DOCKETED	
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Project Title:	Abengoa Mojave Compliance
TN #:	231248
Document Title:	Mojave Solar Project 2018 Annual Compliance Report
Description:	Mojave Solar Project 2018 Annual Compliance Report, Part 2-1
Filer:	Jose Manuel Bravo Romero
Organization:	Mojave Solar Project
Submitter Role:	Applicant
Submission Date:	12/16/2019 10:54:03 AM
Docketed Date:	12/16/2019

ABENGOA

L Of

Emergency Diesel Generator Weekly Test Log

Plant: fS-c..\-C\ Date: 9--\-1

Operator: b \-.\ \

Main Generator Breaker		CO,nments
Open	><	
Closed		
Engine		**Comments**
StartTime:	' II	
StopTime:	c) ;J..:11	
Total Run Time:	/ 0 >II ;...	
Starting Hour Meter Reading	t.{(:,o,	
Monthly Fuel Consumption(gal)		
Oil Level	@ <:ii(	
Coolant Level		Coolant Temp.@ Start 4/£ *c Finish= '}5*c
Belt Condition		
Oil Pressure		Start= S ,'f bar Finish= , . bar
Battery Condition	i\.o<)c.9	
lattery Voltage	:H,...)...	
Engine RPMs	11 q9/(Boo	
Generator		**Cqmments**
Generator Volts		
Generator Amps		
Generator "KVA"		
Reaseo For Use		**Comments**
Testing	X	
Emergency		
Maintenance		
Genera or		**Comments-**
Fuel Delivered	(..,9 Ql	
Fuel Level 1/4 1/2 3/4 F		
Sulfur Concentrations <0.0015% (ISppm)		

This Emergency Generator shall be llmited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. fn addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding complfance source testing. There is no limft on engine operation for Emergency use.

This engTne may operate in response to notification of impending loss of uttlity back-feed power if the interconnected utility has ordered an outage to the pfant or expects to order such outages at a particular time the engine is operated no more than 30 minutes prior to the forecasted outage ,md the engine is shut immediately after the utility advises that the outage no longer imminent or m effect.

Note: Fuel consumption 114.01 gal/h (431.571/h) of load approximately.

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Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: BE-..\o. Date: -LM

Operator: sh. \ I

Main Generator Breaker		Comments
Open	x,	
Closed		
Engine		**Comments**
Start Time:	,:be)	
Stop Time:	*1 :00*	
Total Run Time:	*JO ,n*	
Starting Hour Meter Reading	*"'Wo,17*	
Monthly Fuel Consumption(gal)		
Oil Level	max	
Coolant Level	*Gcx!*	Coolant Temp. @ Start 'tlo *c Finish="t5 *c
Belt Condition	*C..oed,*	
Oil Pressure		Start = g ,') bar Finish=&,. ◁ bar
Battery Condition	*Gd*	
Battery Voltage	*..llv-"*	
Engine RPMs	180G	
Generator		**Comments**
Generator Volts		
Generator Amps		
Generator "KVA"		
Reason For Use		**Comments**
Testing	X	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered	*<cg lo*	
Fuel Level 1/4 | 1/2 | 3/4 | F		
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.571/h) of load approximately.

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Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: t:. 14

Date: 2/t-,((g--

Operator: -A- L)-8. l

Main Generator Breaker		Comments
Open	/	
Closed		
Engine		**Comments**
Start Time:	.Q.-3I \	
Stop Time:	c93 c>-	
Total Run Time:	\ON1	
Starting Hour Meter Reading	l.-JO	
Monthly Fuel Consumption(gal)		
Oil Level		
Coolant Level	C:, c. ve-	Coolant Temp.@ Start4(p*c Finish= *c 7/11
Belt Condition	U)OOv	
Oil Pressure	(, tr9ol	Start = 0 Obar Finish= bar h/-f
Battery Condition	G,-,ooX'	
Battery Voltage	c2l... CoV	
engine RPMs	1fil"0	
Generator		**Comments**
Generator Volts	4. \1	
Generator Amps		
Generator "KVA"	:)5:r1. o	
Reason For Use		**Comments**
Testing		
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level [1/4] 1!fl)V4 [F	(0C ICfD	
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.57 1/h) of load approximately.

