SYSTEM FIRE WATCH LOG

Assigned Area: A3-2 Main transformer Alpha Date: 4-17-4-18-18

Fire-Watcher: Michael Hinton Initials: MH

Fire Watch Times: Started <sup>MH</sup> 1800 4-17 Ended 0600 4-18

Fire watch personnel must perform continuous tours such that each system in their assigned area is checked at not less than 30-minute intervals. The first entry in this log must be made within 30 minutes of the start of the fire watch and every 30 minutes thereafter. Times must be recorded using the 24-hour clock and initialed. Any problems found during the fire watch must be documented (along with the time found and initialed) and reported to the control room for immediate correction.

I certify (by my initials below) that I completed a tour of my entire assigned area at the following times:

Time Tour Completed	Initials		Time Tour Completed	Initials		Time Tour Completed	Initials
1800	MH		0030	MH		0330	MH
1830	MH						
1900	MH		0100	MH		0400	MH
1930	MH						
2000	MH		0130	MH		0430	MH
2030	MH						
2100	MH		0200	MH		0500	MH
2130	MH						
2200	MH		0200	MH		0530	MH
2230	MH						
2300	MH		0230	MH		0600	MH
2330	MH						
2400	MH		0300	MH			

Problems noted during fire watch:

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## Emergency Diesel Generator Weekly Test Log

Plant: *Alpha*

Date: *4-14-18*

Operator: *Efrain Montes*

Main Generator Breaker		Comments
Open	<i>✓</i>	<i>open for test</i>
Closed	<i>✓</i>	<i>closed after test</i>
Engine		Comments
Start Time:	<i>1936</i>	
Stop Time:	<i>1946</i>	
Total Run Time:	<i>10 min</i>	
Starting Hour Meter Reading	<i>92.5h</i>	
Monthly Fuel Consumption(gal)		
Oil Level	<i>good</i>	
Coolant Level	<i>good</i>	Coolant Temp. @ Start <i>59</i> °c      Finish= <i>75</i> °c
Belt Condition	<i>good</i>	
Oil Pressure		Start = <i>0</i> bar      Finish= <i>6.6</i> bar
Battery Condition	<i>good</i>	
Battery Voltage	<i>26.9</i>	
Engine RPMs	<i>1800</i>	
Generator		Comments
Generator Volts	<i>4.16kv</i>	
Generator Amps	<i>—</i>	
Generator "KVA"	<i>—</i>	
Reason For Use		Comments
Testing	<i>✓</i>	
Emergency	<i>—</i>	
Maintenance	<i>—</i>	
Generator		Comments
Fuel Delivered	<i>—</i>	
Fuel Level	<div> <div>1/4</div> <div>1/2</div> <div>3/4</div> <div>F</div> </div> <i>87%</i>	
Sulfur Concentrations <0.0015% (15ppm)	<i>—</i>	

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

This engine may operate in response to notification of impending loss of utility back-feed power if the interconnected utility has ordered an outage to the plant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage the engine is shut immediately after the utility advises that the outage no longer imminent or in effect.

Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant: **ALPHA**

Date: **4-6-18**

Operator: **Phil T**

Main Generator Breaker		Comments
Open	✓	
Closed	—	
Engine		Comments
Start Time:	06:10	
Stop Time:	06:20	
Total Run Time:	10 mins	
Starting Hour Meter Reading	92.3	92.5 ENDING HRS.
Monthly Fuel Consumption(gal)		
Oil Level	GOOD	
Coolant Level	GOOD	Coolant Temp. @ Start 58 °c Finish=75 °c
Belt Condition	GOOD	
Oil Pressure	✓	Start = 8.1 bar Finish=6.7 bar
Battery Condition	GOOD	
Battery Voltage	26.9	
Engine RPMs	1800	
Generator		Comments
Generator Volts	4.18 kV	
Generator Amps	—	
Generator "KVA"	—	
Reason For Use		Comments
Testing	✓	
Emergency	—	
Maintenance	—	
Generator		Comments
Fuel Delivered	x	
Fuel Level	1/4 1/2 3/4 F 87%	
Sulfur Concentrations <0.0015% (15ppm)		

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant: Alpha Date: 4/1/18

Operator: Collin Anderson

Main Generator Breaker		Comments	
Open	✓		
Closed			
Engine		Comments	
Start Time:	<u>1902</u>		
Stop Time:	<u>1917</u>		
Total Run Time:	<u>15 Minutes</u>		
Starting Hour Meter Reading	<u>92</u>		
Monthly Fuel Consumption(gal)			
Oil Level	<u>Normal</u>		
Coolant Level	<u>Normal</u>	Coolant Temp. @ Start <u>59</u> *c	Finish= <u>75</u> *c
Belt Condition	<u>Good</u>		
Oil Pressure		Start = <u>7.4</u> bar	Finish= <u>6.6</u> bar
Battery Condition	<u>Good</u>		
Battery Voltage	<u>27.3</u>		
Engine RPMs	<u>1800</u>		
Generator		Comments	
Generator Volts	<u>4.16 kV</u>		
Generator Amps			
Generator "KVA"			
Reason For Use		Comments	
Testing	✓		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered			
Fuel Level	1/4 1/2 <u>(3/4)</u> F		
Sulfur Concentrations <0.0015% (15ppm)			

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

This engine may operate in response to notification of impending loss of utility back-feed power if the interconnected utility has ordered an outage to the plant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage the engine is shut immediately after the utility advises that the outage no longer imminent or in effect.

Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

*of*



## Emergency Diesel Generator Weekly Test Log

Plant: Alpha Date: 3-24-18

Operator: Mike Hinton

Main Generator Breaker		Comments
Open	✓	
Closed		
Engine		Comments
Start Time:	1940	
Stop Time:	1955	
Total Run Time:	15 mins	
Starting Hour Meter Reading	91.8	stop 92.0
Monthly Fuel Consumption(gal)		
Oil Level	Good	
Coolant Level		Coolant Temp. @ Start 56*c Finish=75*c
Belt Condition	Normal	
Oil Pressure		Start = bar 8.3 Finish=6.7bar
Battery Condition	Normal	
Battery Voltage	27.2	
Engine RPMs	1800	
Generator		Comments
Generator Volts	4.17	
Generator Amps	N/A	
Generator "KVA"	N/A	
Reason For Use		Comments
Testing	✓	
Emergency		
Maintenance		
Generator		Comments
Fuel Delivered	No	
Fuel Level	1/4 1/2 3/4 F	86%
Sulfur Concentrations <0.0015% (15ppm)		

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

This engine may operate in response to notification of impending loss of utility back-feed power if the interconnected utility has ordered an outage to the plant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage and the engine is shut immediately after the utility advises that the outage no longer imminent or in effect.

Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant: Mike Hinton Date: 3-17-18

Operator: Alpha

Main Generator Breaker		Comments
Open	✓	TESTING NORMAL OPS. (STANDBY)
Closed	✓	
Engine		Comments
Start Time:	1922	
Stop Time:	1937	
Total Run Time:	15 mins	
Starting Hour Meter Reading	91.5	91.8 finish
Monthly Fuel Consumption(gal)	—	
Oil Level	Normal	
Coolant Level		Coolant Temp. @ Start 54 °c Finish=75 °c
Belt Condition	Normal	
Oil Pressure		Start = <del>4.1</del> bar Finish=6.7bar
Battery Condition	Normal	8.1
Battery Voltage	27.1	
Engine RPMs	1800	
Generator		Comments
Generator Volts	4.17	
Generator Amps	N/A	
Generator "KVA"	N/A	
Reason For Use		Comments
Testing	✓	
Emergency	—	
Maintenance	—	
Generator		Comments
Fuel Delivered	No	
Fuel Level	1/4 1/2 3/4 F	87%
Sulfur Concentrations <0.0015% (15ppm)		

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

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① Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

GF

Emergency Diesel Generator Weekly Test Log									
Plant: <u>Alpha</u>					Date: <u>3/9/18</u>				
Operator: <u>Collin Anderson</u>									
<b>Main Generator Breaker</b>					<b>Comments</b>				
Open					✓				
Closed									
<b>Engine</b>					<b>Comments</b>				
Start Time:					1932				
Stop Time:					1947				
Total Run Time:					15 mins				
Starting Hour Meter Reading					91.3				
Monthly Fuel Consumption(gal)					342				
Oil Level					Normal				
Coolant Level					Normal				
Belt Condition					Good				
Oil Pressure					Start = 8.4 bar				
Battery Condition					Good				
Battery Voltage					27.1				
Engine RPMs					1800				
<b>Generator</b>					<b>Comments</b>				
Generator Volts					4.16 kV				
Generator Amps					N/A				
Generator "KVA"					N/A				
<b>Reason For Use</b>					<b>Comments</b>				
Testing					✓				
Emergency					N/A				
Maintenance					N/A				
<b>Generator</b>					<b>Comments</b>				
Fuel Delivered					N/A				
Fuel Level	1/4	1/2	3/4	F	87%				
Sulfur Concentrations					<0.0015% (15ppm)				
<p>This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.</p> <p>This engine may operate in response to notification of impending loss of utility back-feed power if the interconnected utility has ordered an outage to the plant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage and the engine is shut immediately after the utility advises that the outage no longer imminent or in effect.</p> <p><b>Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.</b></p>									

## Emergency Diesel Generator Weekly Test Log

Plant: *Alpha*

Date: *3-2-18*

Operator: *Edwin Montes*

Main Generator Breaker		Comments	
Open	<i>✓</i>	<i>open for test</i>	
Closed	<i>✓</i>	<i>closed for normal ops</i>	
Engine		Comments	
Start Time:	<i>2228</i>		
Stop Time:	<i>2238</i>		
Total Run Time:	<i>10 min</i>		
Starting Hour Meter Reading	<i>91.1h</i>	<i>Ending 11.3h</i>	
Monthly Fuel Consumption(gal)	<i>11 gal</i>		
Oil Level	<i>Good</i>		
Coolant Level	<i>Good</i>	Coolant Temp. @ Start	<i>67 °C</i> Finish = <i>75 °C</i>
Belt Condition	<i>Good</i>		
Oil Pressure	<i>—</i>	Start = <i>0</i> bar	Finish = <i>6.7</i> bar
Battery Condition	<i>Good</i>		
Battery Voltage	<i>27.0V</i>		
Engine RPMs	<i>1800</i>		
Generator		Comments	
Generator Volts	<i>418</i>		
Generator Amps	<i>—</i>		
Generator "KVA"	<i>—</i>		
Reason For Use		Comments	
Testing	<i>✓</i>		
Emergency	<i>—</i>		
Maintenance	<i>—</i>		
Generator		Comments	
Fuel Delivered	<i>—</i>		
Fuel Level	1/4 1/2 3/4 F <i>87%</i>		
Sulfur Concentrations	<i>—</i>		
<0.0015% (15ppm)			

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**Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.**



## Emergency Diesel Generator Weekly Test Log

Plant: **ALPHA** Date: **2-24-18**

Operator: **Phil TOURGANS**

Main Generator Breaker		Comments
Open	✓	FOR TEST
Closed	X	BACK 1/5.

Engine		Comments
Start Time:	01:27	
Stop Time:	01:37	
Total Run Time:	10 MINS	
Starting Hour Meter Reading	90.9	91.1 ENDING HOURS
Monthly Fuel Consumption(gal)	710	
Oil Level	GOOD	
Coolant Level	GOOD	Coolant Temp. @ Start 61 *c Finish=75 *c
Belt Condition	GOOD	
Oil Pressure	—	Start = 8.4 bar Finish=6.7 bar
Battery Condition	GOOD	
Battery Voltage	27.	
Engine RPMs	1800	

Generator		Comments
Generator Volts	4.17 kV	
Generator Amps	<del>255</del>	
Generator "KVA"	<del>255</del>	

Reason For Use		Comments
Testing	✓	
Emergency	X	
Maintenance	X	

Generator		Comments
Fuel Delivered	N/A	
Fuel Level	1/4 1/2 3/4 F 87%	
Sulfur Concentrations <0.0015% (15ppm)	N/A 285 ppm	

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**Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.**

## Emergency Diesel Generator Weekly Test Log

Plant: Alpha Date: 2-17-18

Operator: Caleb Sowards Caleb Sowards

Main Generator Breaker		Comments	
Open	✓		
Closed			
Engine		Comments	
Start Time:	<u>2242</u>		
Stop Time:	<u>2752</u>		
Total Run Time:	<u>10 min</u>		
Starting Hour Meter Reading	<u>90.8</u>		
Monthly Fuel Consumption(gal)			
Oil Level	<u>good</u>		
Coolant Level	<u>good</u>	Coolant Temp. @ Start <u>62</u> *c	Finish = <u>74</u> *c
Belt Condition	<u>good</u>		
Oil Pressure		Start = <u>8.1</u> bar	Finish = <u>7.6</u> bar
Battery Condition	<u>good</u>		
Battery Voltage	<u>26.9</u>		
Engine RPMs	<u>1800</u>		
Generator		Comments	
Generator Volts	<u>na</u>		
Generator Amps	<u>na</u>		
Generator "KVA"	<u>na</u>		
Reason For Use		Comments	
Testing	✓		
Emergency	X		
Maintenance	X		
Generator		Comments	
Fuel Delivered	<u>na</u>		
Fuel Level	1/4 1/2 3/4 F <u>87%</u>		
Sulfur Concentrations			
<0.0015% (15ppm)			

