

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

ABENGOA NORTH AMERICA

Mojave Solar LLC

42134 Harper Lake Road
Hinkley, California 92347

Phone: 760-308-0400



SUBMITTED ELECTRONICALLY

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

2/28/2019

Keith Winstead, CPM
California Energy Commission
1516 Ninth Street
Sacramento, California 95814
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

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

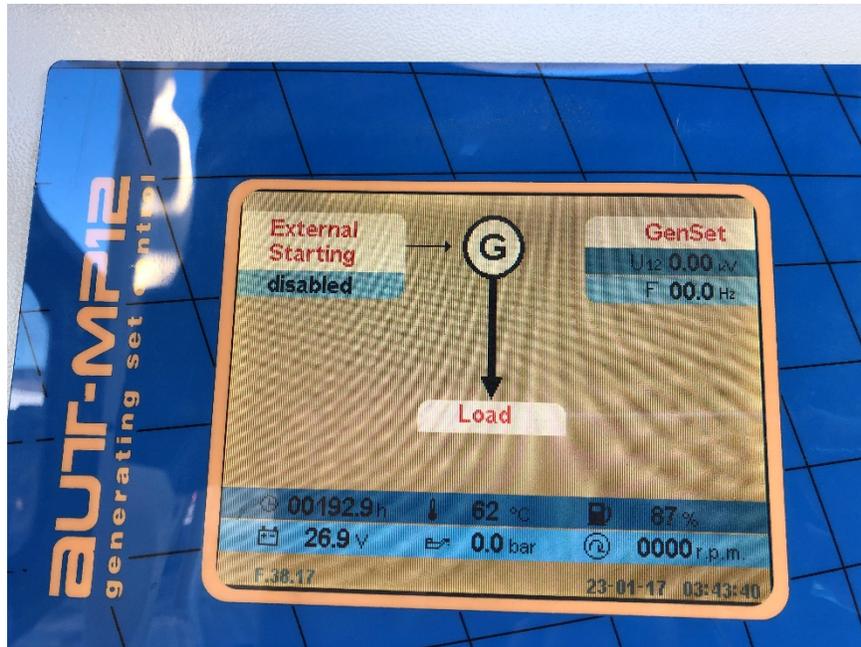
2018 Emergency diesel generator and fire diesel pump panel pictures, sulfur content and engine use limitations documents

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

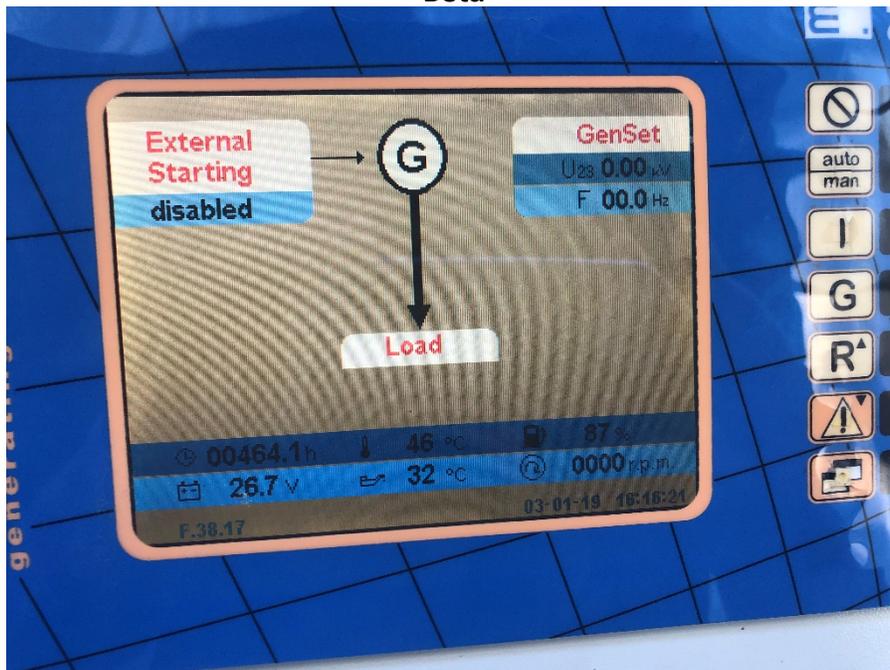
2018 Reporting Period

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

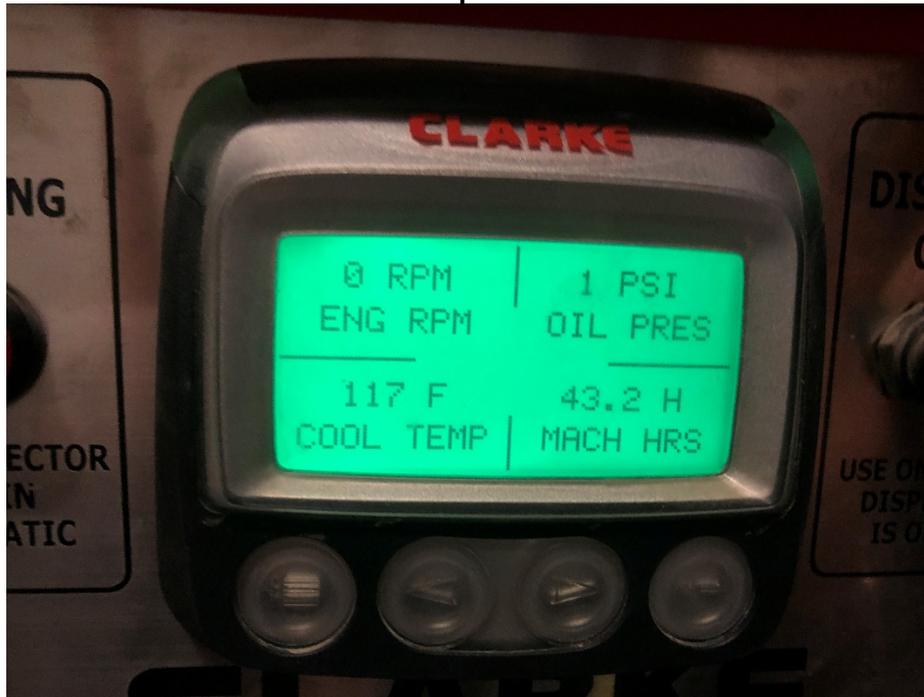
Alpha



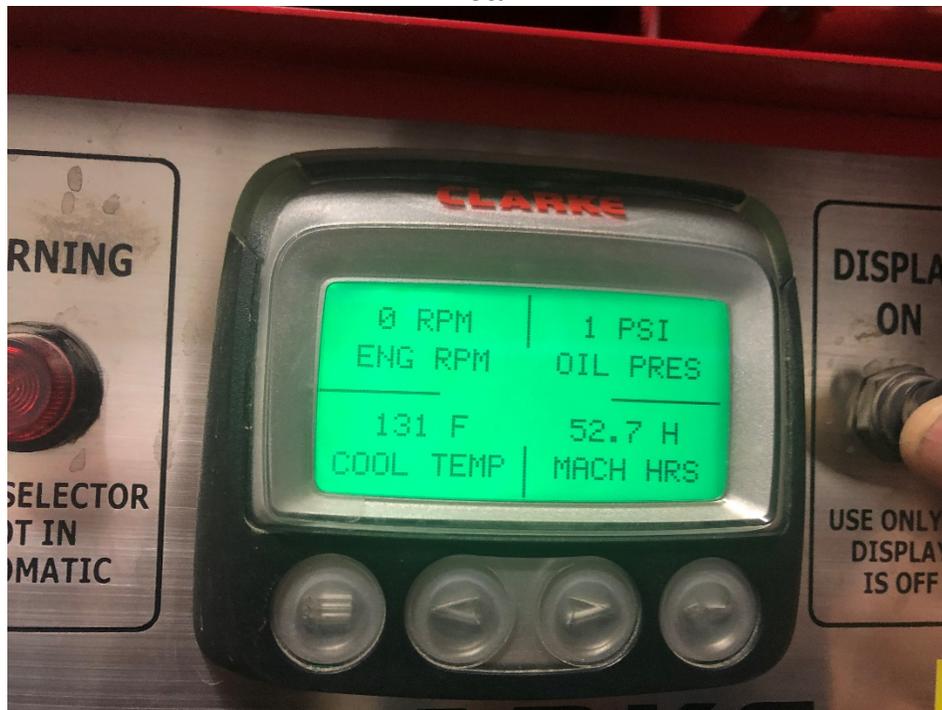
Beta



Alpha



Beta



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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 AM	
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).	
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)]	

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 <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	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	170	O/C	/	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	170	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"/>	
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	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	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	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	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	180	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	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	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 #4	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"/>	

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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).	
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)]	

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	LOTO	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 N/A			

To Be Cycled First Saturday of Every Month

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

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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 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: 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: 22:00 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)]	

Plant: ALPHA BETA

Date: 12-9-18

Operator E. S. ...

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 -	lots
11	Turbine Hose Stations B1-11	0	✓ O/C	✓	Y ✓ N -	lots
12	Turbine Bearings B1-12	160	✓ O/C	✓	Y ✓ N -	lots

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 -	

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>	

Plant: ALPHA BETA: Date: 12-2-18 Operator: PAUL ROEBERS

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: Eric Marks	<i>*To be completed each time unit is operated.</i>
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: 27V Battery volt Crank 2: 27V	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)]	

Plant: ALPHA BETA: Date: 11-25-18 Operator: PHIL TOULLEU'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"/>	

ABENGOA

Mojave Solar LLC

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 Markes	*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).	
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)]	

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 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	11/15/18	
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).	
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)]	

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	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	165	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	172	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	170	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	170	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	168	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	165	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	165	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	170	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	175	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	165	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	165	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	170	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	172	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	170	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	165	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	175	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	170	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	165	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	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"/>	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"/>	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	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	OK	11-3		
2	Maintenance Shop Drive Way #8	OK	11-3		
3	West Side Power Block by VS-3 # 9	OK	11-3		
4	West Side Power Block by VS-1 # 10	OK	11-3		
5	West Side Cooling Tower by VS-4 # 11	OK	11-3		
6	West side Cooling Tower by VS-4 # 12	OK	11-3		
7	N.W. Corner Chemical Storage #1	OK	11-3		
8	N.E. Corner Chemical Storage # 2	OK	11-3		
9	East Side W T by Multimedia Filters # 3	OK	11-3		
10	East Side W.T. by Multimedia Filters # 5	OK	11-3		
11	North Side Bldg 10 # 6	OK	11-3		
12	Between MP-444 s and Water Treat # 4	O/C			
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 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: 11-3-18
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: 45 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	Valv. 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	Valv. 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	Valv. 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	Valv. Pos.	Signage	Locked	Comments
1	Cooling Tower West Side	165	O/C	✓	Y / N	

Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Valv. 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	Valv. 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	Valv. 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	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	

ABENGOA

Mojave Solar LLC

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: 1750
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: 30 mins
Comments: High temp air charge 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: 10-27-18 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		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	OK	✓	Y ✓ N	
2	Offices B4-3	160	O/C	✓	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	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: 10/18/18
Operator: Rico	<i>*To be completed each time unit is operated</i>
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: 38.8 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	170	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	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: 10-14-18	
Operator: PAUL TOURBELLIS	*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: 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 <input checked="" type="checkbox"/> Oil <input 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: 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: 150	
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).		
<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: 10-12-18 Operator: EPraia

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	✓ O/C	X	10-5	
2	Maintenance Shop Drive Way #8	✓ O/C	X	10-5	
3	West Side Power Block by VS-3 # 9	✓ O/C	X	10-5	
4	West Side Power Block by VS-1 # 10	✓ O/C	X	10-5	
5	West Side Cooling Tower by VS-4 # 11	✓ O/C	X	10-5	
6	West side Cooling Tower by VS-4 # 12	✓ O/C	X	10-5	
7	N.W. Corner Chemical Storage #1	✓ O/C	X	10-5	
8	N.E. Corner Chemical Storage # 2	✓ O/C	X	10-5	
9	East Side W.T. by Multimedia Filters # 3	✓ O/C	X	10-5	
10	East Side W.T. by Multimedia Filters # 5	✓ O/C	X	10-5	
11	North Side Bldg 10 # 6	✓ O/C	X	10-5	
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	

ABENGOA

Mojave Solar LLC

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: 2:50		
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).		
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.		
here 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: 10-5-18 Operator: PHIL TOULGEUS

Valve Shed # 1 by Condenser

No.	System	PSI	Vlv. 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	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	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	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	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	170	O/C	✓	Y ✓ N	
2	Offices B4-3	170	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	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	open	Y ✓ N	

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	Yes		
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 ✓ N	

ABENGOA

Mojave Solar LLC

Fire Pump Weekly Test Log

General Information	
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 9-29-18
Operator: Phil Korbels	*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: 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 *W* BETA:

Date: *9-29-18*

Operator: *Phil Toubeus*

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	

ABENGOA

Mojave Solar LLC

Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 9-22-18	
Operator: Efm'n	*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: 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 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: 37.4	Start time: 0032	Start up pressure: 145 psi
Oil pressure start: 1 psi	Oil Pressure finish:	
Pump Suction Pressure: 20 psi	Pump Discharge pressure: 145 psi	
Coolant temperature after 30 minutes running: 178 178		
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.		
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: 9-21-18 Operator: PHIL TORRELLIS