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Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: rs c, Date: f-/Z -I Y

Operator:e, ct kb 56 4 vds

Main Generator Breaker		Comments
Open	v	
Closed		
Engine		**Comments**
Start Time:	(!}e;(l/{)	
Stop Time:	r>C:- tJ	
Total Run Time:	I/) YI:I ')'\	
Starting Hour Meter Reading	LJ/nf(l/	
Monthly Fuel Consumption(gal)	2..Z,f{	
Oil Level		
Coolant Level		Coolant Temp.@ Start£/:,· *c Finish=·). ,*c
Belt Condition		
Oil Pressure	'(6J,	Start=:;::: I bar Finish= bar
Battery Condition	,"·rn	
Battery Voltage	'Sf.f.	
Engine RPMs	lW)t)	
Generator		**Comments**
Generator Volts	1/\	
Generator Amps	I/I,	
Generator "KVA"	V I tr..	
Reason For Use		**Comments**
Testing	V	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered	IA tA	
Fuel Level I 1/4 I 1/2 I 3/4 I F	m0."7o	
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.571/h) of load approximately.

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Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: B +er

Date: f;-5=-{<;{'

Operator: C Vifeb o v,/t_ vt!Lf

Main Generator Breaker		Comments
Open	\/	
Closed		
Engine		**Comments**
Start Time:	07 7	
Stop Time:	11\747,	
Total Run Time:	rZ./-(;.t),7-	
Starting Hour Meter Reading	•,n-; .J	
Monthly Fuel Consumption(gal)		
Oil Level	/rp-	
Coolant Level	I"'T'Y'IJ	Coolant Temp. @ Start tfl: *c Finish= -;t;" *c
Belt Condition		
Oil Pressure		Start = 7,'7 bar Finish= f n $ bar
Battery Condition		
Battery Voltage	v? c..s–	
Engine RPMs	tfm	
Generator		**Comments**
Generator Volts	\/_C.	
Generator Amps	I.Ar..	
Generator "KVA"	1/\.	
Reason For Use		**Comments**
Testing	_./	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered	\/\, t ;	
Fuel Level 1/4 1/2 3/4 F	/,,. q '7o	
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.57 1/h) of load approximately.

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Emergency Diesel Generator Weekly Test Log

Plant: Bei-c\		Date: 7-r;).1-lR
Operator: m IAe 1m		
Main Generator Breaker		**Comments**
Open	./	
Closed		
Engine		**Comments**
Start Time:	1).0JD	
Stop Time:	'J-b·:„	
Total Run Time:	I\'\ 11"1	
Starting Hour Meter Reading	4t-l) 0	
Monthly Fuel Consumption(gal)		
Oil Level	(.-w	
Coolant Level		Coolant Temp. @ Start Lt'"*c Finish='"" *c
Belt Condition	i „i)	
Oil Pressure		Start= S. /-\ bar Finish= ,, '-/bar
Battery Condition	boo	
Battery Voltage	" .1	
Engine RPMs	\	
Generator		**Comments**
Generator Volts	NIA	
Generator Amps	I	
Generator "KVA"	'V	
Reason For Use		**Comments**
Testing	,./	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered	\\lo	
Fuel Level I 1/4 | 1/2 | 3/4 | F	,q· ,.	
Sulfur Concentrations <0.0015% (1 Sppm)		

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 (431.571/h) of load approximately.