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

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**Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.**

## Emergency Diesel Generator Weekly Test Log

Plant: *Alpha*

Date: *2-10-18*

Operator: *Ebrahim Munkil*

Main Generator Breaker		Comments	
Open	<i>✓</i>		
Closed			
Engine		Comments	
Start Time:	<i>2214</i>		
Stop Time:	<i>2224</i>		
Total Run Time:	<i>10 min</i>		
Starting Hour Meter Reading	<i>90.6H</i>		
Monthly Fuel Consumption(gal)			
Oil Level	<i>Good</i>		
Coolant Level	<i>Good</i>	Coolant Temp. @ Start <i>58</i> °C	Finish = <i>75</i> °C
Belt Condition	<i>Good</i>		
Oil Pressure		Start = <i>6.0</i> bar	Finish = <i>6.7</i> bar
Battery Condition	<i>Good</i>		
Battery Voltage	<i>26.9V</i>		
Engine RPMs	<i>1800</i>		
Generator		Comments	
Generator Volts	<i>4.19V</i>		
Generator Amps			
Generator "KVA"			
Reason For Use		Comments	
Testing	<i>✓</i>		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered	<i>---</i>		
Fuel Level	1/4 1/2 3/4 F <i>87%</i>		
Sulfur Concentrations			
<0.0015% (15ppm)			

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

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**Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.**



## Emergency Diesel Generator Weekly Test Log

Plant: Alpha Date: 2-4-18

Operator: Mike Hinton

Main Generator Breaker		Comments
Open	✓	
Closed		
Engine		Comments
Start Time:	<u>0625</u>	
Stop Time:	<u>0640</u>	
Total Run Time:	<u>15 mins</u>	
Starting Hour Meter Reading	<u>90.4</u>	<u>90.6 Finish hour reading.</u>
Monthly Fuel Consumption(gal)		
Oil Level	<u>Normal</u>	
Coolant Level	<u>Normal</u>	Coolant Temp. @ Start <u>59</u> *c Finish= <u>75</u> *c
Belt Condition	<u>Normal</u>	
Oil Pressure		Start = <u>8.4</u> bar Finish= <u>6.7</u> bar
Battery Condition	<u>Normal</u>	
Battery Voltage	<u>27.3</u>	
Engine RPMs	<u>1800</u>	
Generator		Comments
Generator Volts	<u>N/A</u>	
Generator Amps	<u>↓</u>	
Generator "KVA"		
Reason For Use		Comments
Testing	✓	
Emergency		
Maintenance		
Generator		Comments
Fuel Delivered	<u>No</u>	
Fuel Level	<u>87%</u>	
Sulfur Concentrations		
<0.0015% (15ppm)		

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**Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.**



# Automated Fire Systems Inspection Checklist

Plant: ALPHA ☒ BETA ☐ Date: 2-2-18 Operator: Mike H

## Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	155	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	135	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	135	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 4 by Cooling Tower West Side

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	160	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	165	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## Turbine Sprinkler Valves (These are to be locked in the open position)

No.	System	Locked	Viv. Pos.	Comments
1	Bearing 2	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## HTF Deluge System Valves (To be Locked in the Open Position)

No.	System	Locked	Viv. Pos.	Comments
1	MP-201	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	O/C	

## Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	165	O	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	✓	2-2-18	
2	Maintenance Shop Drive Way #8	O/C	✓		
3	West Side Power Block by VS-3 # 9	O/C	✓		
4	West Side Power Block by VS-1 # 10	O/C	✓		
5	West Side Cooling Tower by VS-4 # 11	O/C	✓		
6	West side Cooling Tower by VS-4 # 12	O/C	✓		
7	N.W. Corner Chemical Storage #1	O/C	✓		
8	N.E. Corner Chemical Storage # 2	O/C	✓		
9	East Side W.T. by Multimedia Filters # 3	O/C	✓		
10	East Side W.T. by Multimedia Filters # 5	O/C	✓		
11	North Side Bldg 10 # 6	O/C	✓		
12	Between MP-444's and Water Treat # 4	O/C	✓		

## To Be Cycled First Saturday of Every Month

No.	System	Debris	Comments / Actions
1	Transformer Yard Refuse Check	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

## Emergency Diesel Generator Weekly Test Log

Plant: Alpha Date: 1-21-18

Operator: Mike Hinton

Main Generator Breaker		Comments
------------------------	--	----------

Open	✓	
------	---	--

Closed		
--------	--	--

Engine		Comments
--------	--	----------

Start Time:	1828	
-------------	------	--

Stop Time:	1843	
------------	------	--

Total Run Time:	15 mins	
-----------------	---------	--

Starting Hour Meter Reading	90.0	90.2 end Hour reading
-----------------------------	------	-----------------------

Monthly Fuel Consumption(gal)		
-------------------------------	--	--

Oil Level	Normal	
-----------	--------	--

Coolant Level	Normal	Coolant Temp. @ Start 52 *c Finish=75 *c
---------------	--------	--

Belt Condition	Normal	
----------------	--------	--

Oil Pressure		Start = 7.6 bar Finish=6.7 bar
--------------	--	--------------------------------

Battery Condition	Normal	
-------------------	--------	--

Battery Voltage	27.4	
-----------------	------	--

Engine RPMs	1800	
-------------	------	--

Generator		Comments
-----------	--	----------

Generator Volts	N/A	
-----------------	-----	--

Generator Amps	N/A	
----------------	-----	--

Generator "KVA"	N/A	
-----------------	-----	--

Reason For Use		Comments
----------------	--	----------

Testing	✓	
---------	---	--

Emergency		
-----------	--	--

Maintenance		
-------------	--	--

Generator		Comments
-----------	--	----------

Fuel Delivered	No	
----------------	----	--

Fuel Level	1/4 1/2 3/4 F	87%
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Sulfur Concentrations		
-----------------------	--	--