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	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			

9-8-18

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 checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 9-23-18
Operator: <i>Collin Anderson</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>185</i>
Discharge Pressure: <i>165</i>
Pump Suction Pressure: <i>N/A</i> Pump Discharge pressure: <i>165</i>
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: <i>145</i>
Start time: <i>1945</i>
Pump Suction Pressure: <i>0</i> Pump Discharge pressure: <i>150</i>
Stop time: <i>1955</i> Total time running <i>10 Minutes</i>
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: <i>X</i> Battery volt Crank 2:	Battery Condition: <i>Good</i>
Starting hour meter: <i>37</i>	Start time: <i>2000</i> Start up pressure:
Oil pressure start: <i>69</i>	Oil Pressure finish: <i>39</i>
Pump Suction Pressure: <i>0</i>	Pump Discharge pressure: <i>150</i>
Coolant temperature after 30 minutes running: <i>189</i>	
Stop time: <i>2030</i> Stop hour meter: <i>37.4</i> Total time running: <i>30 Minutes</i>	
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: 9-15-18 Operator: PHIL TOLAN

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	160	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	160	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	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	160	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	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	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	O	Y/N	

PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	X	9-8-18	
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		
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	

ABENGOA

Mojave Solar LLC

Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 9/9/18	
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: 154		
Discharge Pressure: 155		
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: 164 @ 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 <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: <input checked="" type="checkbox"/> 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	Over flow 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 volt Crank 2: 27.3	Battery Condition:	
Starting hour meter: 36.4, 36.6 end.	Start time: 2225	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	Stop hour meter:	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).		
<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: 9-2-18 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 <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	Vlv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	175	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	175	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	175	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	175	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	175	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	175	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	175	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	175	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	Overflow AFFF B2-8	175	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	175	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 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	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	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	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	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			
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 type="checkbox"/> N <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: 8-27-18	
Operator: Phil TORGUIS	*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: 20:03		
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.		
here 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	Over flow 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 Morides	*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 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).		
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: 8-19-18 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 Spnkler 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	

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	

ABENGOA

Mojave Solar LLC

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 TOULBEN S

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"/>	

ABENGOA

Mojave Solar LLC

Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 7-28-18	
Operator: PHIL TOULGELS	*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).		
<small>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.</small>		
<small>Note: Fuel consumption 27 gal/ h approximately.</small>		
<small>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</small>		

Automated Fire Systems Inspection Checklist

Plant: ALPHA *A* BETA: Date: 7-26-18 Operator: PHIL TOUGERALS

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	0	O/C	✓	Y N	
3	Reheaters B1-3	0	O/C	✓	Y N	
4	Rack 2 West HTF B1-4	0	O/C	✓	Y N	
5	Rack 2 East HTF B1-5	0	O/C	✓	Y N	
6	North Steel Pro B1-6	0	O/C	✓	Y N	
7	HTF Pumps B1-7	0	O/C	✓	Y N	
8	HTF Heaters B1-8	0	O/C	✓	Y N	
9	South Steel Pro B1-9	0	O/C	✓	Y N	
10	Lube Oil B1-10	0	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	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	0	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	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	0	O	Y N	

PIV Checks

No.	System	Position	Cycled	Date Cycled	Comments
1	Maintenance Shop Drive Way #7	O/C	X	7-18	
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		
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	

ABENGOA

Mojave Solar LLC

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 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).	
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.	
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	13	✓ 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	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.	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 - NX	

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	✓		late and in data

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 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: <i>PUMP IS CURRENTLY OFF.</i>		
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: <i>PUMP IS CURRENTLY OFF.</i>		
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: <i>PUMP IS CURRENTLY OFF.</i>		
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>		

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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 Hose 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	NA			

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: 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. 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/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	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"/>	

ABENGOA

Mojave Solar LLC

Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 7-6-18	
Operator: PHIL TOURGEIS	*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>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

OK

Plant: ALPHA BETA: Date: 7-7-18 Operator: Michael Ainton

Valve Shed # 1 by Condenser

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

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 ✓ N -	

Beta →

ABENGOA

Mojave Solar LLC

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)		
<small>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.</small>		
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: 6-30-18 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	100	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	175	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	/	Y N	
2	Bearing 3	Y N	O/C	/	Y N	
3	Bearing 4	Y N	O/C	/	Y N	
4	Bearing 5	Y N	O/C	/	Y N	

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	/	Y N	
2	MP-200A	Y N	O/C	/	Y N	
3	MP-200B	Y N	O/C	/	Y N	
4	MP-200C	Y N	O/C	/	Y N	
5	MP-200D	Y N	O/C	/	Y N	

Fire Pump House Deluge System						
No.	System	PSI	O/C	Locked	Comments	
1	Fire Pump House Deluge	150	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			
3	West Side Power Block by VS-3 # 9	O/C	X	6		
4	West Side Power Block by VS-1 # 10	O/C	X	6		
5	West Side Cooling Tower by VS-4 # 11	O/C	X	17		
6	West side Cooling Tower by VS-4 # 12	O/C	X	17		
7	N.W. Corner Chemical Storage #1	O/C	X	18		
8	N.E. Corner Chemical Storage # 2	O/C	X	18		
9	East Side W.T. by Multimedia Filters # 3	O/C	X	18		
10	East Side W.T. by Multimedia Filters # 5	O/C	X	18		
11	North Side Bldg 10 # 6	O/C	X	18		
12	Between MP-444's and Water Treat # 4	O/C	X	18		
13	West Side Power Block Valve Shed #1	O/C	X	18		

To Be Cycled First Saturday of Every Month						
No.	System	Debris	Y N	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: 6-23-18	
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:	
Op 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>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: 6-22-18 Operator: E. Sergio Morales

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	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	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"/>	

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>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: 6-17-18 Operator: Phil Tourellis

Valve Shed # 1 by Condenser						
No.	System	PSI	Vlv. 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	Vlv. 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	110	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	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	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.	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	✓			
2	Maintenance Shop Drive Way #8	O/C	✓			
3	West Side Power Block by VS-3 # 9	O/C	✓	6		
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	✓	18		
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: 6-10-18	
Operator: Ernie 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 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).		
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: 6-10-18 Operator: Phil Tollgens

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	Y	6-2	
8	N.E. Corner Chemical Storage # 2	O/C	Y	6-2	
9	East Side W.T. by Multimedia Filters # 3	O/C	Y	6-2	
10	East Side W.T. by Multimedia Filters # 5	O/C	Y	6-2	
11	North Side Bldg 10 # 6	O/C	Y	6-2	
12	Between MP-444's and Water Treat # 4	O/C	Y	6-2	
13	West Side Power Block Valve Shed #1	O/C	Y	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"/>	

ABENGOA

☉ Jave Solar LLC

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:
Up 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).		
<small>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.</small>		
Note: Fuel consumption 27 gal/ h approximately.		
<small>There is no limit on engine operation for emergency use. [Title 17 CCR 93115.6(a)(4)]</small>		

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	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	25	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	25	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	25	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	30	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	25	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	25	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	25	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	25	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	25	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	25	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	30	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	30	O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	30	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	20	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	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	✓	6-2	
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"/>	



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>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: 5/27/18 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"/>	

ABENGOA

Mojave Solar LLC

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: As 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:	
Stop 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).		
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: 5/20/18 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	Datris	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: 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).		
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: 5-12-18 Operator: PHIL CORRELL

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	5-5	
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	D/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	D/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	D/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	D/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	D/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	D/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	165	D/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	165	D/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	165	D/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	D/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	160	D/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 checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	165	D/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	165	D/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	165	D/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	155	D/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	155	D/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	D/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	D/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	D/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	D/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 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 TOURNELLS

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"/>	

ABENGOA

Mojave Solar LLC

Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 4-28-18	
Operator: PHIL TOULOUIS	*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: 02:28	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: 34.9	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)	
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: 4-22-18 Operator: Caleb Sowavols

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	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	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	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	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	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	220	O/C ✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	195	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	195	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	180	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	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	100	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	175	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	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 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	185	✓	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"/>	

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: 34.5 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)]	

ABENGOA

Mojave Solar LLC

Fire Pump Weekly Test Log

General Information	
Plant: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/>	Date: 4-5-18
Operator: <u>Paul Tougeus</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</u>	
Discharge Pressure: <u>165</u>	
Pump Suction Pressure: <u>15</u>	Pump Discharge pressure: <u>165</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>145</u>	
Start time: <u>0600</u>	
Pump Suction Pressure: <u>15</u>	Pump Discharge pressure: <u>160</u>
Stop time: <u>0610</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 type="checkbox"/> No <input checked="" type="checkbox"/> <u>50%</u>	Monthly Fuel Consumption:
Battery volt Crank 1: <u>28.7</u> Battery volt Crank 2: <u>28.7</u>	Battery Condition: <u>Good</u>
Starting hour meter: <u>34.1</u>	Start time: <u>16:05</u>
Oil pressure start: <u>72</u>	Oil Pressure finish: <u>41</u>
Pump Suction Pressure: <u>20</u>	Pump Discharge pressure: <u>150</u>
Coolant temperature after 30 minutes running: <u>189</u>	
Stop time: <u>1635</u>	Stop hour meter: <u>34.5</u> Total time running: <u>30 mins</u>
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 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 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"/>	

ABENGOA

Mojave Solar LLC

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).		
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 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	<i>*To be completed each time unit is operated.</i>	
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: 27.7 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>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: 2-2-18
Operator: Phil		<i>*To be completed each time unit is operated.</i>
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 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).		
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: 4-14-18 Operator: Erain

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	169	✓ 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	Dabris	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	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 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"/>	

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04

Automated Fire Systems Inspection Checklist

Plant: ALPHA BETA: Date: 3-9-18 Operator: Mike 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	165	O/C		Y ✓ N -	
4	Rack 2 West HTF B1-4	165	O/C		Y ✓ N -	
5	Rack 2 East HTF B1-5	165	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	165	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	165	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	165	O/C		Y ✓ N -	
5	Overflow Tanks B2-9	165	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	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	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	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	Debris	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	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	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	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	155	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	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	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"/>	

PH

Automated Fire Systems Inspection Checklist

Plant: ALPHA BETA: Date: 3-3-18 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).	
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: 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	150	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: *ESrain*

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 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).	
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: 2-11-18 Operator: Calek 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 PIV/Checks	Y ✓ N	

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: 42 185
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).

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: 1-27-18 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	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	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	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	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	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	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	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 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, #1074582; timing gear cover leaks #1074583		
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: 1-19-18 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 <input checked="" type="checkbox"/> N <input type="checkbox"/>	out of service for outage
2	SG Unit 2 B1-2	160	OC	✓	Y <input checked="" 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	155	O/C	↓	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	150	O/C	↓	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	155	O/C	↓	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	↓	O/C	↓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	↓	O/C	↓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	↓	O/C	↓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	↓	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	165	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	↓	O/C	↓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	↓	O/C	↓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	↓	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	155	O/C	↓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	↓	O/C	↓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	↓	O/C	↓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	↓	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	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	160	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	160	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	165	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	160	OC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	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	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	OC	No		
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	↓		

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

ojave Solar LLC

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	Battery Condition: Good, light acid build up
Starting hour meter: 28.8		Start time: 2055
Oil pressure start: 54		Oil Pressure finish: 44
Pump Suction Pressure: 10		Pump Discharge pressure: 160
Coolant temperature after 30 minutes running: 178		
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

Mojave 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	<i>*To be completed each time unit is operated.</i>	
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 volt Crank 2: 26.6	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).		
<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: 1-13-18

Operator: Caleb Sowards

Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	150	VOIC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	155	VOIC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	165	VOIC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	155	VOIC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	180	VOIC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	150	VOIC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	155	VOIC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	185	VOIC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	175	VOIC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	165	VOIC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	175	VOIC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	175	VOIC	✓	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	VOIC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	155	VOIC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	180	VOIC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	180	VOIC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	170	VOIC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	165	VOIC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	165	VOIC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	VOIC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	165	VOIC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	165	VOIC	✓	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	VOIC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	155	VOIC	✓	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	VOIC	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	VOIC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	165	VOIC	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	165	VOIC	✓	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"/>	VOIC	
2	Bearing 3	Yes <input type="checkbox"/> No <input type="checkbox"/>	VOIC	
3	Bearing 4	Yes <input type="checkbox"/> No <input type="checkbox"/>	VOIC	
4	Bearing 5	Yes <input type="checkbox"/> No <input type="checkbox"/>	VOIC	

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"/>	VOIC	
2	MP-200A	Yes <input type="checkbox"/> No <input type="checkbox"/>	VOIC	
3	MP-200B	Yes <input type="checkbox"/> No <input type="checkbox"/>	VOIC	
4	MP-200C	Yes <input type="checkbox"/> No <input type="checkbox"/>	VOIC	
5	MP-200D	Yes <input type="checkbox"/> No <input type="checkbox"/>	VOIC	

Fire Pump House Deluge System

No.	System	PSI	OIC	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	✓ OIC	✓	1-13-18	
2	Maintenance Shop Drive Way #8	OIC	✓	1-13-18	
3	West Side Power Block by VS-3 # 9	VOIC	✓	1-13-18	needs sensitive Lock Ring
4	West Side Power Block by VS-1 # 10	✓ OIC	✓	1-13-18	
5	West Side Cooling Tower by VS-4 # 11	✓ OIC	✓	1-13-18	needs a new Lock
6	West side Cooling Tower by VS-4 # 12	✓ OIC	✓	1-13-18	
7	N.W. Corner Chemical Storage #1	✓ OIC	✓	1-13-18	
8	N.E. Corner Chemical Storage # 2	VOIC	✓	1-13-18	
9	East Side W.T. by Multimedia Filters # 3	✓ OIC	✓	1-13-18	needs a new Lock
10	East Side W.T. by Multimedia Filters # 5	✓ OIC	✓	1-13-18	
11	North Side Bldg 10 # 6	✓ OIC	✓	1-13-18	
12	Between MP-444's and Water Treat # 4	OIC	✓	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 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: 1-7-18
Operator: Edrain 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: 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: 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: 27.9h 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).