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Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: lse;-\ Date: "l - t • 16

Operator: L . S \I, \\

Main Generator Breaker		Comments
Open	X	
Closed		
Engine		**Comments**
Start Time:	1<i •t'1	
Stop Time:	I°+\2."I	
Total Run Time:	I M; n	
Starting Hour Meter Reading	'-\S9..	
Monthly Fuel Consumption(gal)		
Oil level	'oo<>d	
Coolant level	Q o o J	Coolant Temp.@ Start <tl *c Finish= 1 b *c
Belt Condition	Q.go	
Oil Pressure		Start = c:i bar Finish=c'o . bar
Battery Condition	Goo J.	
Battery Voltage	:J lo ,4	
engine RPMs	, So 2>	
Generator		**Comments**
Generator Volts		
Generator Amps		
Generator "KVA"		
Reason For Use		**Comments**
Testing		
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered	,lSk)	
Fuel Level [1/4] [1/2] [3/4] [F	6:.'fO /_"	
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.571/h) of load approximately.

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i/Iojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: +a

Date: ta I i'-d tY

Operator: 12_1 r-;)

Main Generator Breaker		Comments
Open		
Closed		
Engine		**Comments**
Start Time:	i- '""	
Stop Time:	q .\ D.'L \ M	
Total Run Time:	\0 M,'n	
Starting Hour Meter Reading	L\5C\.	
Monthly Fuel Consumption(gal)		
Oil Level	v	
Coolant Level		Coolant Temp.@ StartLtc_ *c Finish='l(o *c
Belt Condition	v'	
Oil Pressure		Start = '&S bar Finish=to.'t bar
Battery Condition	v	
Battery Voltage	9lo\	
Engine RPMs	ff'o-c>	
Generator		**Comments**
Generator Volts	4.\	
Generator Amps	o::>qd-	
Generator "KVA"	)Sd-D	
Reason For Use		**Comments**
Testing	v	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level | 1/4 | 1/2 | 3/4 | F		
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.571/h) of load approximately.

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Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: 13e.+A

Date: to l,l

Operator: -K.Jr-

Main Generator Breaker		Comments
Open		
Closed		
Engine		**Comments**
Start Time:	q:a4nM	
Stop Time:	9',"3	
Total Run Time:	\0 I"\:'"	
Starting Hour Meter Reading	4.5	
Monthly Fuel Consumption(gal)		
Oil level		
Coolant Level	v	Coolant Temp. @ Start '-t'l *c Finish=ib *c
Belt Condition	v	
Oil Pressure	v	Start='3. bar Finish=5. 3 bar
Battery Condition	v	
Battery Voltage	v	
Engine RPMs	ro	
Generator		**Comments**
Generator Volts	L\ \ l,..	
Generator Amps	061 1,	
Generator "KVA"	:;)y \q	
Reason For Use		**Comments**
Testing	./	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel level | 1/4 | 1/2 | 3/4 | F	L.q l	
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.571/h) of load approximately.

ABENGOA

Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: 'B o.

Date: to - q -(

Operator: oh ,

Main Generator Breaker		Comments
Open	X	
Closed		
Engine		**Comments**
Start Time:	Ot.\: OS	
Stop Time:	0 '1t	
Total Run Time:		
Starting Hour Meter Reading	Sq. 'i	
Monthly Fuel Consumption(gal)		
Oil Level		
Coolant Level		Coolant Temp. @ Start 1 t, *c Finish= 15 * c
Belt Condition	G- od	
Oil Pressure		Start = &-.I bar Finish= br9 bar
Battery Condition	a_-od	
Battery Voltage	'1."' "	
:ngine RPMs	• 8 0	
Generator		**Comments**
Generator Volts	K\ 13,	
Generator Amps	J 3 "	
Generator "KVA"	tJ d 1	
Reason For Use		**Comments**
Testing	'X	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered	<:9%	
Fuel Level [1/4] [1/2] [3/4] [F		
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.571/h) of load approximately.

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Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: Be+" Date: 6-24 -fO

Operatoreu(l, 1A/d'rJ.