<0.0015% (15ppm)		
------------------	--	--

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

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**Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.**

## Emergency Diesel Generator Weekly Test Log

Plant: <b>Alpha</b>		Date: <b>1-13-18</b>	
Operator: <b>Mike Hinton</b>			
<b>Main Generator Breaker</b>		<b>Comments</b>	
Open		✓	
Closed			
<b>Engine</b>		<b>Comments</b>	
Start Time:		<b>2246</b>	
Stop Time:		<b>2301</b>	
Total Run Time:		<b>15 mins</b>	
Starting Hour Meter Reading		<b>89.7</b>	
Monthly Fuel Consumption(gal)		<b>90.0 end Hour reading</b>	
Oil Level		<b>Normal</b>	
Coolant Level		<b>Normal</b>	
Belt Condition		<b>Normal</b>	
Oil Pressure		<b>Start = 7.6 bar</b>	
Battery Condition		<b>Normal</b>	
Battery Voltage		<b>27.5</b>	
Engine RPMs		<b>1800</b>	
<b>Generator</b>		<b>Comments</b>	
Generator Volts		<b>N/A</b>	
Generator Amps		<b>↓</b>	
Generator "KVA"		<b>↓</b>	
<b>Reason For Use</b>		<b>Comments</b>	
Testing		✓	
Emergency			
Maintenance			
<b>Generator</b>		<b>Comments</b>	
Fuel Delivered		<b>No</b>	
Fuel Level	1/4 1/2 3/4 F	<b>87%</b>	
Sulfur Concentrations		<b>&lt;0.0015% (15ppm)</b>	

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**Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.**

## Emergency Diesel Generator Weekly Test Log

Plant: Alpha

Date: 1-7-18

Operator: Efrain Morales

Main Generator Breaker		Comments
Open	X	
Closed		
Engine		Comments
Start Time:	1748	
Stop Time:	1758	
Total Run Time:	10 min	
Starting Hour Meter Reading	89.6h	89.7h ending
Monthly Fuel Consumption(gal)		
Oil Level	Good	
Coolant Level	Good	Coolant Temp. @ Start 53 °C Finish=75 °C
Belt Condition	Good	
Oil Pressure		Start = 0.0 bar Finish = 6.7 bar
Battery Condition	Good	
Battery Voltage	27.0V	
Engine RPMs	1800	
Generator		Comments
Generator Volts	4.17V	
Generator Amps	0264	
Generator "KVA"	1661	
Reason For Use		Comments
Testing	X	
Emergency		
Maintenance		
Generator		Comments
Fuel Delivered		NO
Fuel Level 1/4 1/2 3/4 F		88%
Sulfur Concentrations <0.0015% (15ppm)		NA

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**Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.**



## Emergency Diesel Generator Weekly Test Log

Plant: *Alpha*

Date: *12-31-17*

Operator: *Efrain Mendez*

Main Generator Breaker		Comments	
Open			
Closed			
Engine		Comments	
Start Time:		<i>1755</i>	
Stop Time:		<i>1805</i>	
Total Run Time:		<i>10 min</i>	
Starting Hour Meter Reading		<i>89.4h ending - 89.6h</i>	
Monthly Fuel Consumption(gal)			
Oil Level		<i>Good</i>	
Coolant Level		<i>Good</i>	
Coolant Temp. @ Start		<i>60 *c</i>	
Coolant Temp. @ Finish		<i>75 *c</i>	
Belt Condition		<i>Good</i>	
Oil Pressure		<i>Finish = 6.7 bar</i>	
Battery Condition			
Battery Voltage			
Engine RPMs			
Generator		Comments	
Generator Volts			
Generator Amps			
Generator "KVA"			
Reason For Use		Comments	
Testing			
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered			
Fuel Level	1/4 1/2 3/4 F		
Sulfur Concentrations			
<0.0015% (15ppm)			

SCANNED &  
UPLOADED TO LH  
9/12/17 M&S

SCANNED &  
UPLOADED TO LH  
LFO DEC 31, 2017  
M&S 2/26/2018

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**Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.**

## Emergency Diesel Generator Weekly Test Log

Plant: <del>Alpha Plant</del> <b>Alpha Plant</b>		Date: 01/28/2018	
Operator: <b>MANNY GARCIA</b>			
<b>Main Generator Breaker</b>		<b>Comments</b>	
Open	✓		
Closed			
<b>Engine</b>		<b>Comments</b>	
Start Time:	22:09		
Stop Time:	22:19		
Total Run Time:	10 MINS		
Starting Hour Meter Reading	90.2h		
Monthly Fuel Consumption(gal)			
Oil Level	Good		
Coolant Level	Good	Coolant Temp. @ Start	57 °c Finish= 75 °c
Belt Condition	Good		
Oil Pressure	Good	Start = 0.0 bar	Finish= 6.7 bar
Battery Condition	Good		
Battery Voltage	270V		
Engine RPMs	1850		
<b>Generator</b>		<b>Comments</b>	
Generator Volts	4.17kV		
Generator Amps	272		
Generator "KVA"	14421		
<b>Reason For Use</b>		<b>Comments</b>	
Testing	✓		
Emergency			
Maintenance			
<b>Generator</b>		<b>Comments</b>	
Fuel Delivered			
Fuel Level	1/4 1/2 3/4 F 87%		
Sulfur Concentrations			
<0.0015% (15ppm)			

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

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**Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.**

**ABENGOA****SOLAR**

Mojave Solar LLC

**Emergency Diesel Generator Weekly Test Log**ALPHA ☐BETA: ☒Date: 2/4/18Operator: Rico

Engine		Comments
Oil Level	✓	
Start Time	7:28pm	
Starting Hour Meter reading	399.0	
Oil Pressure	7.3	
Battery Condition	✓	
Battery Voltage	26.3	
Engine RPM	1800	
Generator Volts	4.17	
Coolant Temperature	76°C	
Oil Ptemperature	74°C	
Fuel Level %	78%	
Stop Time	7:38pm	
Ending Hour Meter Reading	399.2	
Total Run Time	10min	
<b>Generator (When Testing With Load)</b>		
Breaker Close	✓	
Generator Volts	4.15	
Breaker Open		
Generator *KW*	1194	
<b>Reason For Use</b>		
Testing:	✓	
Emergency:		
Maintenance:		
Confirm Master Control Turned Back on Auto: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
This emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.		
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**ABENGOA****SOLAR**