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: 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		Battery Condition: good
Starting hour meter: 15.8		Start time: 1345
Oil pressure start: 71		Oil Pressure finish: 44
Pump Suction Pressure: 0 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).		
<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. 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: 7-1-17 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	V O/C		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters	160	V O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF	160	V O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF	160	V O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro	160	V O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps	160	V O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters	160	V O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro	160	V O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil	160	V O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations	160	V O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings	160	V 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	V O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area	165	V O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure	165	V O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area	85	V O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks	85	V O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area	90	V O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West	80	V O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area	80	V O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF	65	V O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF	65	V 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	V 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	V O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices	160	V O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room	160	V 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"/>	V O/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	V O/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	V O/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	V 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"/>	V O/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	V O/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	V O/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	V O/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	V O/C	

Fire Pump House Deluge System

No.	System	PSI	O/C	Locked	Comments
1	Fire Pump House Deluge	190	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 O/C	✓		
2	Maintenance Shop Drive Way #8	O O/C	✓		
3	West Side Power Block by VS-3 #9	O O/C	✓		
4	West Side Power Block by VS-1 #10	O O/C	✓		
5	West Side Cooling Tower by VS-4 #11	O O/C	✓		
6	West side Cooling Tower by VS-4 #12	O O/C	✓		
7	N.W. Corner Chemical Storage #1	O O/C	✓		
8	N.E. Corner Chemical Storage #2	O O/C	✓		
9	East Side W.T. by Multimedia Filters #3	O O/C	✓		
10	East Side W.T. by Multimedia Filters #5	O O/C	✓		
11	North Side Bldg 10 #6	O O/C	✓		
12	Between MP-444's and Water Treat #4	O O/C	✓		

No.	System	To Be Completed	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	O/C	Yes	<input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C	Yes	<input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	160	O/C	Yes	<input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	O/C	Yes	<input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	158	O/C	Yes	<input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	158	O/C	Yes	<input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	158	O/C	Yes	<input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	158	O/C	Yes	<input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	O/C	Yes	<input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	O/C	Yes	<input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	O/C	Yes	<input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	160	O/C	Yes	<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	Yes	<input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	160	O/C	Yes	<input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	O/C	Yes	<input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	O/C	Yes	<input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	O/C	Yes	<input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	O/C	Yes	<input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	O/C	Yes	<input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	O/C	Yes	<input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	O/C	Yes	<input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	O/C	Yes	<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	Yes	<input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	195	O/C	Yes	<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	158	O/C	Yes	<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	<input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	160	O/C	Yes	<input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	O/C	Yes	<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	<input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	Bearing 3	<input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	Bearing 4	<input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	Bearing 5	<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	<input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
2	MP-200A	<input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
3	MP-200B	<input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
4	MP-200C	<input checked="" type="checkbox"/> N <input type="checkbox"/>	O/C	
5	MP-200D	<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	<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	11/3	
2	Maintenance Shop Drive Way #8	O/C	No	11/3	
3	West Side Power Block by VS-3 # 9	O/C	No	11/3	
4	West Side Power Block by VS-1 # 10	O/C	No	11/3	
5	West Side Cooling Tower by VS-4 # 11	O/C	No	11/3	
6	West side Cooling Tower by VS-4 # 12	O/C	No	11/3	
7	N.W. Corner Chemical Storage #1	O/C	No	11/3	
8	N.E. Corner Chemical Storage # 2	O/C	No	11/3	
9	East Side W.T. by Multimedia Filters # 3	O/C	No	11/3	
10	East Side W.T. by Multimedia Filters # 5	O/C	No	11/3	
11	North Side Bldg 10 # 6	O/C	No	11/3	
12	Between MP-444's and Water Treat # 4	O/C	No	11/3	
13	West side Power Block Valve Shed #1	O/C	No	11/3	

To Be Cycled First Saturday of Every Month

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

ABENGOA

Mojave Solar LLC

Fire Pump Weekly Test Log

General Information

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

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	138	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 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	Y N X	

ABENGOA

Mojave Solar LLC

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 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
Starting hour meter: 570	Battery Condition: good
Oil pressure start: 70	Start time: 0220
Pump Suction Pressure: 0	Oil Pressure finish:
Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running: 189	
Stop time: 0235	Stop hour meter: 572
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).	
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: 12/8/18 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	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	Yes	12/8	
2	Maintenance Shop Drive Way #8	O/C	Yes	12/8	
3	West Side Power Block by VS-3 # 9	O/C	Yes	12/8	
4	West Side Power Block by VS-1 # 10	O/C	Yes	12/8	
5	West Side Cooling Tower by VS-4 # 11	O/C	Yes	12/8	
6	West side Cooling Tower by VS-4 # 12	O/C	Yes	12/8	
7	N.W. Corner Chemical Storage #1	O/C	Yes	12/8	
8	N.E. Corner Chemical Storage # 2	O/C	Yes	12/8	
9	East Side W.T. by Multimedia Filters # 3	O/C	Yes	12/8	
10	East Side W.T. by Multimedia Filters # 5	O/C	Yes	12/8	
11	North Side Bldg 10 # 6	O/C	Yes	12/8	
12	Between MP-444's and Water Treat # 4	O/C	Yes	12/8	
13	West side Power Block Valve Shed #1	O/C	Yes	12/8	

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 ZA

Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	165	O/C	Y	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	165	O/C	Y	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	165	O/C	Y	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	165	O/C	Y	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	165	O/C	Y	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	165	O/C	Y	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	165	O/C	Y	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	165	O/C	Y	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	165	O/C	Y	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	165	O/C	Y	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	165	O/C	Y	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	165	O/C	Y	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	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	165	O/C	Y	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	165	O/C	Y	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	165	O/C	Y	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	165	O/C	Y	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	165	O/C	Y	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	165	O/C	Y	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	165	O/C	Y	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	165	O/C	Y	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	165	O/C	Y	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	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	165	O/C	Y	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	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	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	165	O/C	Y	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	165	O/C	Y	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	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	12/1/18	
10	East Side W.T. by Multimedia Filters # 5	O/C	Y	12/1/18	
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 <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: 11-24-18
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 volt Crank 2: 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	Stop hour meter: 50.5 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: 11/23/18 Operator: RAC

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	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	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: 1605 1605	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).		
<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: 11/16/18 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 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: 11-11-18	
Operator: <u>Celia Anderson</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</u>		
Discharge Pressure: <u>165</u>		
Pump Suction Pressure: _____ Pump Discharge pressure: <u>165</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>145</u>		
Start time: <u>05^{CA} 1750</u>		
Pump Suction Pressure: _____ Pump Discharge pressure: <u>165</u>		
Stop time: <u>1800</u> Total time running <u>10 minutes</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: _____ Battery volt Crank 2: <u>✓</u>		Battery Condition: <u>Good</u>
Starting hour meter: <u>49.4</u>		Start time: <u>1805</u>
Oil pressure start: <u>67</u>		Oil Pressure finish: <u>48</u>
Pump Suction Pressure: <u>187</u> Pump Discharge pressure: <u>155</u>		
Coolant temperature after 30 minutes running: _____		
Stop time: <u>1835</u> Stop hour meter: <u>49.6</u> Total time running: <u>30 minutes</u>		
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: 11-10-18 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 <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	163	O/C	yes	YX N <input type="checkbox"/>	
10	Lube Oil B1-10	163	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	160	O/C	yes	YX N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	163	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	163	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 GR Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	163	O/C	yes	YX N <input type="checkbox"/>	
2	Transformer Main	163	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	170	O	YX N <input type="checkbox"/>	

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	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: 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 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).	
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 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: 29	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: Shell	<i>*To be completed each time unit is operated.</i>
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 PST	
Start time: 1858	
Pump Suction Pressure: 15 PST	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: 26.0	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 Blow 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 Skell

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	158	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	158	O/C	yes	YX N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	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	163	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	162	O/C	yes	YX N <input type="checkbox"/>	
2	Ullage Area B2-2	160	O/C	yes	YX N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	O/C	yes	YX N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	163	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	160	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	163	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	158	O/C	yes	YX N <input type="checkbox"/>	
2	Transformer Main	158	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	163	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	160	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	160	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	165	Open	YX N <input type="checkbox"/>	

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	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: 10-14-18
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 volt Crank 2: 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 hrs Bypass 5 min no charge 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	Yes	10/11/18	
2	Maintenance Shop Drive Way #8	OK	Yes	10/11/18	
3	West Side Power Block by VS-3 # 9	OK	Yes	10/16	
4	West Side Power Block by VS-1 # 10	OK	Yes	10/16	
5	West Side Cooling Tower by VS-4 # 11	OK	Yes	10/16	
6	West side Cooling Tower by VS-4 # 12	OK	Yes	10/16	
7	N.W. Corner Chemical Storage #1	OK	Yes	10/16	
8	N.E. Corner Chemical Storage # 2	OK	Yes	10/16	
9	East Side W.T. by Multimedia Filters # 3	OK	Yes	10/16	
10	East Side W.T. by Multimedia Filters # 5	OK	Yes	10/16	
11	North Side Bldg 10 # 6	OK	Yes	10/16	
12	Between MP-444's and Water Treat # 4	OK	Yes	10/16	
13	West side Power Block Valve Shed #1	OK	Yes	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	<i>*To be completed each time unit is operated.</i>
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 ran 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	<i>*To be completed each time unit is operated.</i>
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).	
<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: 10/6/18 Operator: PNZA

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: <i>Calcb Sowards</i>	<i>*To be completed each time unit is operated.</i>
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>155</i>	
Discharge Pressure: <i>168</i>	
Pump Suction Pressure: <i>15</i>	Pump Discharge pressure: <i>168</i>
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: <i>145</i>	
Start time: <i>0207</i>	
Pump Suction Pressure: <i>10</i>	Pump Discharge pressure: <i>164</i>
Stop time: <i>0217</i>	Total time running <i>10 mins</i>
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"/> <i>3/8</i>	Monthly Fuel Consumption: <i>54</i>
Battery volt Crank 1: <i>26</i> Battery volt Crank 2: <i>26</i>	Battery Condition: <i>good</i>
Starting hour meter: <i>46.2</i>	Start time: <i>0229</i>
Oil pressure start: <i>66</i>	Oil Pressure finish: <i>.</i>
Pump Suction Pressure: <i>0</i>	Pump Discharge pressure: <i>153</i>
Coolant temperature after 30 minutes running: <i>180</i>	
Stop time: <i>0254</i>	Stop hour meter: <i>46.7</i> Total time running: <i>30 min</i>
Comments: <i>Fuel Level Below Half needs Refueling</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: 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 checked="" 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 type="checkbox"/> N <input type="checkbox"/>	VALVE SHED - VALVED OUT DUE TO LEAK ON MAIN
2	SG Unit 2 B1-2	120	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	120	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	120	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	120	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	120	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	120	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	120	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	120	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	120	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	120	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	120	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	165	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	170	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	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	170	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	170	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	170	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	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	/	
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: 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: 183 183	
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).	
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: 9-15-18 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 <input type="checkbox"/>	
2	SG Unit 2 B1-2	123	OC	yes	YX N <input type="checkbox"/>	
3	Reheaters B1-3	125	OC	yes	YX N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	125	OC	yes	YX N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	120	OC	yes	YX N <input type="checkbox"/>	
6	North Steel Pro B1-6	120	OC	yes	YX N <input type="checkbox"/>	
7	HTF Pumps B1-7	125	OC	yes	YX N <input type="checkbox"/>	
8	HTF Heaters B1-8	120	OC	yes	YX N <input type="checkbox"/>	
9	South Steel Pro B1-9	125	OC	yes	YX N <input type="checkbox"/>	
10	Lube Oil B1-10	120	OC	yes	YX N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	120	OC	yes	YX N <input type="checkbox"/>	
12	Turbine Bearings B1-12	125	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	165	OC	Yes	YX N <input type="checkbox"/>	
2	Ullage Area B2-2	165	OC	Yes	YX N <input type="checkbox"/>	
3	Ullage Structure B2-11	165	OC	Yes	YX N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	165	OC	Yes	YX N <input type="checkbox"/>	
5	Overflow Tanks B2-9	163	OC	Yes	YX N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	163	OC	Yes	YX N <input type="checkbox"/>	
7	Rack 1 West B2-7	165	OC	Yes	YX N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	168	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	160	OC	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	165	OC	yes	YX N <input type="checkbox"/>	
2	Transformer Main	165	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	160	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	165	OC	yes	YX N <input type="checkbox"/>	
2	Offices B4-3	165	OC	yes	YX N <input type="checkbox"/>	
3	Electrical Room B4-4	165	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	168	0	YX N <input type="checkbox"/>	