Main Generator Breaker		Comments
Open	V	
Closed		
Engine		**Comments**
Start Time:		
Stop Time:		
Total Run Time:		
Starting Hour Meter Reading		
Monthly Fuel Consumption(gal)		
Oil Level		
Coolant Level		Coolant Temp. @ Startl.J.S-*c Hnish=,· c
Belt Condition		
Oil Pressure		Start= t;,i;-bar Finish=t;, X"bar
Battery Condition		
Battery Voltage		
Engine RPMs		
Generator		**Comments**
Generator Volts		
Generator Amps		
Generator "KVA"		
Reason For Use		**Comments**
Testing	V	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level [1/4 [1/2 [3/4 [F		
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.57 1/h) of load approximately.

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Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant ts — Date: 11 dCl

Operator: O ..VLv-€-\ o'--

Main Generator Breaker		Comments
Open	v'	
Closed		
Engine		**Comments**
Start Time:	..2l : \	
Stop Time:		
Total Run Time:	IOK1 ".	
Starting Hour Meter Reading	4'"o	
Monthly Fuel Consumption(gal)		
Oil Level	Grm	· £:::,o .,-e,. "-A- " Uut"
Coolant Level	c;;;, P	Coolant Temp.@ Start4 a··c Finish= 7S"*c
Belt Condition	c,	
Oil Pressure	C 1	Start = t,t{:l>ar Finish=/1 .5(1 bar
Battery Condition	o v	
Battery Voltage	d#3	
ngine RPMs	\?5UO	
Generator		**Comments**
Generator Volts	4, I(o\67	
Generator Amps		
Generator "KVA"	I S'<S3	
Reason For Use		**Comments**
Testing	/	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered ""	f-A/	
Fuel Level I 1/4 I 1/ Jl4 I F	(o'-1lff)	
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.57 1/h) of load approximately.

ABENGOA

Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant:-U

Date: a,J / I

Operator: c; A-

Main Generator Breaker		Comments
Open	./	
Closed		
Engine		**Comments**
Start Time:	19	
Stop Time:	:J.:J..:}Cf	
Total Run Time:	I t) ...., ,s.	
Starting Hour Meter Reading	4SS<'. C\	
Monthly Fuel Consumption(gal)		
Oil Level	r—wt.J..	Abovt., Qdri ll LO J..J0, U>W
Coolant Level	C'i (Jl)d.	Coolant Temp.@ Start *c Finish=,/,} *c
Belt Condition	(qo-t!'cX	
Oil Pressure	Gi	Start = O.0 bar Finish= (,.1 bar
Battery Condition	ei crt>rl	
Battery Voltage	Qr.£	
engine RPMs	\ O V	
Generator		**Comments**
Generator Volts	4.\	
Generator Amps	'	
Generator "KVA"	-	\ "-->EO\..l<;
Reason For Use		**Comments**
Testing	../	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered	--	
Fuel Level I 1/4 I 1/2 r3t4Y F	(oCf°/n	
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.571/h) of load approximately.

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Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant (3? t'Ct — Date 4,-Z.-/f'

Operator: (j.,,,)(") V V4 r' J 'f

Main Generator '8'reaicer		Comments
Open	V	
Closed		
Engine		**Comments**
Start Time:	11-"7	
Stop Time:	D 11-.	
Total Run Time:	/Om\ \fl.	
Starting Hour Meter Reading	lJr;K 7	
Monthly Fuel Consumption(gal)		
Oil Level		
Coolant Level	ll	Coolant Temp.@ Start *c Finish="?; *c
Belt Condition	h')	
Oil Pressure	C -	Start = 7.0f bar Finish . bar
Battery Condition		
Battery Voltage	"Yr.	
engine RPMs	T	
Generator		**Comments**
Generator Volts	V 17	
Generator Amps	M t-t	
Generator "KVA"	vie,	
Reason For Use		**Comments**
Testing		
Emergency		
Mai ntena nee		
Generator		**Comments**
Fuel Delivered	N14	
Fuel Level 1/4 1/2 3/4 F	/r.	
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.571/h) of load approximately.