Mojave Solar LLC

**Emergency Diesel Generator Weekly Test Log**ALPHA ☐BETA: ☒Date: 1-28-18Operator: Rico T

Engine	Comments
Oil Level	✓
Start Time	9:45 PM
Starting Hour Meter reading	398.9
Oil Pressure	7.7
Battery Condition	✓
Battery Voltage	26.0
Engine RPM	1800
Generator Volts	4.17
Coolant Temperature	76°C
Oil Ptemperature	70°C
Fuel Level %	78%
Stop Time	9:55 PM
Ending Hour Meter Reading	399.0
Total Run Time	10 MIN
<b>Generator (When Testing With Load)</b>	
Breaker Close	✓
Generator Volts	4.13
Breaker Open	
Generator *KW*	1730
<b>Reason For Use</b>	
Testing:	✓
Emergency:	
Maintenance:	
Confirm Master Control Turned Back on Auto: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
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Revised 04/05/2017



**ABENGOA****SOLAR**

Mojave Solar LLC

**Emergency Diesel Generator Weekly Test Log**ALPHA ☐BETA: ☒

Date: 1-25-18

Operator: Caleb Sonawards

Engine		Comments
Oil Level	✓	supply side Radiator Line
Start Time	7301	Has a small drip
Starting Hour Meter reading	00398.7	
Oil Pressure	8.3	
Battery Condition	✓	
Battery Voltage	25.4	
Engine RPM	1800	
Generator Volts	NA	
Coolant Temperature	46C starting	
Oil Temperature	74C ending	
Fuel Level %	78	
Stop Time	2311	
Ending Hour Meter Reading	398.8	
Total Run Time	10 min	
<b>Generator (When Testing With Load)</b>		
Breaker Close	n/a	
Generator Volts	n/a	
Breaker Open	n/a	
Generator *KW*	n/a	
<b>Reason For Use</b>		
Testing:	n/a	
Emergency:	n/a	
Maintenance:	✓	
Confirm Master Control Turned Back on Auto: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
This emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.		
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## Emergency Diesel Generator Weekly Test Log

Plant: **BETA** Date: **1-14-18**

Operator: **PHIL**

Main Generator Breaker		Comments	
Open		<b>NO WEEKLY TEST EMERGENCY USE ONLY</b>	
Closed			
Engine		Comments	
Start Time:	<b>0</b>		
Stop Time:	<b>0</b>		
Total Run Time:	<b>0</b>		
Starting Hour Meter Reading	<b>398.7</b>		
Monthly Fuel Consumption(gal)	<b>NA</b>		
Oil Level	<b>GOOD</b>		
Coolant Level	<b>GOOD</b>	Coolant Temp. @ Start <b>58 *c</b>	Finish = <b>NA *c</b>
Belt Condition	<b>GOOD</b>		
Oil Pressure	<b>NA</b>	Start = <b>0</b> bar	Finish = <b>NA</b> bar
Battery Condition	<b>GOOD</b>		
Battery Voltage	<b>25.2</b>		
Engine RPMs	<b>NA</b>		
Generator		Comments	
Generator Volts			
Generator Amps	<b>NA</b>		
Generator "KVA"			
Reason For Use		Comments	
Testing			
Emergency	<b>NA</b>		
Maintenance			
Generator		Comments	
Fuel Delivered			
Fuel Level	<b>1/4 1/2 3/4 F 78%</b>		
Sulfur Concentrations <0.0015% (15ppm)			

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**Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.**

## Emergency Diesel Generator Weekly Test Log

Plant: **BGTA**

Date: **2-19-18**

Operator: **PHIL T**

Main Generator Breaker		Comments	
Open	✓		
Closed	N/A		
Engine		Comments	
Start Time:	0202		
Stop Time:	0212		
Total Run Time:	10 MINS		
Starting Hour Meter Reading	399.3	END	399.5
Monthly Fuel Consumption(gal)	N/A		
Oil Level	OK		
Coolant Level	OK	Coolant Temp. @ Start	59 °c Finish=75 °c
Belt Condition	OK		
Oil Pressure	6.8	Start = 7.1 bar	Finish = 6.8 bar
Battery Condition	OK		
Battery Voltage	26.6		
Engine RPMs	1800		
Generator		Comments	
Generator Volts	415		
Generator Amps	264		
Generator "KVA"	1745		
Reason For Use		Comments	
Testing	WEEKLY		
Emergency	X		
Maintenance	X		
Generator		Comments	
Fuel Delivered	NA		
Fuel Level	1/4 1/2 3/4 F 78%		
Sulfur Concentrations <0.0015% (15ppm)	NA		

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant: **BETA**

Date: **2/9/18**

Operator: **MANNY**

Main Generator Breaker		Comments
Open	✓	
Closed		
Engine		Comments
Start Time:	19:32	
Stop Time:	19:42	
Total Run Time:	10 MINS	
Starting Hour Meter Reading	399.2	
Monthly Fuel Consumption(gal)		
Oil Level	Good	
Coolant Level	Good	Coolant Temp. @ Start 55 *c Finish=76 *c
Belt Condition	Good	
Oil Pressure	Good	Start = 0.0 bar Finish=4.8 bar
Battery Condition	Good	
Battery Voltage	25.8	
Engine RPMs	1800	
Generator		Comments
Generator Volts	4.17 KV	
Generator Amps	288	
Generator "KVA"	4021	
Reason For Use		Comments
Testing	✓	
Emergency		
Maintenance		
Generator		Comments
Fuel Delivered		
Fuel Level	1/4 1/2 <b>3/4</b> F	78%
Sulfur Concentrations		
<0.0015% (15ppm)		

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te: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.