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	Debrjs	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: 9/9/18
Operator: Rico T	<i>*To be completed each time unit is operated.</i>
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).	
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: 9-7-18

Operator: Shell

Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	130	OK	Yes	YX N	
2	SG Unit 2 B1-2	130	OK	Yes	YX N	
3	Reheaters B1-3	133	OK	Yes	YX N	
4	Rack 2 West HTF B1-4	130	OK	Yes	YX N	
5	Rack 2 East HTF B1-5	130	OK	Yes	YX N	
6	North Steel Pro B1-6	130	OK	Yes	YX N	
7	HTF Pumps B1-7	128	OK	Yes	YX N	
8	HTF Heaters B1-8	128	OK	Yes	YX N	
9	South Steel Pro B1-9	130	OK	Yes	YX N	
10	Lube Oil B1-10	130	OK	Yes	YX N	
11	Turbine Hose Stations B1-11	130	OK	Yes	YX N	
12	Turbine Bearings B1-12	133	OK	Yes	YX N	

Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	165	OK	Yes	YX N	
2	Ullage Area B2-2	165	OK	Yes	YX N	
3	Ullage Structure B2-11	165	OK	Yes	YX N	
4	Rack 1 Middle Area B2-5	168	OK	Yes	YX N	
5	Overflow Tanks B2-9	165	OK	Yes	YX N	
6	Rack 1 South Area B2-6	165	OK	Yes	YX N	
7	Rack 1 West B2-7	165	OK	Yes	YX N	
8	Rack 1 North Area B2-4	168	OK	Yes	YX N	
9	Over flow AFFF B2-8	165	OK	Yes	YX N	
10	Expansion Vessel AFFF B2-3	163	OK	Yes	YX N	

Valve Shed # 3 by Bldg 35 GE Electrical Bldg

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Transformer Aux	170	OK	Yes	YX N	
2	Transformer Main	170	OK	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	OK	Yes	YX N	

Valve Shed # 5 by Control Bldg 10

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Control Room B4-5	165	OK	Yes	YX N	
2	Offices B4-3	165	OK	Yes	YX N	
3	Electrical Room B4-4	165	OK	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	OK	
2	Bearing 3	YX N	OK	
3	Bearing 4	YX N	OK	
4	Bearing 5	YX N	OK	

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

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

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	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	YX 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).	
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: 8/31/18 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	157	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"/>	OIC	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OIC	
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	116.8	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			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			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			Shut
13	West side Power Block Valve Shed #1	OIC			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: 8-25-18
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 PB.	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: 00:00	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: 30t Temp out of Range High. 20 min Run.	
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: 8/24/18 Operator: Rico T

Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	175	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	180	o/c	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	145	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	140	o/c	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	145	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	155	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	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	170	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	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	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			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			
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 type="checkbox"/> N <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: 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).	
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: 8/17/18 Operator: MANN

Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	150	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	150	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	150	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	150	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	150	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	150	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	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	165	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	165	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	155	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	175	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	175	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	175	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	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 checked="" type="checkbox"/> N <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: 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: 131 131	
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 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).	
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: 8-11-18 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	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	180	✓ O/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	180	✓ 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	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	✓	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	✓	8-4	
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	

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 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: 0255 0255	
Pump Suction Pressure: 5	Pump Discharge pressure: 163
Stop time: 0305 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: 42.5	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		
2	Maintenance Shop Drive Way #8	O/C	YES	8/2/18	
3	West Side Power Block by VS-3 # 9	O/C	YES	8/2/18	
4	West Side Power Block by VS-1 # 10	O/C	YES	8/2/18	
5	West Side Cooling Tower by VS-4 # 11	O/C	YES	8/2/18	
6	West side Cooling Tower by VS-4 # 12	O/C	YES	8/2/18	
7	N.W. Corner Chemical Storage #1	O/C	YES	8/2/18	
8	N.E. Corner Chemical Storage # 2	O/C	YES	8/2/18	
9	East Side W.T. by Multimedia Filters # 3	O/C	YES	8/2/18	
10	East Side W.T. by Multimedia Filters # 5	O/C	YES	8/2/18	
11	North Side Bldg 10 # 6	O/C	YES	8/3	
12	Between MP-444's and Water Treat # 4	O/C	NO		
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"/>	

ABENGOA

Mojave Solar LLC

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 type="checkbox"/> N <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: 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).	
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)]	

ABENGOA

Manjave Solar LLC

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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: 166		
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).		
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: 7-22-18 Operator: Rico

Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	162	OIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	OIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	165	OIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	155	OIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	155	OIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	155	OIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	155	OIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	OIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	155	OIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	165	OIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	OIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	165	OIC	✓	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	OIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	165	OIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	165	OIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	OIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	OIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	OIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	OIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	165	OIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	165	OIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	155	OIC	✓	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	OIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	170	OIC	✓	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	OIC	✓	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	OIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	165	OIC	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	160	OIC	✓	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"/>	OIC	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OIC	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OIC	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OIC	

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"/>	OIC	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OIC	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OIC	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OIC	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	OIC	

Fire Pump House Deluge System

No.	System	PSI	OIC	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	OIC	NO	7-3	
2	Maintenance Shop Drive Way #8	OIC	NO	7-3	
3	West Side Power Block by VS-3 # 9	OIC	NO	7-9	
4	West Side Power Block by VS-1 # 10	OIC	NO	7-7	
5	West Side Cooling Tower by VS-4 # 11	OIC	NO	7-7	
6	West side Cooling Tower by VS-4 # 12	OIC	NO	7-7	
7	N.W. Corner Chemical Storage #1	OIC	NO	7-7	
8	N.E. Corner Chemical Storage # 2	OIC	NO	7-7	
9	East Side W.T. by Multimedia Filters # 3	OIC	NO	7-7	
10	East Side W.T. by Multimedia Filters # 5	OIC	NO	7-7	
11	North Side Bldg 10 # 6	OIC	NO	7-7	
12	Between MP-444's and Water Treat # 4	OIC	NO	7-7	
13	West side Power Block Valve Shed #1	OIC	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	<input checked="" type="checkbox"/>		
Closed	<input type="checkbox"/>		
Engine		Comments	
Start Time:	<u>2025</u>		
Stop Time:	<u>2040</u>		
Total Run Time:	<u>15 Minutes</u>		
Starting Hour Meter Reading	<u>188.7</u>		
Monthly Fuel Consumption(gal)			
Oil Level	<u>Normal</u>		
Coolant Level	<u>Normal</u>	Coolant Temp. @ Start <u>63</u> *c	Finish= <u>76</u> *c
Belt Condition	<u>Good</u>		
Oil Pressure		Start = <u>7.7</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>4.17 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	<input type="checkbox"/> 1/4	<input type="checkbox"/> 1/2	<input type="checkbox"/> 3/4 <input type="checkbox"/> 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 GE 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	0	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 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"/> 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. ^{leg}		
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).		
<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: 7/6/18
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: 155 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
Battery Condition: good	Start time: 8:36 PM
Starting hour meter: 40.8 41.0	Oil Pressure finish: 46 psi
Oil pressure start: 66	Pump Discharge pressure: 150
Pump Suction Pressure: 20	
Coolant temperature after 30 minutes running: 189°F	
Stop time: 9:06 PM	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).	
<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

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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 <input type="checkbox"/>	
2	SG Unit 2 B1-2	158	O/C	Yes	YX N <input type="checkbox"/>	
3	Reheaters B1-3	160	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	155	O/C	Yes	YX N <input type="checkbox"/>	
6	North Steel Pro B1-6	158	O/C	Yes	YX N <input type="checkbox"/>	
7	HTF Pumps B1-7	158	O/C	Yes	YX N <input type="checkbox"/>	
8	HTF Heaters B1-8	158	O/C	Yes	YX N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	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	160	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	160	O/C	Yes	YX N <input type="checkbox"/>	
3	Ullage Structure B2-11	160	O/C	Yes	YX N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	O/C	Yes	YX N <input type="checkbox"/>	
5	Overflow Tanks B2-9	158	O/C	Yes	YX N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	158	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	160	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	155	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	180	O/C	Yes	YX N <input type="checkbox"/>	
2	Transformer Main	180	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	158	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	0	YX N <input type="checkbox"/>	

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	Y <input type="checkbox"/> N <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: 7-1-18
Operator: <i>Shel</i>	<i>*To be completed each time unit is operated.</i>
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	165	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	165	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	165	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	165	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	165	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	170	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	175	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	165	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	166	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	165	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: 76	Oil Pressure finish: 45	
Pump Suction Pressure: 0	Pump Discharge pressure: 155	
Coolant temperature after 30 minutes running: 198		
Stop time: 0153	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).		
<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: 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	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	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	
Battery volt Crank 1: 26	Battery volt Crank 2: 26	Monthly Fuel Consumption:
Starting hour meter: 39.7	Battery Condition: good	Start time: 1346
Oil pressure start: 71	Start up pressure: 135	
Pump Suction Pressure: 0	Oil Pressure finish: 45	
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>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: 6/15/18 Operator: Mawel 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	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		
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"/>	

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 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>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: 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	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	155	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	155	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	155	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	155	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	175	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	---	
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 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 type="checkbox"/>	

Fire Pump Weekly Test Log

General Information		
Plant: Alpha <input type="checkbox"/>	Beta <input checked="" type="checkbox"/>	Date: 5-27-18
Operator: <i>Shells</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>155</i>		
Discharge Pressure: <i>164</i>		
Pump Suction Pressure: <i>NO PG,</i> Pump Discharge pressure: <i>164</i>		
Comments: <i>Set.</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>155</i>		
Start time: <i>21:16</i>		
Pump Suction Pressure: <i>12 PSI</i> Pump Discharge pressure: <i>150</i>		
Stop time: <i>21:26</i> Total time running <i>10 min</i>		
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"/> <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>37.7</i> Start time: <i>21:29</i> Start up pressure:		
Oil pressure start: <i>64</i> Oil Pressure finish:		
Pump Suction Pressure: <i>18 PSI</i> Pump Discharge pressure: <i>150</i>		
Coolant temperature after 30 minutes running:		
Stop time: <i>21:44</i> Stop hour meter: <i>37.9</i> Total time running: <i>15 min</i>		
Comments: <i>Alarm change, Air Filter, Temp High. only ran for 15 min.</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: 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	✓	✓	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	160	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	165	✓	✓	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	158	✓	✓	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	163	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	170	✓	✓	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	160	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	170	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	165	✓	✓	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	163	✓	✓	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	160	✓	✓	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	160	✓	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	163	✓	✓	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	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	OK	NO	5-5-18	
2	Maintenance Shop Drive Way #8	✓	NO	5-5-18	
3	West Side Power Block by VS-3 # 9	✓	NO	5-5-18	
4	West Side Power Block by VS-1 # 10	✓	NO	5-5-18	
5	West Side Cooling Tower by VS-4 # 11	✓	NO	5-5-16	
6	West side Cooling Tower by VS-4 # 12	✓	NO	5-5-18	
7	N.W. Corner Chemical Storage #1	✓	NO	5-5-18	
8	N.E. Corner Chemical Storage # 2	✓	NO	5-5-18	
9	East Side W.T. by Multimedia Filters # 3	✓	NO	5-5-18	
10	East Side W.T. by Multimedia Filters # 5	✓	NO	5-5-18	
11	North Side Bldg 10 # 6	✓	NO	5-5-18	
12	Between MP-444's and Water Treat # 4	OK	NO	5-5-18	
13	West side Power Block Valve Shed #1	✓	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	✓ V/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	✓ V/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	185	✓ V/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	✓ V/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	✓ V/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	✓ V/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	160	✓ V/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	✓ V/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	168	✓ V/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	160	✓ V/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	✓ V/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	165	✓ V/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	✓ V/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	180	✓ V/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	178	✓ V/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	✓ V/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	✓ V/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	✓ V/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	160	✓ V/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	160	✓ V/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	165	✓ V/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	165	✓ V/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	✓ V/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	160	✓ V/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	✓ V/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	✓ V/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	165	✓ V/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	165	✓ V/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"/>	✓ V/C	
2	Bearing 3	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ V/C	
3	Bearing 4	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ V/C	
4	Bearing 5	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ V/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"/>	✓ V/C	
2	MP-200A	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ V/C	
3	MP-200B	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ V/C	
4	MP-200C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ V/C	
5	MP-200D	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	✓ V/C	

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	✓ V/C			
3	West Side Power Block by VS-3 # 9	✓ V/C			
4	West Side Power Block by VS-1 # 10	O/C			
5	West Side Cooling Tower by VS-4 # 11	✓ V/C			
6	West side Cooling Tower by VS-4 # 12	✓ V/C			
7	N.W. Corner Chemical Storage #1	✓ V/C			
8	N.E. Corner Chemical Storage # 2	✓ V/C			
9	East Side W.T. by Multimedia Filters # 3	✓ V/C			
10	East Side W.T. by Multimedia Filters # 5	✓ V/C			
11	North Side Bldg 10 # 6	✓ V/C			
12	Between MP-444's and Water Treat # 4	O/C			
13	West side Power Block Valve Shed #1	✓ V/C			