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Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: 13..::'\ α, Date: s–&r.- ,a

Operator: L , $h.c...l(

Main Generator Breaker		Comments
Open	)(	
Closed		
Engine		**Comments**
Start Time:	t≥J;.Q	
Stop Time:	l6	
Total Run Time:	Io ; '"1;"	
Starting Hour Meter Reading	.	
Monthly Fuel Consumption(gal)		
Oil Level	No (' p ι ed	
Coolant Level	6p. J	Coolant Temp.@ Start '57 *c Finish= 7S *c
Belt Condition	Sood	
Oil Pressure		Start= ? ,g bar Finish= /! bar
Battery Condition	Q...; ∞	
Battery Voltage	2 , . ,	
Engine RPMs	11 ¶8	
Generator		**Comments**
Generator Volts		
Generator Amps		
Generator "KVA"		
Reason For Use		**Comments**
Testing	X	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered	No	
Fuel Level | 1/4 | 1/2 | 3/4 | F	4 CJ;:	
Sulfur Concentrations <0.0015% (1 Sppm)		

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 (431.571/h) of load approximately.

ABENGOA

Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant /3cn\ Date: -2f-/

Operator: /b ,))vva vd

Main Generator Breaker		Comments
Open	v	
Closed		
Engine		**Comments**
Start Time:	07.()1[]	
Stop Time:	rn	
Total Run Time:	Ir;	
Starting Hour Meter Reading	4).'l.4	
Monthly Fuel Consumption(gal)		
Oil Level	li6f'lr:i	
Coolant Level		Coolant Temp. @ Start(:?{ *c Finish=,';; *c
Belt Condition	n	
Oil Pressure	rVsnr×	Start= 1.7 bar Finish= In.(bar
Battery Condition	e.ont"	
Battery Voltage	'n.,t,	
:ngine RPMs	Ill;;.n	
Generator		**Comments**
Generator Volts	lJ.,I -	
Generator Amps		
Generator "KVA"		
Reason For Use		**Comments**
Testing	v	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered	Nl4	
Fuel Level [1/4 [1/2 [3/4 [F	(jt; fJ'%	
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.571/h) of load approximately.

ABENGOA

Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: Ro

Date: S /I I IY-

Operator:-y iP n

Main Generator Breaker		Comments
Open		
Closed	,./	
Engine		**Comments**
Start Time:	i \"t OM	
Stop Time:	I r :rl C>	
Total Run Time:	If\	
Starting Hour Meter Reading	4	
Monthly Fuel Consumption(gal)		
Oil Level	v	
Coolant Level	v	Coolant Temp.@ StartS *c Finish='l S *c
Belt Condition	./	
Oil Pressure	v	Start = . ':\ bar Finish= .'"\ bar
Battery Condition	v	
Battery Voltage	g.(o,,,	
Engine RPMs	ffN"\	
Generator		**Comments**
Generator Volts	':)'&.	
Generator Amps	bS'<}.	
Generator "KVA"	Lt \l_	
Reason For Use		**Comments**
Testing	v	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level 1/4 1/2 3/4 F		
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.57 1/h) of load approximately.

ABENGOA

Emergency Diesel Generator Weekly Test Log

Plant: Date: /s/ 1

Operator:

Main Generator Breaker		Comments
Open		
Closed		
Engine		**Comments**
Start Time:		
Stop Time:		
Total Run Time:		
Starting Hour Meter Reading		
Monthly Fuel Consumption(gal)		
Oil Level		
Coolant Level		Coolant Temp. @ Start Si *c Finish= rit....*c
Belt Condition		
Oil Pressure		Start = . bar Finish=lo,L"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% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.571/h) of load approximately.