## Emergency Diesel Generator Weekly Test Log

Plant: Beta

Date: 2-24-18

Operator: Caleb Sowards

Main Generator Breaker		Comments	
Open	✓	FOR TEST PURPOSE	
Closed	✓	BACK IN S/B	
Engine		Comments	
Start Time:	2307		
Stop Time:	2517		
Total Run Time:	10 min		
Starting Hour Meter Reading	399.5	399.7 ending	
Monthly Fuel Consumption(gal)	18 gal		
Oil Level	good		
Coolant Level	good	Coolant Temp. @ Start	56 °c
Belt Condition	good	Finish=	75 °c
Oil Pressure	good	Start =	9.1 bar
Battery Condition	good	Finish=	6.8 bar
Battery Voltage	26.7		
Engine RPMs	1800		
Generator		Comments	
Generator Volts	na		
Generator Amps	na		
Generator "KVA"	na		
Reason For Use		Comments	
Testing	✓		
Emergency	N/A		
Maintenance	N/A		
Generator		Comments	
Fuel Delivered	na		
Fuel Level	1/4 1/2 3/4 F	78%	
Sulfur Concentrations <0.0015% (15ppm)	N/A	20 ppm	

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e: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

19  
28  
57  
76  
20

## Emergency Diesel Generator Weekly Test Log

Plant: Beta

Date: 12-22-18

Operator: Caleb Sowards

Main Generator Breaker	Comments
Open	✓
Closed	

Engine	Comments
Start Time:	4:10
Stop Time:	4:20
Total Run Time:	10 min
Starting Hour Meter Reading	463.7 463.9 ending
Monthly Fuel Consumption(gal)	
Oil Level	good
Coolant Level	good
Coolant Temp. @ Start	42 °c
Finish=	°c 78
Belt Condition	good
Oil Pressure	Start = bar 8.8
Finish=	6.8 bar
Battery Condition	good
Battery Voltage	26.7
Engine RPMs	1800

Generator	Comments
Generator Volts	na
Generator Amps	na
Generator "KVA"	na

Reason for Use	Comments
Testing	✓
Emergency	
Maintenance	

Generator	Comments
Fuel Delivered	no
Fuel Level	1/4 1/2 3/4 F 88% 70
Sulfur Concentrations <0.0015% (15ppm)	

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.



## Emergency Diesel Generator Weekly Test Log

Plant: Beta

Date: 12-14-18

Operator: L. Shell

Main Generator Breaker		Comments	
Open	X		
Closed			
Engine		Comments	
Start Time:	0610		
Stop Time:	0620		
Total Run Time:	10 min.		
Starting Hour Meter Reading	463.6		
Monthly Fuel Consumption(gal)			
Oil Level	@ max		
Coolant Level	OK	Coolant Temp. @ Start	73 °c Finish=75 °c
Belt Condition	Good		
Oil Pressure	bar	Start = 8.3 bar	Finish=6.9 bar
Battery Condition	Good		
Battery Voltage	26.2		
Engine RPMs	1800		
Generator		Comments	
Generator Volts			
Generator Amps			
Generator "KVA"			
Reason For Use		Comments	
Testing	X		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered	88% 46		
Fuel Level	1/4 1/2 3/4 F	88%	
Sulfur Concentrations <0.0015% (15ppm)			

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant: Beta

Date: 12-8-18

Operator: Caleb Saunders

Main Generator Breaker		Comments	
Open	✓		
Closed			
Engine		Comments	
Start Time:	04.05		
Stop Time:	04.15		
Total Run Time:	10 min		
Starting Hour Meter Reading	463.4	ending	463.6
Monthly Fuel Consumption(gal)	38		
Oil Level	good		
Coolant Level	good	Coolant Temp. @ Start	43 °c
		Finish=	74 °c
Belt Condition	good		
Oil Pressure	good	Start = 9.1 bar	Finish= 7 bar
Battery Condition	good		
Battery Voltage	26.6		
Engine RPMs	1800		
Generator		Comments	
Generator Volts	n/a		
Generator Amps	n/a		
Generator "KVA"	n/a		
Reason for use		Comments	
Testing	✓		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered	n/a		
Fuel Level	1/4 1/2 3/4 F		
Sulfur Concentrations	<0.0015% (15ppm)		

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.



## Emergency Diesel Generator Weekly Test Log

Plant: Beta

Date: 12-2-18

Operator: Caleb

Main Generator Breaker		Comments	
Open	<u>Open</u>		
Closed			
Engine		Comments	
Start Time:	<u>0410</u>		
Stop Time:	<u>0420</u>		
Total Run Time:	<u>10 min</u>		
Starting Hour Meter Reading	<u>463.2</u>	<u>ending</u>	
Monthly Fuel Consumption(gal)	<u>19</u>		
Oil Level	<u>Good</u>		
Coolant Level	<u>Good</u>	Coolant Temp. @ Start <u>43</u> °c	Finish = <u>72</u> °c
Belt Condition	<u>Good</u>		
Oil Pressure	<u>Good</u>	Start = <u>8.6</u> bar	Finish = <u>70</u> bar
Battery Condition	<u>Good</u>		
Battery Voltage	<u>26.6</u>		
Engine RPMs	<u>1800</u>		
Generator		Comments	
Generator Volts	<u>N/A</u>		
Generator Amps	<u>N/A</u>		
Generator "KVA"	<u>N/A</u>		
Reason For Use		Comments	
Testing	<u>✓</u>		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered	<u>N/A</u>		
Fuel Level	<u>89</u>		
Sulfur Concentrations <0.0015% (15ppm)			

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant: **BETA** Date: **11/24/18**

Operator: **PLAZA**

Main Generator Breaker		Comments	
Open	✓		
Closed			
Engine		Comments	
Start Time:	0335		
Stop Time:	0345		
Total Run Time:	10 Mins.		
Starting Hour Meter Reading	463.1	463.2	
Monthly Fuel Consumption(gal)			89.1 LEVEL
Oil Level	N		
Coolant Level	N	Coolant Temp. @ Start 44 °c	Finish=75 °c
Belt Condition	Good		
Oil Pressure	bar	Start = 8.4 bar	Finish = 6.9 bar
Battery Condition	Good		
Battery Voltage	26.9		
Engine RPMs	1800		
Generator		Comments	
Generator Volts			
Generator Amps			
Generator "KVA"			
Reason For Use		Comments	
Testing	✓		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered			
Fuel Level	1/4 1/2 3/4 F		
Sulfur Concentrations <0.0015% (15ppm)			

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.