To Be Cycled First Saturday of Every Month

No.	System	Debrls	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 Condition: good	
Battery volt Crank 2: 27		Start time: 8:45 pm	
Starting hour meter: 37.1		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	Battery Condition: good	
Starting hour meter: 36.7	Start time: 6:25 pm	Start up pressure: 150
Oil pressure start: 64 psi	Oil Pressure finish: 45 psi	
Pump Suction Pressure: 20	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).		
<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: 5-5-18 Operator: L. Sprick

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	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: 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 MINUS
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: 26.7	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 MINUS
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 TOURBEUIS

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"/>	LOTO B TRAIN
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	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	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	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	175	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	Y		
2	Maintenance Shop Drive Way #8	O/C	Y		
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 type="checkbox"/>	

PIV #13 BY VS #1 OPEN LOCKED

Automated Fire Systems Inspection Checklist

Plant: ALPHA

BETA:

Date: 4/22/18

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	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	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	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	165	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	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	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	280	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	0	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	OUT SERVICE FOR OUTAGE (Fire Watch)

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	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	175	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	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 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 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, TARD OPEN. DID NOT WANT TO TRIP 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 MIN	
Comments: FUEL AT 50% LEVEL	
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: 4-14-18	
Operator: PHIL TOURBELLIS	*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: 61	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 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: 4-9-18 Operator: Shell

Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	163	O/C	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	
3	Reheaters B1-3	165	O/C	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	160	O/C	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	160	O/C	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	
6	North Steel Pro B1-6	160	O/C	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	
7	HTF Pumps B1-7	160	O/C	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	
8	HTF Heaters B1-8	160	O/C	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	
9	South Steel Pro B1-9	161	O/C	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	
10	Lube Oil B1-10	160	O/C	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	O/C	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	
12	Turbine Bearings B1-12	165	O/C	Yes	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	160	O/C	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	
2	Ullage Area B2-2	160	O/C	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	
3	Ullage Structure B2-11	160	O/C	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	O/C	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	
5	Overflow Tanks B2-9	160	O/C	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	
6	Rack 1 South Area B2-6	160	O/C	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	
7	Rack 1 West B2-7	160	O/C	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	
8	Rack 1 North Area B2-4	165	O/C	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	
9	Over flow AFFF B2-8	160	O/C	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	O/C	Yes	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	163	O/C	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	
2	Transformer Main	160	O/C	Yes	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	160	O/C	Yes	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	163	O/C	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	
2	Offices B4-3	163	O/C	Yes	Yes <input type="checkbox"/> No <input type="checkbox"/>	
3	Electrical Room B4-4	165	O/C	Yes	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 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	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 # 8	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 type="checkbox"/> No <input checked="" type="checkbox"/>	

PSI's 165/160/160 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	✓	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	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	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	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			
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	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	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	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	160	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	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	160	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	165	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	165	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	Vlv. Pos.	Signage	Locked	Comments
1	Transformer Aux	180	O/C	✓	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	180	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	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 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	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	✓	4/6	
2	Maintenance Shop Drive Way #8	O/C	✓	4/6	
3	West Side Power Block by VS-3 # 9	O/C	✓	4/6	
4	West Side Power Block by VS-1 # 10	O/C	✓	4/6	
5	West Side Cooling Tower by VS-4 # 11	O/C	✓	4/6	
6	West side Cooling Tower by VS-4 # 12	O/C	✓	4/6	
7	N.W. Corner Chemical Storage #1	O/C	✓	4/6	
8	N.E. Corner Chemical Storage # 2	O/C	✓	4/6	
9	East Side W.T. by Multimedia Filters # 3	O/C	✓	4/6	
10	East Side W.T. by Multimedia Filters # 5	O/C	✓	4/6	
11	North Side Bldg 10 # 6	O/C	✓	4/6	
12	Between MP-444's and Water Treat # 4	O/C	✓	4/6	

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: 4/1/18	
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).		
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: 4-1-18 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 <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	160	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	163	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	160	O/C	yes	YX N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	160	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	160	O/C	yes	YX N <input type="checkbox"/>	
7	Rack 1 West B2-7	162	O/C	yes	YX N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	163	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	180	O/C	yes	YX N <input type="checkbox"/>	
2	Transformer Main	180	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	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 <input type="checkbox"/>	

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: <i>Shell</i>		<i>*To be completed each time unit is operated.</i>
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: <i>N/A NO Gauge</i> Pump Discharge pressure:		
Comments: <i>In Auto</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: 158		
Start time: 23:22		
Pump Suction Pressure: 15 PSI Pump Discharge pressure: 165		
Stop time: 23:32 Total time running 10 min		
Comments: <i>In Auto</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: 26.3 Battery volt Crank 2: 26.5		Battery Condition: <i>Good</i>
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: <i>In Auto</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: 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	<i>*To be completed each time unit is operated.</i>
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)]	

04

Automated Fire Systems Inspection Checklist

Plant: ALPHA

BETA:

Date: 3.17.18

Operator: R. T.

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	165	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"/>	

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ABENGOA

Mojave Solar LLC

Fire Pump Weekly Test Log

General Information	
Plant: Alpha <input type="checkbox"/> Beta <input checked="" type="checkbox"/>	Date: 3/10/18
Operator: Rico	<i>*To be completed each time unit is operated.</i>
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: 13.9
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	165	O/C	Yes	YX N	
2	SG Unit 2 B1-2	160	O/C	Yes	YX N	
3	Reheaters B1-3	165	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	165	O/C	Yes	YX N	

Valve Shed # 2 by Overflow

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	Expansion Vessels B2-1	155	O/C	Yes	YX N	
2	Ullage Area B2-2	160	O/C	Yes	YX N	
3	Ullage Structure B2-11	158	O/C	Yes	YX N	
4	Rack 1 Middle Area B2-5	158	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	155	O/C	Yes	YX N	
10	Expansion Vessel AFFF B2-3	155	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	170	O/C	Yes	YX N	
2	Transformer Main	173	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	155	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	165	O/C	Yes	YX N	
2	Offices B4-3	165	O/C	Yes	YX N	
3	Electrical Room B4-4	165	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	170	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 # 6	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 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: 15 LBS	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).	
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: 5-12-18 Operator: Catch Sowards

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	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	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	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	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	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	180	✓ 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	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	150	✓ 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	155	✓ 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	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	5-2-18	
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	3/2/18	
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).	
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: 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 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 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 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 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 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	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"/>	

ABENGOA

Mojave Solar LLC

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).	
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: 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	145	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	X	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	165	O/C	X	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: <i>MANNY</i>	<i>*To be completed each time unit is operated.</i>
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: 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: 10 psi → 166 psi	
Start time: 19:51	
Pump Suction Pressure: 15 psi	Pump Discharge pressure: 155 psi
Stop time: 20:01	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	Battery volt Crank 2: 27V
Battery Condition: Good	Start time: 20:02
Starting hour meter: 31.1	Oil Pressure finish: 28 psi
Oil pressure start: 1 psi	Pump Discharge pressure: 150 psi
Pump Suction Pressure: 20 psi	
Coolant temperature after 30 minutes running: 192°F	
Stop time: 20:32	Stop hour meter: 31.6
Total time running: 30 MINS	
Comments: LOW OIL PRESS ALARM @ END HAD TO TURN SYSTEM OFF & ON TO REMOVE	
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 volt Crank 2: 27
Battery Condition: <input checked="" type="checkbox"/>	Start time: 6:50 PM
Starting hour meter: 30.7	Oil Pressure finish:
Oil pressure start: 63	
Pump Suction Pressure: 150 20	Pump Discharge pressure: 150
Coolant temperature after 30 minutes running: 189	
Stop time: 7:25 PM	Stop hour meter: 31.1
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	163	O/C	YES	YX N	
3	Ullage Structure B2-11	167	O/C	YES	YX N	
4	Rack 1 Middle Area B2-5	163	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 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/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 type="checkbox"/> No <input checked="" type="checkbox"/>	NO Debris

PIV-13 Not on this list its open, Not Cycled. Last Cycle 12-2-17 ?

ABENGOA

Mojave Solar LLC

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).	
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: 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).	
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: 1-18-18 Operator: Rico Thompson

Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1	167	✓/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	✓/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	163	✓/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	165	✓/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	165	✓/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	165	✓/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	165	✓/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	165	✓/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	165	✓/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	165	✓/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	165	✓/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	170	✓/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	✓/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	167	✓/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	170	✓/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	165	✓/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	165	✓/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	170	✓/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	167	✓/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	170	✓/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	170	✓/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	165	✓/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	✓/C	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	170	✓/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"/>	✓/C	
2	Bearing 3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓/C	
3	Bearing 4	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓/C	
4	Bearing 5	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓/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"/>	✓/C	
2	MP-200A	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓/C	
3	MP-200B	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓/C	
4	MP-200C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓/C	
5	MP-200D	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	✓/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	✓/C	no		
3	West Side Power Block by VS-3 # 9	✓/C	no		
4	West Side Power Block by VS-1 # 10	✓/C	no		
5	West Side Cooling Tower by VS-4 # 11	✓/C	no		
6	West side Cooling Tower by VS-4 # 12	✓/C	no		
7	N.W. Corner Chemical Storage #1	✓/C	no		
8	N.E. Corner Chemical Storage # 2	✓/C	no		
9	East Side W.T. by Multimedia Filters # 3	✓/C	no		
10	East Side W.T. by Multimedia Filters # 5	✓/C	no		
11	North Side Bldg 10 # 6	✓/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>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: 1-13-18 Operator: Rico

Valve Shed # 1 by Condenser

No.	System	PSI	Viv. Pos.	Signage	Locked	Comments
1	SG Unit 1 B1-1		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	165	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	161	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	165	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	165	OK	✓	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	165	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	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	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: 189	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>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: 1-6-18 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 checked="" type="checkbox"/>		
2	Maintenance Shop Drive Way #8	O/C	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		
3	West Side Power Block by VS-3 # 9	O/C	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		
4	West Side Power Block by VS-1 # 10	O/C	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		
5	West Side Cooling Tower by VS-4 # 11	O/C	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		
6	West side Cooling Tower by VS-4 # 12	O/C	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		
7	N.W. Corner Chemical Storage #1	O/C	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		
8	N.E. Corner Chemical Storage # 2	O/C	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		
9	East Side W.T. by Multimedia Filters # 3	O/C	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		
10	East Side W.T. by Multimedia Filters # 5	O/C	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		
11	North Side Bldg 10 # 6	O/C	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		
12	Between MP-444's and Water Treat # 4	O/C	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		
13	West Side Power Block by VS-1	O/C	Y <input type="checkbox"/> N <input checked="" 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 <input type="checkbox"/> N <input type="checkbox"/>	
2	SG Unit 2 B1-2	160	O/C	yes	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Reheaters B1-3	165	O/C	yes	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 2 West HTF B1-4	163	O/C	yes	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Rack 2 East HTF B1-5	163	O/C	yes	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	North Steel Pro B1-6	160	O/C	yes	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	HTF Pumps B1-7	162	O/C	yes	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	HTF Heaters B1-8	160	O/C	yes	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	South Steel Pro B1-9	165	O/C	yes	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Lube Oil B1-10	165	O/C	yes	Y <input type="checkbox"/> N <input type="checkbox"/>	
11	Turbine Hose Stations B1-11	160	O/C	yes	Y <input type="checkbox"/> N <input type="checkbox"/>	
12	Turbine Bearings B1-12	165	O/C	yes	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	yes	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Ullage Area B2-2	165	O/C	yes	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Ullage Structure B2-11	165	O/C	yes	Y <input type="checkbox"/> N <input type="checkbox"/>	
4	Rack 1 Middle Area B2-5	163	O/C	yes	Y <input type="checkbox"/> N <input type="checkbox"/>	
5	Overflow Tanks B2-9	162	O/C	yes	Y <input type="checkbox"/> N <input type="checkbox"/>	
6	Rack 1 South Area B2-6	163	O/C	yes	Y <input type="checkbox"/> N <input type="checkbox"/>	
7	Rack 1 West B2-7	163	O/C	yes	Y <input type="checkbox"/> N <input type="checkbox"/>	
8	Rack 1 North Area B2-4	165	O/C	yes	Y <input type="checkbox"/> N <input type="checkbox"/>	
9	Over flow AFFF B2-8	163	O/C	yes	Y <input type="checkbox"/> N <input type="checkbox"/>	
10	Expansion Vessel AFFF B2-3	160	O/C	yes	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	yes	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Transformer Main	165	O/C	yes	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	163	O/C	yes	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	162	O/C	yes	Y <input type="checkbox"/> N <input type="checkbox"/>	
2	Offices B4-3	162	O/C	yes	Y <input type="checkbox"/> N <input type="checkbox"/>	
3	Electrical Room B4-4	162	O/C	yes	Y <input type="checkbox"/> N <input type="checkbox"/>	

Turbine Spnkler 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	168	yes	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	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	Extremely Hard to operate
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 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	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	4.16		
Generator Amps	0000		
Generator "KVA"	0338		
Reason For Use		Comments	
Testing	✓	weekly	
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.

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 TOURGELIS**

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.