ABENGOA

Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: e-rA

Date: 4.-2.8-/ 8

Operator: f>Hl_. -1"b-..>l

Main Generator Breaker		Comments
Open	✓	
Closed	–	
Engine		**Comments**
Start Time:	.2.\·h'2–	
Stop Time:	22:1+2-	
Total Run Time:	45'"6'. I	
Starting Hour Meter Reading	,.°1	4'5'"lSt' fu01NG
Monthly Fuel Consumption(gal)	–	
Oil Level	C:,ooo	
Coolant Level	(;col)	Coolant Temp. @ Start *c Finish=75 *c
Belt Condition	Cc::::<h>	
Oil Pressure	<caoon	Start= 'B·3bar Finish:l,b bar
Battery Condition	boon	
Battery Voltage	.u;.re.	
Engine RPMs	rC,oO	
Generator		**Comments**
Generator Volts	A.•fl, v	
Generator Amps	–	
Generator "KVA"		
Reason For Use		**Comments**
Testing	v.'1	
Emergency	– –	
Maintenance		
Generator	–	**Comments**
Fuel Delivered		
Fuel Level I 1)4"1 J//W. I F	,OZ	
Sulfur Concentrations <0.0015% (1 Sppm)	–	

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Note: Fuel consumption 114.01 gal/h (431.57 1/h) of load approximately.

ABENGOA

Emergency Diesel Generator Weekly Test Log

Plant: f2.tAa
Date: I ,/al (-,
Operator: 'f. ,r'''''

Main Generator e,..eaker		Commen.,ts
Open		
Closed		
Engine		**Comments**
Start Time:	TJoM	
Stop Time:	'1.'., o('A	
Total Run Time:	In M:..1	
Starting Hour Meter Reading	?fl3.'?)	
Monthly Fuel Consumption(gal)		
Oil Level	t.\C'mA\	
Coolant Level	IJ fD'A \	Coolant Temp. @ Start SC\ *c Finish= T'\lo*c
Belt Condition	11E .(\'\(I\	
Oil Pressure	NoV2.m	Start = i , 1\ bar Finish= ,1 bar
Battery Condition	Nee.MA..\	
Battery Voltage	q "1, \	
Engine RPMs	\ion	
Generator		**Comments**
Generator Volts	Y .\S	
Generator Amps	03 'i	
Generator "KVA"	I S."6t	
Reason For Lise		**Comments**
Testing	./ ex \	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level 1/4 1/2 JJ4 F	C(6f.	
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.571/h) of load approximately.

ABENGOA

Emergency Diesel Generator Weekly Test Log

Plant: Beta

Date: 4/21/1

Operator: Manny Garcia

Main Generator Breaker		Comments
Open		
Closed	✓	
Engine		**Comments**
Start Time:	8:16 4/21/18	
Stop Time:	On Going	
Total Run Time:	~~[illegible]~~	
Starting Hour Meter Reading	400.8	
Monthly Fuel Consumption(gal)		
Oil Level	Good	
Coo ant Level	Good	Coolant Temp. @ Start 58 *c Finish= *c
Belt Condition	Good	
Oil Pressure	Good	Start = 0 bar Finish= bar
Battery Condition	Good	
Battery Voltage	26.6	
gine RPMs	1800	
Generator		**Comments**
Generator Volts	4.17	
Generator Amps		
Generator "KVA"	4021	
Reason For Use		**Comments**
Testing		
Emergency		
Maintenance	✓	Outage
Generator		**Comments**
Fuel Delivered	4/21/18	78% → Top off 91% @ 8:35 AM
Fuel Level 1/4 1/2 3/4 F		
Sulfur Concentrations <0.0015% (15ppm)		

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. Fuel consumption 114.01 gal/h (431.571/h} of load approximately.