## Emergency Diesel Generator Weekly Test Log

Plant: <b>BETA</b>		Date: <b>11/16/18</b>	
Operator: <b>PLAZA</b>			
Main Generator Breaker		Comments	
Open		✓	
Closed			
Engine		Comments	
Start Time:		<b>2045</b>	
Stop Time:		<b>2055</b>	
Total Run Time:		<b>10 Mins.</b>	
Starting Hour Meter Reading		<b>462.9</b>	
Monthly Fuel Consumption(gal)		<b>463.1</b>	
Oil Level		<b>N</b>	
Coolant Level		<b>N</b>	
Coolant Temp. @ Start		<b>45°C</b>	
Coolant Temp. @ Finish		<b>70°C</b>	
Belt Condition		<b>GOOD</b>	
Oil Pressure		<b>Start = 8.5 bar</b>	
Oil Pressure		<b>Finish = 6.9 bar</b>	
Battery Condition		<b>GOOD</b>	
Battery Voltage		<b>26.8</b>	
Engine RPMs		<b>1800</b>	
Generator		Comments	
Generator Volts			
Generator Amps			
Generator "KVA"			
Reason For Use		Comments	
Testing		✓	
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered			
Fuel Level	1/4	1/2	3/4
Fuel Level	F		
Sulfur Concentrations			
<0.0015% (15ppm)			

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant:		Date:	
Beta		11-10-18	
Operator: Collin Anderson			
Main Generator Breaker		Comments	
Open	✓		
Closed			
Engine		Comments	
Start Time:	1800		
Stop Time:	1815		
Total Run Time:	15 mins		
Starting Hour Meter Reading	462-6		
Monthly Fuel Consumption(gal)			
Oil Level	Normal		
Coolant Level	*C	Coolant Temp. @ Start	Finish=75 *c
Belt Condition	Good		
Oil Pressure	Start =	bar 8-8	Finish=6.9 bar
Battery Condition	Good		
Battery Voltage	26.5		
Engine RPMs	1800		
Generator		Comments	
Generator Volts	4.15 kV		
Generator Amps			
Generator "KVA"			
Reason For Use		Comments	
Testing	✓		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered			
Fuel Level	1/4 1/2 3/4 F		
Sulfur Concentrations			
<0.0015% (15ppm)			
<p>This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.</p> <p>This engine may operate in response to notification of impending loss of utility back-feed power if the interconnected utility has ordered an outage to the plant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage and the engine is shut immediately after the utility advises that the outage no longer imminent or in effect.</p> <p>Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.</p>			



## Emergency Diesel Generator Weekly Test Log

Plant: <b>Beta</b>		Date: <b>11-3-18</b>	
Operator: <b>L. Shell</b>			
Main Generator Breaker		Comments	
Open	<input checked="" type="checkbox"/>		
Closed			
Engine		Comments	
Start Time:	<b>02:02</b>		
Stop Time:	<b>02:12</b>		
Total Run Time:	<b>10 min</b>		
Starting Hour Meter Reading	<b>462.4</b>		
Monthly Fuel Consumption(gal)			
Oil Level	<b>@ max mark</b>		
Coolant Level	<b>Full</b>	Coolant Temp. @ Start	<b>43*c</b> Finish= <b>75*c</b>
Belt Condition	<b>Good</b>		
Oil Pressure	<b>Start = 8.4 bar</b>	<b>Finish = 6.9 bar</b>	
Battery Condition	<b>Good</b>		
Battery Voltage	<b>26.7</b>		
Engine RPMs	<b>1799/1800</b>		
Generator		Comments	
Generator Volts			
Generator Amps			
Generator "KVA"			
Reason For Use		Comments	
Testing	<input checked="" type="checkbox"/>		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered	<b>NO</b>		
Fuel Level	<b>1/4 1/2 3/4 F 39%</b>		
Sulfur Concentrations <0.0015% (15ppm)			

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant: **Beta**

Date:

10-27-18

Operator: **Shell**

Main Generator Breaker		Comments	
Open	X		
Closed			
Engine		Comments	
Start Time:	19:11		
Stop Time:	19:22		
Total Run Time:	10 min		
Starting Hour Meter Reading	462.3		
Monthly Fuel Consumption(gal)			
Oil Level	Good		
Coolant Level	Good	Coolant Temp. @ Start 40 °c	Finish= 72 °c
Belt Condition	Good		
Oil Pressure	bar	Start = 8.3 bar	Finish= 7.0 bar
Battery Condition	Good		
Battery Voltage	26.6		
Engine RPMs	1799		
Generator		Comments	
Generator Volts			
Generator Amps			
Generator "KVA"			
Reason For Use		Comments	
Testing	X		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered	89% - 10		
Fuel Level	1/4 1/2 3/4 F	89%	
Sulfur Concentrations <0.0015% (15ppm)			

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.



## Emergency Diesel Generator Weekly Test Log

Plant: Beta Date: 10-20-18

Operator: Collin Anderson

Main Generator Breaker		Comments	
Open	✓		
Closed			
Engine		Comments	
Start Time:	<u>2143</u>		
Stop Time:	<u>2158</u>		
Total Run Time:	<u>15 minutes</u>		
Starting Hour Meter Reading	<u>462.0</u>		
Monthly Fuel Consumption(gal)			
Oil Level	<u>Normal</u>		
Coolant Level	<u>Normal</u>	Coolant Temp. @ Start <u>44</u> *c	Finish = <u>76</u> *c
Belt Condition	<u>Good</u>		
Oil Pressure		Start = bar <u>8.7</u>	Finish = <u>6.8</u> bar
Battery Condition	<u>Good</u>		
Battery Voltage	<u>26.4</u>		
Engine RPMs	<u>1800</u>		
Generator		Comments	
Generator Volts	<u>4.17 kV</u>		
Generator Amps			
Generator "KVA"			
Reason For Use		Comments	
Testing	✓		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered			
Fuel Level	1/4 1/2 3/4 F		
Sulfur Concentrations <0.0015% (15ppm)			

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

Emergency Diesel Generator Weekly Test Log

Plant: BETA Date: 10/12/18

Operator: Caleb Saunders

Main Generator Breaker		Comments	
Open	<input checked="" type="checkbox"/>		
Closed	<input type="checkbox"/>		
Engine		Comments	
Start Time:	<u>0842</u>		
Stop Time:	<u>0852</u>		
Total Run Time:	<u>10 MIN.</u>		
Starting Hour Meter Reading	<u>461.8</u>	<u>462.0</u>	
Monthly Fuel Consumption(gal)			
Oil Level	<u>N</u>		
Coolant Level	<u>N</u>	Coolant Temp. @ Start <u>45</u> *c	Finish= <u>75</u> *c
Belt Condition	<u>N</u>		
Oil Pressure		Start= <u>8.4</u> bar	Finish= <u>6.9</u> bar
Battery Condition	<u>N</u>		
Battery Voltage	<u>26.6</u>		
Engine RPMs	<u>1800</u>		
Generator		Comments	
Generator Volts			
Generator Amps			
Generator "KVA"	<u>4.1</u>		
Reason For Use		Comments	
Testing	<input checked="" type="checkbox"/>		
Emergency	<input type="checkbox"/>		
Maintenance	<input type="checkbox"/>		
Generator		Comments	
Fuel Delivered	<u>NO</u>		
Fuel Level	1/4 1/2 3/4 F <u>85%</u>		
Sulfur Concentrations <0.0015% (15ppm)			

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.