ABENGOA

Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: **ALPHA** Date: **12-2-18**

Operator: **PHIL TOURBENS**

Main Generator Breaker		Comments	
Open	—		
Closed			
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%	
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 Case 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	<i>1/4</i> <i>1/2</i> <i>3/4</i> <i>F</i>	<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: *Emin Mants*

Main Generator Breaker		Comments					
Open	✓	<i>for test</i>					
Closed	✓	<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	✓						
Emergency	<i>-</i>						
Maintenance	<i>-</i>						
Generator		Comments					
Fuel Delivered	<i>X</i>						
Fuel Level	<table border="1"> <tr> <td>1/4</td> <td>1/2</td> <td>3/4</td> <td>F</td> </tr> </table>	1/4	1/2	3/4	F	<i>87%</i>	
1/4	1/2	3/4	F				
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
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Open		
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Closed		
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Engine		Comments
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Start Time:	<u>6:12 pm</u>	
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Stop Time:	<u>6:22 pm</u>	
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Total Run Time:	<u>10 min</u>	
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Starting Hour Meter Reading	<u>191.6</u>	
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Monthly Fuel Consumption(gal)		
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Oil Level	<input checked="" type="checkbox"/>	
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Coolant Level	<input checked="" type="checkbox"/>	Coolant Temp. @ Start <u>58</u> *c Finish= <u>75</u> *c
---------------	-------------------------------------	--

Belt Condition	<input checked="" type="checkbox"/>	
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Oil Pressure	<input checked="" type="checkbox"/>	Start = <u>8.1</u> bar Finish= <u>6.7</u> bar
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Battery Condition	<input checked="" type="checkbox"/>	
-------------------	-------------------------------------	--

Battery Voltage	<u>26.9</u>	
-----------------	-------------	--

Engine RPMs	<u>1800</u>	
-------------	-------------	--

Generator		Comments
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Generator Volts	<u>4.16</u>	
-----------------	-------------	--

Generator Amps	<u>N/A</u>	
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Generator "KVA"	<u>4.23</u>	
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Reason For Use		Comments
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Testing	<input checked="" type="checkbox"/>	
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Emergency		
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Maintenance		
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Generator		Comments
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Fuel Delivered		
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Fuel Level	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 10%;">1/4</td> <td style="width: 10%;">1/2</td> <td style="width: 10%;">3/4</td> <td style="width: 10%;">F</td> </tr> </table>	1/4	1/2	3/4	F	<u>88%</u>
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: Alpha Date: 11-3-18

Operator: Michael Hinton

Main Generator Breaker **Comments**

Open

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 887.2

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:	<u>1910</u>	
Stop Time:	<u>1920</u>	
Total Run Time:	<u>10 mins</u>	
Starting Hour Meter Reading	<u>191.3</u>	
Monthly Fuel Consumption(gal)		

Oil Level	<u>Normal</u>	
Coolant Level	<u>Normal</u>	Coolant Temp. @ Start <u>58</u> *c Finish= <u>75</u> *c
Belt Condition	<u>Normal</u>	
Oil Pressure		Start = <u>7.9</u> bar Finish= <u>6.6</u> bar
Battery Condition	<u>Normal</u>	
Battery Voltage	<u>26.4</u>	
Engine RPMs	<u>1800</u>	

Generator		Comments
Generator Volts	<u>2263</u>	
Generator Amps	<u>352</u>	
Generator "KVA"	<u>4.17</u>	

Reason For Use		Comments
Testing	✓	
Emergency		
Maintenance		

Generator		Comments
Fuel Delivered	<u>No</u>	
Fuel Level	<u>88%</u>	

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: 10/18/18

Operator: Rico

Main Generator Breaker		Comments
Open		
Closed		

Engine		Comments
Start Time:	<u>6:50 pm</u>	
Stop Time:	<u>7:00 pm</u>	
Total Run Time:	<u>10 min</u>	
Starting Hour Meter Reading	<u>1911</u>	
Monthly Fuel Consumption(gal)		
Oil Level	<input checked="" type="checkbox"/>	
Coolant Level	<input checked="" type="checkbox"/>	Coolant Temp. @ Start <u>63</u> *c Finish= <u>75</u> *c
Belt Condition	<input checked="" type="checkbox"/>	
Oil Pressure		Start = <u>7.7</u> bar Finish= <u>6.6</u> bar
Battery Condition	<input checked="" type="checkbox"/>	
Battery Voltage	<u>27.3</u>	
Engine RPMs	<u>1800</u>	

Generator		Comments
Generator Volts	<u>4.17</u>	
Generator Amps	<u>0336</u>	
Generator "KVA"	<u>2136</u>	

Reason For Use		Comments
Testing	<input checked="" type="checkbox"/>	
Emergency		
Maintenance		

Generator		Comments
Fuel Delivered		
Fuel Level	<u>1/4</u> <u>1/2</u> <u>3/4</u> <u>F</u>	
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: *Edwin Monto*

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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Note: 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	

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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: **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)		

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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: *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	<table border="1"> <tr> <td>1/4</td> <td>1/2</td> <td>3/4</td> <td>F</td> </tr> </table>	1/4	1/2	3/4	F	<i>70%</i>
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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∴ 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: Collin 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	<input type="checkbox"/> 1/4 <input type="checkbox"/> 1/2 <input checked="" type="checkbox"/> 3/4 <input type="checkbox"/> 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: 9/9/18

Operator: Collin Andersson

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)		

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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: 9-1-18

Operator: Michael Hinton

Main Generator Breaker		Comments	
Open	✓		
Closed			
Engine		Comments	
Start Time:	<u>2200</u>		
Stop Time:	<u>2210</u>		
Total Run Time:	<u>10 mins</u>		
Starting Hour Meter Reading	<u>189.9</u>		
Monthly Fuel Consumption(gal)			
Oil Level	<u>Normal</u>		
Coolant Level	<u>Normal</u>	Coolant Temp. @ Start <u>60</u> *c	Finish= <u>67.6</u> *c
Belt Condition	<u>Normal</u>		
Oil Pressure		Start= <u>6.9</u> bar	Finish= <u>6.6</u> bar
Battery Condition	<u>Normal</u>		
Battery Voltage	<u>27.2</u>		
Idle RPMs	<u>1800</u>		
Generator		Comments	
Generator Volts	<u>2169</u>		
Generator Amps	<u>345</u>		
Generator "KVA"	<u>4.16</u>		
Reason For Use		Comments	
Testing	✓		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered	<u>No</u>		
Fuel Level	<u>70%</u>		
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: 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: 189.7 189.9 end

Monthly Fuel Consumption(gal)

Oil Level: Normal

Coolant Level: Normal Coolant Temp. @ Start 59 *c Finish = 76 *c

Belt Condition: Normal

Oil Pressure: Start = 7.8 bar Finish = 6.6 bar

Battery Condition: Normal

Battery Voltage: 26.7

Line 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
				<u>70%</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 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=75 *c
Belt Condition	Good		
Oil Pressure		Start = 0 bar	Finish=6.7bar
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)		

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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 plant*

Date: *8-12-18*

Operator: *Erwin Morales*

Main Generator Breaker		Comments	
Open	✓	<i>for testing</i>	
Closed	✓	<i>after test</i>	
Engine		Comments	
Start Time:	<i>2349</i>		
Stop Time:	<i>2359</i>		
Total Run Time:	<i>10 min</i>		
Starting Hour Meter Reading	<i>189.4h</i>		
Monthly Fuel Consumption(gal)			
Oil Level	<i>Good</i>		
Coolant Level	<i>Good</i>	Coolant Temp. @ Start	<i>62 *c</i> Finish= <i>76 *c</i>
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>1800rpm</i>		
Generator		Comments	
Generator Volts	<i>4.17</i>		
Generator Amps	<i>—</i>		
Generator "KVA"	<i>—</i>		
Reason For Use		Comments	
Testing	✓		
Emergency	<i>—</i>		
Maintenance	<i>—</i>		
Generator		Comments	
Fuel Delivered	<i>—</i>		
Fuel Level	<i>70%</i>		
Sulfur Concentrations	<i>—</i>		
<0.0015% (15ppm)	<i>—</i>		

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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: *Calb Swards*

Main Generator Breaker		Comments					
Open	✓						
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	✓						
Emergency							
Maintenance							
Generator		Comments					
Fuel Delivered	<i>NA</i>						
Fuel Level	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 25px;">1/4</td> <td style="width: 25px;">1/2</td> <td style="width: 25px;">3/4</td> <td style="width: 25px;">F</td> </tr> </table>	1/4	1/2	3/4	F	<i>7/1070</i>	
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: 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:	10mins		
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)			

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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: *8-23-18*

Operator: *Caleb Sowards*

Main Generator Breaker		Comments	
Open	<input checked="" type="checkbox"/>		
Closed	<input type="checkbox"/>		
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>		
Idle 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	<input checked="" type="checkbox"/>		
Emergency	<input type="checkbox"/>		
Maintenance	<input type="checkbox"/>		
Generator		Comments	
Fuel Delivered	<i>NO</i>		
Fuel Level	<i>70%</i>		
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: 7/8/18

Operator: Collin Anderson

Main Generator Breaker		Comments	
Open	✓		
Closed			
Engine		Comments	
Start Time:	1740		
Stop Time:	1755		
Total Run Time:	15 Min		
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)		

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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: *6-30-18*

Operator: *Caleb*

Main Generator Breaker		Comments					
Open	✓						
Closed							
Engine		Comments					
Start Time:	<i>0332</i>						
Stop Time:	<i>0342</i>						
Total Run Time:	<i>10 min</i>						
Starting Hour Meter Reading	<i>188.2</i>						
Monthly Fuel Consumption(gal)							
Oil Level	<i>good</i>						
Coolant Level	<i>good</i>	Coolant Temp. @ Start <i>60</i> *c	Finish = <i>7</i> *c				
Belt Condition	<i>good</i>						
Oil Pressure		Start = <i>7.5</i> bar	Finish = <i>6.7</i> bar				
Battery Condition	<i>good</i>						
Battery Voltage	<i>26.2</i>						
Engine RPMs	<i>1500</i>						
Generator		Comments					
Generator Volts	<i>417</i>						
Generator Amps							
Generator "KVA"							
Reason For Use		Comments					
Testing	✓						
Emergency							
Maintenance							
Generator		Comments					
Fuel Delivered							
Fuel Level	<table border="1" style="display: inline-table;"> <tr> <td>1/4</td> <td>1/2</td> <td>3/4</td> <td>F</td> </tr> </table>	1/4	1/2	3/4	F	<i>71%</i>	
1/4	1/2	3/4	F				
Sulfur Concentrations							
<0.0015% (15ppm)							

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①: 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	<input type="checkbox"/> 1/4 <input type="checkbox"/> 1/2 <input type="checkbox"/> 3/4 <input type="checkbox"/> 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 plant

Date: 6-17-18

Operator: Edwin Morales

Main Generator Breaker		Comments	
Open	✓	for test	
Closed	✓	AS per 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.

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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: *Edwin Nates*

Main Generator Breaker		Comments	
Open	<input checked="" type="checkbox"/>	<i>for test</i>	
Closed	<input checked="" type="checkbox"/>	<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 °c</i> Finish= <i>75 °c</i>
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	<input checked="" type="checkbox"/>		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered			
Fuel Level	<input type="checkbox"/> 1/4 <input type="checkbox"/> 1/2 <input type="checkbox"/> 3/4 <input type="checkbox"/> 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: <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	<input type="checkbox"/> 1/4 <input type="checkbox"/> 1/2 <input type="checkbox"/> 3/4 <input type="checkbox"/> F	<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</u>	<u>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 = 7.4 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	1/4 1/2 3/4 F	<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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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:	<u>1910</u>	
Stop Time:	<u>1920</u>	
Total Run Time:	<u>10 mins</u>	
Starting Hour Meter Reading	<u>187.0</u>	
Monthly Fuel Consumption(gal)		
Oil Level	<u>Normal</u>	
Coolant Level		Coolant Temp. @ Start <u>58 °c</u> Finish= <u>75°c</u>
Belt Condition	<u>Normal</u>	
Oil Pressure		Start = <u>7.3 bar</u> Finish= <u>6.5bar</u>
Battery Condition	<u>Normal</u>	
Battery Voltage	<u>27.3</u>	
Engine RPMs	<u>1800</u>	
Generator		Comments
Generator Volts	<u>4.16 N/A</u>	
Generator Amps	↓	
Generator "KVA"	↓	
Reason For Use		Comments
Testing	✓	
Emergency		
Maintenance		
Generator		Comments
Fuel Delivered	<u>No</u>	
Fuel Level	1/4 1/2 3/4 F	<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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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)		

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: *5/5/18*

Operator: *Colin Anderson*

Main Generator Breaker		Comments	
Open	✓		
Closed			
Engine		Comments	
Start Time:	<i>1914</i>		
Stop Time:	<i>1929</i>		
Total Run Time:	<i>15 minutes</i>		
Starting Hour Meter Reading	<i>186.4</i>		
Monthly Fuel Consumption(gal)			
Oil Level	<i>Normal</i>		
Coolant Level	<i>Normal</i>	Coolant Temp. @ Start <i>60</i> °c	Finish= <i>76</i> °c
Belt Condition	<i>Good</i>		
Oil Pressure		Start = <i>7.1</i> bar	Finish= <i>6.5</i> bar
Battery Condition	<i>Good</i>		
Battery Voltage	<i>27.4</i>		
Engine RPMs	<i>1800</i>		
Generator		Comments	
Generator Volts	<i>4.17 kV</i>		
Generator Amps			
Generator "KVA"			
Reason For Use		Comments	
Testing	✓		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered			
Fuel Level	1/4 1/2 3/4 F	<i>71%</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: **4-28-18**

Operator: **PHIL TOURBOLI**

Main Generator Breaker		Comments	
Open	<input checked="" type="checkbox"/>		
Closed	<input type="checkbox"/>		
Engine		Comments	
Start Time:	0324		
Stop Time:	0334		
Total Run Time:	10 MIN		
Starting Hour Meter Reading	186.2		
Monthly Fuel Consumption(gal)	N/A		
Oil Level	GOOD		
Coolant Level	GOOD	Coolant Temp. @ Start 63 *c	Finish= 75 *c
Belt Condition	GOOD		
Oil Pressure	GOOD	Start = 8.1 bar	Finish= 6.4 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	<input checked="" type="checkbox"/>	WEEKLY	
Emergency	<input type="checkbox"/>		
Maintenance	<input type="checkbox"/>		
Generator		Comments	
Fuel Delivered	—		
Fuel Level	<input checked="" type="checkbox"/> 1/4 <input type="checkbox"/> 1/2 <input type="checkbox"/> 3/4 <input type="checkbox"/> F	72%	
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.