ABENGOA

NORTH AMERICA

Operator(s): ME

Date: 12-1 \ 2:

Emergency Diesel Generator Bi-Hourly Reading:

Time Of Reading	Oil Pressure	Gen. Voltage	Engine RPM	Coolant Temp.	Fuel Level	Hour Meter	Oil Temp	Gen. KWH
08:16	0	4.17	1800	58°	78%	400.8	71°	NOT SYNC
10:45	6.5	4.12	1800	77°	86%	403.6	76°	8/13998
13:10	6.4	4.15	1799	78°	82%	405.7	77°	795
15:10	6.2	4.14	1800	81°	78%	407.6	79°	1124
16:50	6.2	4.14	1800	81	75%	409.3	79°	1108
1900	6.3	4.13	1800	80	71%	411.5	78	1022
2100	6.3	4.17	1800	78	68%	413.6	76	949
2300	6.3	4.14	1800	78	64%	415.5	76	968
4-22-18 0100	6.3	4.13	1800	77	60%	417.5	76	953
0300	6.3	4.12	1800	77	56%	419.5	75	940
0500	6.3	4.15	1800	76	53%	421.5	78	925
07.45	6.3	4.13	1800	77	49%	424.2	75	978
10:40	6.3	4.13	1800	79°	85%	427.1	77°	1096
13:30	6.2	4.13	1800	82°	79%	429.9	80°	1025
15:30	6.1	4.17	1800	83	74%	432.1	81°	1104

Comments: STARTED 8:16AM - GEN SYNC @ 8:44

457 gallons 4/21/18 8:35AM DELIVERED

1726 gallons 4/22/18 7:45AM FUEL DELIVERED 49% → 90%

ABENGOA

NORTH AMERICA

Beta

Operator(s): :Ji!,t- fi> t s/t-1/flJ,Yf.

Date: 4 -7- '2../S

Emergency Diesel Generator Bi-Hourly Readings

Time Of Reading	Oil Pressure	Gen. -voltage	Engine RPM	Coolant Temp.	Fuel Level	Hour Meter	Oil Temp	Gen. KWH
,<\ oo	,.	Ll-·3	\&00	"1C\	'io	4 "3CS"	., ,	er
Z,cPC>	(...	4r"t	l y;oo	-, 1.r	bG%	451,S"	r,-.,	\C>1>'t
21	& 'S	L -L (	1 oo	•	bO	4'"?:)ls-	/	-o
4t/.;a 0b'"D	.	4. ., u	1 >Joo	-, -,	1"%	IA	, b	-?3o
()'300	(_ Z	4. J'? -	\19	-,-,	-545%o	LfU. .5"	1 ")	l o1 ' L
oo	H "b	14. lb	\ 1s°ou	, b	-S-7o	443	,	1 a'tC:
l'Y?frl.)	/, 1	<1.14..	l t"ml	lto °	4-7k	441.s	15:o	9/7
Goo	(-	Lf. I<	I	70-0	"f4"/n	i.LLfq-	71t>	q .3
1/trO	(2-	'tJ-I	I k07)	3-.:I'	4/bz..	I	-fO"	JOC/2
I. t7n	/.J	qr.	/79"'1	???'	L. 7	.s-3S	xn'>	II&t'J Pumping fuel 1#
11:rV	(../	/J [7	/VD	"(tf	7c/t>	VSSS	-go	If;4
nu0	/, I	l/.!J	Iart)	8')	7.Jeta	I/7 \	Jrhd	/DIA y
/77 ~~1778~~	17		O	/.	(//#p:	Cl,). CJ	l<	c> STOP EDG