## Emergency Diesel Generator Weekly Test Log

Plant: Beta

Date: 10-5-18

Operator: Caleb Sowards

Main Generator Breaker		Comments
Open	✓	
Closed		
Engine		Comments
Start Time:	<u>0315</u>	
Stop Time:	<u>0325</u>	
Total Run Time:	<u>10 min</u>	
Starting Hour Meter Reading	<u>461.7</u>	<u>461.8 ending</u>
Monthly Fuel Consumption(gal)	<u>K1</u>	
Oil Level	<u>Full</u>	
Coolant Level	<u>good</u>	Coolant Temp. @ Start <u>45</u> *c      Finish = <u>75</u> *c
Belt Condition	<u>good</u>	
Oil Pressure		Start = <u>8.9</u> bar      Finish = <u>6.8</u> bar
Battery Condition	<u>good</u>	
Battery Voltage	<u>26.8</u>	
Engine RPMs	<u>1800</u>	
Generator		Comments
Generator Volts	<u>NA</u>	
Generator Amps	<u>NA</u>	
Generator "KVA"	<u>NA</u>	
Reason For Use		Comments
Testing	✓	
Emergency		
Maintenance		
Generator		Comments
Fuel Delivered	<u>NO</u>	
Fuel Level	<u>68</u>	<u>10-11-18 - Filled to 90%</u>
Sulfur Concentrations <0.0015% (15ppm)	<u>YES</u>	

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at Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant: Bzta

Date: 9/30/18

Operator: Caleb Sowards

Main Generator Breaker		Comments
Open	✓	
Closed		
Engine		Comments
Start Time:	0404	
Stop Time:	0414	
Total Run Time:	10 min	
Starting Hour Meter Reading	45.6	
Monthly Fuel Consumption(gal)	45.6	
Oil Level	good	
Coolant Level	good	Coolant Temp. @ Start <u>45</u> *c Finish= <u>75</u> *c
Belt Condition	good	
Oil Pressure		Start = <u>8.2</u> bar Finish = <u>6.9</u> bar
Battery Condition	good	
Battery Voltage	26.6	
Engine RPMs	1800	
Generator		Comments
Generator Volts	4.16	
Generator Amps	264	
Generator "KVA"	4.21	
Reason For Use		Comments
Testing	✓	
Emergency		
Maintenance		
Generator		Comments
Fuel Delivered	no	
Fuel Level	1/4 1/2 3/4 F	
Sulfur Concentrations		
<0.0015% (15ppm)		

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.



## Emergency Diesel Generator Weekly Test Log

Plant: <b>BETA</b>		Date: <b>9/22/18</b>	
Operator: <b>MANUEL GARCIA</b>			
<b>Main Generator Breaker</b>		<b>Comments</b>	
Open	✓		
Closed			
<b>Engine</b>		<b>Comments</b>	
Start Time:	01:31		
Stop Time:	01:41		
Total Run Time:	10 mins		
Starting Hour Meter Reading	461.4		
Monthly Fuel Consumption(gal)			
Oil Level	Good		
Coolant Level	Good	Coolant Temp. @ Start	44*c      Finish=75*c
Belt Condition	Good		
Oil Pressure	Good	Start = 0 bar	Finish=6.9 bar
Battery Condition	Good		
Battery Voltage	26.5		
Engine RPMs	1800		
<b>Generator</b>		<b>Comments</b>	
Generator Volts	4.17kv		
Generator Amps			
Generator "KVA"	4021		
<b>Reason For Use</b>		<b>Comments</b>	
Testing	✓		
Emergency	—		
Maintenance	—		
<b>Generator</b>		<b>Comments</b>	
Fuel Delivered			
Fuel Level	1/4 1/2 3/4 F	68%	
Sulfur Concentrations			
<0.0015% (15ppm)			

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

## Emergency Diesel Generator Weekly Test Log

Plant: Beta Date: 9/16/18

Operator:

Main Generator Breaker		Comments
Open		
Closed		
Engine		Comments
Start Time:		<u>7:07 pm</u>
Stop Time:		<u>7:18 pm</u>
Total Run Time:		<u>10 min</u>
Starting Hour Meter Reading		<u>4662</u>
Monthly Fuel Consumption(gal)		
Oil Level		<u>✓</u>
Coolant Level		<u>✓</u> Coolant Temp. @ Start <u>45</u> *c Finish= <u>76</u> *c
Belt Condition		<u>✓</u>
Oil Pressure		<u>✓</u> Start = <u>8.5</u> bar Finish= <u>6.9</u> bar
Battery Condition		<u>✓</u>
Battery Voltage		<u>26.2</u>
Engine RPMs		<u>1799</u>
Generator		Comments
Generator Volts		<u>4.14</u>
Generator Amps		<u>6376</u>
Generator "KVA"		<u>2438</u>
Reason For Use		Comments
Testing		<u>✓</u>
Emergency		
Maintenance		
Generator		Comments
Fuel Delivered		
Fuel Level	1/4 1/2 3/4 F	
Sulfur Concentrations <0.0015% (15ppm)		

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.



## Emergency Diesel Generator Weekly Test Log

Plant:

Beta

Date:

9/9/18

Operator:

Rico T

Main Generator Breaker		Comments	
Open			
Closed			
Engine		Comments	
Start Time:		6:31 pm	
Stop Time:		6:41 pm	
Total Run Time:		10 min	
Starting Hour Meter Reading		466.5	
Monthly Fuel Consumption(gal)			
Oil Level		✓	
Coolant Level		✓	
Coolant Temp. @ Start		46°C	
Coolant Temp. @ Finish		76°C	
Belt Condition		✓	
Oil Pressure		Start = 85 bar	
Oil Pressure		Finish = 69 bar	
Battery Condition		✓	
Battery Voltage		26.2	
Engine RPMs		1800	
Generator		Comments	
Generator Volts		4.14	
Generator Amps		1040	
Generator "KVA"		4.16	
Reason For Use		Comments	
Testing		✓	
Emergency		weekly	
Maintenance			
Generator		Comments	
Fuel Delivered		NO	
Fuel Level	1/4 1/2 3/4 F		
Sulfur Concentrations <0.0015% (15ppm)			

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

This engine may operate in response to notification of impending loss of utility back-feed power if the interconnected utility has ordered an outage to the plant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage and the engine is shut immediately after the utility advises that the outage no longer imminent or in effect.

∴ Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.