⊙: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

Emergency Diesel Generator Weekly Test Log

Plant: *Alpha*

Date: *4-22-18*

Operator: *Caleb Sowards*

Main Generator Breaker		Comments	
Open	<i>NA</i>		
Closed	<input checked="" type="checkbox"/>	<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*c</i> Finish= <i>78*c</i>
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	<input checked="" type="checkbox"/>		
Generator		Comments	
Fuel Delivered	<input checked="" type="checkbox"/>		
Fuel Level	1/4 1/2 3/4 F	<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	<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.

outage ...

ABENGOA

Operator(s): Mike Hinton / Collin Andersen

NORTH AMERICA

Date: 4/17, 18, 19/18

Emergency Diesel Generator Bi-Hourly Readings

Alpha Plant

4-17

4-18

4-19

Time Of Reading	Oil Pressure	Gen. Voltage	Engine RPM	Coolant Temp.	Fuel Level	Hour Meter	Oil Temp	Gen. KWH
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
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
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~~ 2113.1

4-22-18 | 1046.5

gallons

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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 1800	MA	2230	MA	0200	MA
1830 1900	MA MA	2300	MA	0230	MA
1930 2000	MA MA	2330	MA	0300	MA
2030	MA	2400	MA	0330	MA
2100	MA	0030	MA	0400	MA
2130	MA	0100	MA	0430	MA
2200	MA	0130	MA	0500 0530	MA MA

Problems noted during fire watch:

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

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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

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SUPPRESSION SYSTEM FIRE WATCH LOG

Assigned Area: Transformer Yard Date: 4-18-18

Fire-Watcher: Collin Anderson 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	CA
						1700	CA

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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 ^{MH} ~~06~~ 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 1830	MH MH		0030	MH		0330	MH
1900 1930	MH MH		0100	MH		0400	MH
2000 2030	MH MH		0130	MH		0430	MH
2100 2130	MH MH		0200	MH		0500	MH
2200 2230	MH MH		0200	MH		0530	MH
2300 2330	MH MH		0230	MH		0600	MH
2400	MH		0300	MH			

Problems noted during fire watch:

Emergency Diesel Generator Weekly Test Log

Plant: *Alpha*

Date: *4-14-18*

Operator: *Efrain Montes*

Main Generator Breaker		Comments					
Open	<input checked="" type="checkbox"/>	<i>open for test</i>					
Closed	<input checked="" type="checkbox"/>	<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 *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>1500</i>						
Generator		Comments					
Generator Volts	<i>4.16kv</i>						
Generator Amps	<i>—</i>						
Generator "KVA"	<i>—</i>						
Reason For Use		Comments					
Testing	<input checked="" type="checkbox"/>						
Emergency	<input type="checkbox"/>						
Maintenance	<input type="checkbox"/>						
Generator		Comments					
Fuel Delivered	<i>—</i>						
Fuel Level	<table border="1"> <tr> <td>1/4</td> <td>1/2</td> <td>3/4</td> <td>F</td> </tr> </table>	1/4	1/2	3/4	F	<i>87%</i>	
1/4	1/2	3/4	F				
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.

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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: **4-6-18**

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	<input checked="" type="checkbox"/> 1/4 <input checked="" type="checkbox"/> 1/2 <input checked="" type="checkbox"/> 3/4 <input type="checkbox"/> 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)			

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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:	<u>1940</u>						
Stop Time:	<u>1955</u>						
Total Run Time:	<u>15 mins</u>						
Starting Hour Meter Reading	<u>91.8</u>	<u>stop 92.0</u>					
Monthly Fuel Consumption(gal)							
Oil Level	<u>Good</u>						
Coolant Level		Coolant Temp. @ Start <u>56*c</u>	Finish= <u>75*c</u>				
Belt Condition	<u>Normal</u>						
Oil Pressure		Start = bar <u>8.3</u>	Finish= <u>6.7</u> bar				
Battery Condition	<u>Normal</u>						
Battery Voltage	<u>27.2</u>						
Idle RPMs	<u>1800</u>						
Generator		Comments					
Generator Volts	<u>4.17</u>						
Generator Amps	<u>N/A</u>						
Generator "KVA"	<u>N/A</u>						
Reason For Use		Comments					
Testing	✓						
Emergency							
Maintenance							
Generator		Comments					
Fuel Delivered	<u>No</u>						
Fuel Level	<table border="1"> <tr> <td>1/4</td> <td>1/2</td> <td>3/4</td> <td>F</td> </tr> </table>	1/4	1/2	3/4	F	<u>86%</u>	
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: Mike Hinton Date: 3-17-18

Operator: Alpha

Main Generator Breaker		Comments	
Open	✓	TESTING	
Closed	✓	NORMAL OPS. (STANDBY)	
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 = 4.1 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)			

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Notes: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

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Emergency Diesel Generator Weekly Test Log

Emergency Diesel Generator Weekly Test Log				
Plant:		Date: 3/9/18		
Operator: Collin Anderson				
Main Generator Breaker		Comments		
Open	✓			
Closed				
Engine		Comments		
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	Coolant Temp. @ Start	56 *c	Finish= 75*c
Belt Condition	Good			
Oil Pressure		Start = 8.4 bar	Finish=6.6 bar	
Battery Condition	Good			
Battery Voltage	27.1			
Engine RPMs	1800			
Generator		Comments		
Generator Volts	4.16 kV			
Generator Amps	N/A			
Generator "KVA"	N/A			
Reason For Use		Comments		
Testing	✓			
Emergency	N/A			
Maintenance	N/A			
Generator		Comments		
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>Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.</p>				

Emergency Diesel Generator Weekly Test Log

Plant: *Alpha*

Date: *3-2-18*

Operator: *Eduin Montes*

Main Generator Breaker		Comments					
Open	<input checked="" type="checkbox"/>	<i>open for test</i>					
Closed	<input checked="" type="checkbox"/>	<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>4.18</i>						
Generator Amps	<i>—</i>						
Generator "KVA"	<i>—</i>						
Reason For Use		Comments					
Testing	<input checked="" type="checkbox"/>						
Emergency	<input type="checkbox"/>						
Maintenance	<input type="checkbox"/>						
Generator		Comments					
Fuel Delivered	<i>—</i>						
Fuel Level	<table border="1"> <tr> <td>1/4</td> <td>1/2</td> <td>3/4</td> <td>F</td> </tr> </table>	1/4	1/2	3/4	F	<i>87%</i>	
1/4	1/2	3/4	F				
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.

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Project: 520111

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=67 bar
Battery Condition	GOOD	
Battery Voltage	27.	
Engine RPMs	1800	
Generator		Comments
Generator Volts	4.17 kV	
Generator Amps	255	
Generator "KVA"	255	
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 255 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	<input checked="" type="checkbox"/>		
Closed	<input type="checkbox"/>		
Engine		Comments	
Start Time:	<i>2242</i>		
Stop Time:	<i>2752</i>		
Total Run Time:	<i>10 min</i>		
Starting Hour Meter Reading	<i>90.8</i>		
Monthly Fuel Consumption(gal)			
Oil Level	<i>good</i>		
Coolant Level	<i>good</i>	Coolant Temp. @ Start <i>62</i> *c	Finish = <i>74</i> *c
Belt Condition	<i>good</i>		
Oil Pressure		Start = <i>8.1</i> bar	Finish = <i>7.6</i> bar
Battery Condition	<i>good</i>		
Battery Voltage	<i>26.9</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	<input checked="" type="checkbox"/>		
Emergency	<input checked="" type="checkbox"/>		
Maintenance	<input checked="" type="checkbox"/>		
Generator		Comments	
Fuel Delivered	<i>na</i>		
Fuel Level	1/4 1/2 3/4 F	<i>870%</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: *2-10-18*

Operator: *Ebrahim Munkil*

Main Generator Breaker		Comments	
Open	✓		
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>95</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	✓		
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)			

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

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40710 4/18/18

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:	0625						
Stop Time:	0640						
Total Run Time:	15 mins						
Starting Hour Meter Reading	90.4				90.6 Finish hour reading.		
Monthly Fuel Consumption(gal)							
Oil Level	Normal						
Coolant Level	Normal				Coolant Temp. @ Start 59 *c		Finish= 75*c
Belt Condition	Normal						
Oil Pressure					Start = 8.4 bar		Finish= 6.7bar
Battery Condition	Normal						
Battery Voltage	27.3						
Engine RPMs	1800						
Generator					Comments		
Generator Volts	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	87%		
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	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	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	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	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	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"/>	

Emergency Diesel Generator Weekly Test Log

Plant: Alpha Date: 1-29-18

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%	
Sulfur Concentrations <0.0015% (15ppm)		

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

ABENGOA

Emergency Diesel Generator Weekly Test Log

Plant:	Alpha				Date:	1-13-18	
Operator:	Mike Hinton						
Main Generator Breaker			Comments				
Open			✓				
Closed							
Engine			Comments				
Start Time:	2246						
Stop Time:	2301						
Total Run Time:	15 mins						
Starting Hour Meter Reading	89.7		90.0 end Hour reading				
Monthly Fuel Consumption(gal)							
Oil Level	Normal						
Coolant Level	Normal		Coolant Temp. @ Start		53 *c		
Belt Condition	Normal		Finish=		75*c		
Oil Pressure			Start =		7.6 bar		
Battery Condition	Normal		Finish=		6.7 bar		
Battery Voltage	27.5						
Engine RPMs	1800						
Generator			Comments				
Generator Volts	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	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: 1-7-18

Operator: Efraim Mendes

Main Generator Breaker		Comments	
Open	<input checked="" type="checkbox"/>		
Closed	<input type="checkbox"/>		
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	<input checked="" type="checkbox"/>		
Emergency	<input type="checkbox"/>		
Maintenance	<input type="checkbox"/>		
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.

ABENGOA

Emergency Diesel Generator Weekly Test Log

Emergency Diesel Generator Weekly Test Log

Plant: *Alpha*

Date: *12-31-17*

Operator: *Ebraim Mendes*

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</i>	<i>ending - 89.6h</i>	
Monthly Fuel Consumption(gal)			
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			Finish = <i>6.7</i> bar
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 MEG

 SCANNED &
 UPLOADED TO LH
 UPO DEC 31, 2017
 MEG 2/20/2018

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

ABENGOA

Emergency Diesel Generator Weekly Test Log

Emergency Diesel Generator Weekly Test Log

Plant: ~~Alpha Plant~~ **Alpha Plant** Date: 01/28/2018

Operator: **MANNY GARCIA**

Main Generator Breaker		Comments	
Open	✓		
Closed			
Engine		Comments	
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	1860		
Generator		Comments	
Generator Volts	4.17kV		
Generator Amps	272		
Generator "KVA"	14421		
Reason For Use		Comments	
Testing	✓		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered			
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

ALPHA BETA:

Date: 2/4/18

Operator: 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	
Generator (When Testing With Load)		
Breaker Close	✓	
Generator Volts	4.15	
Breaker Open		
Generator *KW*	1194	
Reason For Use		
Testing:	✓	
Emergency:		
Maintenance:		
Confirm Master Control Turned Back on Auto: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
<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 in 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 is no longer imminent or in effect.</p>		

Emergency Diesel Generator Weekly Test Log

ALPHA BETA:

Date: 1-28-18

Operator: 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
Generator (When Testing With Load)	
Breaker Close	✓
Generator Volts	4.13
Breaker Open	
Generator *KW*	1730
Reason For Use	
Testing:	✓
Emergency:	
Maintenance:	
Confirm Master Control Turned Back on Auto: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
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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	730L	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	74C ending
Oil Ptemperature	75C	
Fuel Level %	78	
Stop Time	2311	
Ending Hour Meter Reading	398.8	
Total Run Time	10 min	
Generator (When Testing With Load)		
Breaker Close	n/a	
Generator Volts	n/a	
Breaker Open	n/a	
Generator *KW*	n/a	
Reason For Use		
Testing:	n/a	
Emergency:	n/a	
Maintenance:	✓	
Confirm Master Control Turned Back on Auto: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
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Emergency Diesel Generator Weekly Test Log

Plant: **BETA** Date: **1-14-18**

Operator: **PHIL**

Main Generator Breaker		Comments
Open		NO WEEKLY TEST EMERGENCY USE ONLY
Closed		

Engine		Comments
Start Time:	0	
Stop Time:	0	
Total Run Time:	0	
Starting Hour Meter Reading	398.7	
Monthly Fuel Consumption(gal)	NA	
Oil Level	GOOD	
Coolant Level	GOOD	Coolant Temp. @ Start 58 *c Finish= NA*c
Belt Condition	GOOD	
Oil Pressure	NA	Start = 0 bar Finish= NA bar
Battery Condition	GOOD	
Battery Voltage	25.2	
Engine RPMs	NA	

Generator		Comments
Generator Volts		
Generator Amps	NA	
Generator "KVA"		

Reason For Use		Comments
Testing		
Emergency	NA	
Maintenance		

Generator		Comments
Fuel Delivered		
Fuel Level	1/4 1/2 3/4 F	78%
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: **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:	299.2 10MINS		
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 = 0.0bar	Finish=4.8 bar
Battery Condition	Good		
Battery Voltage	25.8		
Engine RPMs	1800		
Generator		Comments	
Generator Volts	4.17KV		
Generator Amps	288		
Generator "KVA"	4021		
Reason For Use		Comments	
Testing	✓		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered	—		
Fuel Level	1/4 1/2 3/4 F	78%	
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: *2-24-18*

Operator: *Caleb Sowards*

Main Generator Breaker

Open *FOR TEST PURPOSE*

Closed *BACK IN S/B*

Engine

Start Time: *2307*

Stop Time: *2517*

Total Run Time: *10min*

Starting Hour Meter Reading *399.5* *399.7 ending*

Monthly Fuel Consumption(gal) *189gal*

Oil Level *good*

Coolant Level *good* Coolant Temp. @ Start *56* °c Finish = *75* °c

Belt Condition *good*

Oil Pressure *good* Start = *9.1* bar Finish = *6.8* bar

Battery Condition *good*

Battery Voltage *26.7*

Engine RPMs *1800*

Generator

Generator Volts *na*

Generator Amps *na*

Generator "KVA" *na*

Reason For Use

Testing

Emergency *N/A*

Maintenance *N/A*

Generator

Fuel Delivered *na*

Fuel Level 1/4 1/2 3/4 F *78%*

Sulfur Concentrations *N/A*

<0.0015% (15ppm)

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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): *1*

Oil Level: *good*

Coolant Level: *good* Coolant Temp. @ Start: *42* °C Finish: *78* °C

Belt Condition: *good*

Oil Pressure: *good* Start = *8.8* bar 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	<input type="checkbox"/> 1/4	<input type="checkbox"/> 1/2	<input type="checkbox"/> 3/4	<input type="checkbox"/> F	<i>88% 70</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: **Beta**

Date: **12-14-18**

Operator: **L. Shell**

Main Generator Breaker		Comments	
Open	X		
Closed			
Engine		Comments	
Start Time:	06:10		
Stop Time:	06:20		
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"			
Reasons For Use		Comments	
Testing	X		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered	88% 48		
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 Sowards*

Main Generator Breaker		Comments	
Open	<input checked="" type="checkbox"/>		
Closed	<input type="checkbox"/>		
Engine		Comments	
Start Time:	<i>04.05</i>		
Stop Time:	<i>04.15</i>		
Total Run Time:	<i>10 min</i>		
Starting Hour Meter Reading	<i>463.4</i>	<i>ending 463.6</i>	
Monthly Fuel Consumption(gal)	<i>38</i>		
Oil Level	<i>good</i>		
Coolant Level: *c Finish:	<i>good</i>	Coolant Temp. @ Start <i>43</i> *c	Finish = <i>74</i> *c
Belt Condition	<i>good</i>		
Oil Pressure Finish:	<i>9</i>	Start = <i>9</i> bar	Finish = <i>7</i> bar
Battery Condition	<i>good</i>		
Battery Voltage	<i>26.6</i>		
Engine RPMs	<i>1800</i>		
Generator		Comments	
Generator Volts	<i>n/a</i>		
Generator Amps	<i>n/a</i>		
Generator "KVA"	<i>n/a</i>		
Reason for use		Comments	
Testing	<input checked="" type="checkbox"/>		
Emergency	<input type="checkbox"/>		
Maintenance	<input type="checkbox"/>		
Generator		Comments	
Fuel Delivered	<i>n/a</i>		
Fuel Level	<i>88</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: *Beta*

Date: *12-2-18*

Operator: *Caleb*

Main Generator Breaker **Comments**

Open *Open*

Closed

Engine **Comments**

Start Time: *0410*

Stop Time: *0420*

Total Run Time: *10 min*

Starting Hour Meter Reading *463.2 ending*

Monthly Fuel Consumption(gal) *19*

Oil Level *Good*

Coolant Level *Good* Coolant Temp. @ Start *43* *c Finish = *72* *c

Belt Condition *Good*

Oil Pressure *Good* Start = *8.6* bar Finish = *70* 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
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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:	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)	891. LEVEL						
Oil Level	N						
Coolant Level	Finish=	N	Coolant Temp. @ Start	44 °c	Finish=	75 °c	
Belt Condition	GOOD						
Oil Pressure	Finish=	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"							
Reasons 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.

ABENGOA

Emergency Diesel Generator Weekly Test Log

Plant: BETA		Date: 11/16/18	
Operator: PLAZA			
Main Generator Breaker		Comments	
Open	✓		
Closed			
Engine		Comments	
Start Time:	2045		
Stop Time:	2055		
Total Run Time:	10 MINS		
Starting Hour Meter Reading	462.9		
Monthly Fuel Consumption(gal)	463.1	FUEL LEVEL 89%	
Oil Level	N		
Coolant Level	N	Coolant Temp. @ Start	45*c Finish= 70*c
Belt Condition	GOOD		
Oil Pressure	bar	Start = 8.5 bar	Finish= 6.9 bar
Battery Condition	GOOD		
Battery Voltage	26.8		
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: Beta Date: 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 Finish: *C Coolant Temp. @ Start 44*C Finish=75*C

Belt Condition Good

Oil Pressure Bar 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)

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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: 11-3-18

Operator: L. Shell

Main Generator Breaker		Comments
Open	<input checked="" type="checkbox"/>	
Closed	<input type="checkbox"/>	

Engine		Comments
Start Time:	<u>02:02</u>	
Stop Time:	<u>02:12</u>	
Total Run Time:	<u>10 min</u>	
Starting Hour Meter Reading	<u>462.4</u>	
Monthly Fuel Consumption(gal)		
Oil Level	<u>@ max mark</u>	
Coolant Level	<u>Full</u>	Coolant Temp. @ Start <u>43*c</u> Finish= <u>75*c</u>
Belt Condition	<u>Good</u>	
Oil Pressure	Finish= <u>4.2 bar</u>	Start = <u>8.4 bar</u> Finish= <u>6.9 bar</u>
Battery Condition	<u>Good</u>	
Battery Voltage	<u>26.7</u>	
Engine RPMs	<u>1799/1800</u>	

Generator		Comments
Generator Volts		
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	<u>NO</u>					
Fuel Level	<table border="1"> <tr> <td>1/4</td> <td>1/2</td> <td>3/4</td> <td>F</td> </tr> </table>	1/4	1/2	3/4	F	<u>39%</u>
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:

10-27-18

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 <small>to finish</small>	Good	Coolant Temp. @ Start 40 *c Finish= 72 *c
Belt Condition	Good	
Oil Pressure <small>Finish=</small>	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:	0842		
Stop Time:	0852		
Total Run Time:	10 MIN.		
Starting Hour Meter Reading	461.8	462.0	
Monthly Fuel Consumption(gal)			
Oil Level	N		
Coolant Level	N	Coolant Temp. @ Start 45 *c	Finish=75*c
Belt Condition	N		
Oil Pressure		Start =8.4 bar	Finish=6.9bar
Battery Condition	N		
Battery Voltage	26.6		
Engine RPMs	1800		
Generator		Comments	
Generator Volts			
Generator Amps			
Generator "KVA"	4.1		
Reason For Use		Comments	
Testing	<input checked="" type="checkbox"/>		
Emergency	<input type="checkbox"/>		
Maintenance	<input type="checkbox"/>		
Generator		Comments	
Fuel Delivered	NO		
Fuel Level	1/4 1/2 3/4 F	85%	
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	<table border="1"> <tr> <td>1/4</td> <td>1/2</td> <td>3/4</td> <td>F</td> </tr> </table>	1/4	1/2	3/4	F	<u>68</u>	<u>10-11-18 - Filled to 90%</u>
1/4	1/2	3/4	F				
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:	<u>0404</u>		
Stop Time:	<u>0414</u>		
Total Run Time:	<u>10 min</u>		
Starting Hour Meter Reading	<u>45.6</u>	<u>46.5</u>	
Monthly Fuel Consumption(gal)	<u>45.6</u>		
Oil Level	<u>good</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>8.2</u> bar	Finish = <u>6.9</u> bar
Battery Condition	<u>good</u>		
Battery Voltage	<u>26.6</u>		
Engine RPMs	<u>1800</u>		
Generator		Comments	
Generator Volts	<u>4.16</u>		
Generator Amps	<u>204</u>		
Generator "KVA"	<u>4.21</u>		
Reason For Use		Comments	
Testing	✓		
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered	<u>no</u>		
Fuel Level	1/4 1/2 3/4 F	<u>68070</u>	
Sulfur Concentrations <0.0015% (15ppm)			

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

ABENGOA

Emergency Diesel Generator Weekly Test Log

Plant: BETA		Date: 9/22/18	
Operator: MANUEL GARCIA			
Main Generator Breaker		Comments	
Open	✓		
Closed			
Engine		Comments	
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		
Generator		Comments	
Generator Volts	4.17kV		
Generator Amps			
Generator "KVA"	4021		
Reason For Use		Comments	
Testing	✓		
Emergency	—		
Maintenance	—		
Generator		Comments	
Fuel Delivered			
Fuel Level	1/4 1/2 3/4 F	68%	
Sulfur Concentrations <0.0015% (15ppm)			

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Note: Fuel consumption 114.01 gal/h (431.57 l/h) of load approximately.

ABENGOA

Emergency Diesel Generator Weekly Test Log

Plant: Beta Date: 9/16/18

Operator: _____

Main Generator Breaker		Comments
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Open		
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Closed		
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Engine		Comments
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Start Time:	<u>7:07 pm</u>	
-------------	----------------	--

Stop Time:	<u>7:18 pm</u>	
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Total Run Time:	<u>10min</u>	
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Starting Hour Meter Reading	<u>4662</u>	
-----------------------------	-------------	--

Monthly Fuel Consumption(gal)		
-------------------------------	--	--

Oil Level	<input checked="" type="checkbox"/>	
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Coolant Level	<input checked="" type="checkbox"/>	Coolant Temp. @ Start <u>45</u> *c Finish= <u>76</u> *c
---------------	-------------------------------------	--

Belt Condition	<input checked="" type="checkbox"/>	
----------------	-------------------------------------	--

Oil Pressure	<input checked="" type="checkbox"/>	Start = <u>8.5</u> bar Finish= <u>6.9</u> bar
--------------	-------------------------------------	--

Battery Condition	<input checked="" type="checkbox"/>	
-------------------	-------------------------------------	--

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>	
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Reason For Use		Comments
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Testing	<input checked="" type="checkbox"/>	
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Emergency		
-----------	--	--

Maintenance		
-------------	--	--

Generator		Comments
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Fuel Delivered		
----------------	--	--

Fuel Level	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px;">1/4</td> <td style="width: 20px;">1/2</td> <td style="width: 20px;">3/4</td> <td style="width: 20px;">F</td> </tr> </table>	1/4	1/2	3/4	F	
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: 9/9/18

Operator: Rico T

Main Generator Breaker		Comments	
Open			
Closed			
Engine		Comments	
Start Time:	<u>6:31 pm</u>		
Stop Time:	<u>6:41 pm</u>		
Total Run Time:	<u>10 min</u>		
Starting Hour Meter Reading	<u>466.0</u>		
Monthly Fuel Consumption(gal)			
Oil Level	<input checked="" type="checkbox"/>		
Coolant Level	<input checked="" type="checkbox"/>	Coolant Temp. @ Start <u>46</u> °C	Finish= <u>76</u> °C
Belt Condition	<input checked="" type="checkbox"/>		
Oil Pressure	.	Start = <u>85</u> bar	Finish = <u>69</u> bar
Battery Condition	<input checked="" type="checkbox"/>		
Battery Voltage	<u>26.2</u>		
Line RPMs	<u>1800</u>		
Generator		Comments	
Generator Volts	<u>4.14</u>		
Generator Amps	<u>1040</u>		
Generator "KVA"	<u>4.16</u>		
Reason For Use		Comments	
Testing	<input checked="" type="checkbox"/>	<u>weekly</u>	
Emergency			
Maintenance			
Generator		Comments	
Fuel Delivered	<u>NO</u>		
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.