Comments: FIRST Sk-rr- lv/ZA.lf) IN CONTROL ROOM - 4/23

FUEL DELIVERY 1;) :45PM 4/23/18 38%/78% 1834 gallons

ABENGOA

Emergency Diesel Generator Weekly Test Log

Plant: BETA

Date: 4-1 £+:- 1 <:,t

Operator: PHIL TOURGEUS

Main Generator Breaker		Comments
Open	OPEN	
Closed	—	
Engine		**Comments**
Start Time:	06:26	
Stop Time:	06:36	
Total Run Time:	10MIN	
Starting Hour Meter Reading	400.6	400.8 END HRS
Monthly Fuel Consumption(gal)	—	
Oil Level	GOOD.	
Coolant_Level	GOOD	Coolant Temp. @ Start 1,0 •c Finish=J'> •c
Belt Condition	GOOD	
Oil Pressure		Start = 8.2 bar Finish=&-1$ bar
Battery Condition	GOOD	
:ery Voltage	26.7	
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	78%	
Sulfur Concentrations <0.0015% (15ppm)		

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Note: Fuel consumption 114.01 ga1/h (431.57 1/h) of load approximately.

ABENGOA

Emergency Diesel Generator Weekly Test Log

Plant: BETA PLANT

Date: 04/06/18

Operator: MANUEL GARCIA

Main Generator Breaker		Comments
Open	✓	
Closed		
Engine		**Comments**
Start Time:	21:35	
Stop Time:	2:45	
Total Run Time:	10 MINS	
Starting Hour Meter Reading	400.4	
Monthly Fuel Consumption(gal)		
Oil Level	Good	
Coolant Level	Good	Coolant Temp. @ Start 57 *c Finish= 76 *c
Belt Condition	Good	
Oil Pressure	Good	Start = 0.0 bar Finish= 6.8 bar
Battery Condition	Good	
ery Voltage	26.2	
Engine RPMs	1800	
Generator		**Comments**
Generator Volts	4.12	
Generator Amps		
Generator "KVA"	4021	
Reason For Use		**Comments**
Testing	✓	Weekly
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered	N/A	
Fuel Level 1/4 | 1/2 | 3/4 | F	78%	
Sulfur Concentrations <0.0015% (1Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.571/h) of load approximately.

ABENGOA

Emergency Diesel Generator Weekly Test Log

Plant: Beta		Date: 4/1/18
Operator: Rico		
Main Generator Breaker		**Comments**
Open		
Closed		
Engine		**Comments**
Start Time:	~~7:30pm~~	7:30pm
Stop Time:	7:40pm	
Total Run Time:	10Min	
Starting Hour Meter Reading	400.3	
Monthly Fuel Consumption(gal)		
Oil Level	✓	
Coolant. Level	✓	Coolant Temp. @ Start 56 *c Finish=\(c •c
Belt Condition	✓	
Oil Pressure	✓	Start = 7.5 bar Finish={o, bar
Battery_Condition	✓	
Battery Voltage	26.7	
Engine RPMs	1800	
Generator		**Comments**
Generator Volts	4.16	
Generator Amps	0272	
Generator "KVA"	4.18	
Reason For Use		**Comments**
Testing	✓	Weekly
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 (431.571/h) of load approximately.

ABENGOA

Emergency Diesel Generator Weekly Test Log

Plant: Beta		Date: 3-24-18	
Operator: Shell			
Main Generator Breaker		**Comments**	
Open	X		
Closed			
Engine		**Comments**	
Start Time:	s,C,.J		
Stop Time:	2.,3} I		
Total Run Time:	/Om/'7,		
Starting Hour Meter Reading	""(Oq. 2		
Monthly Fuel Consumptlon(gal}			
Oil Level	good		
Coolan_ Level	Good	Coolant Temp. @ Start t) •c	Finish= '(5 •c
Belt Condition	good		
Oil Pressure	-	Start= 8 ,3 bar	Finish=4. bar
Battery Condition	good		
Battery Voltage	Z<..,		
Engine RPMs			
Generator		**Comments**	
Generator Volts			
Generator Amps			
Generator "KVA"			
Reason For Use		**Comments**	
Testing	X		
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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late: Fuel consumption 114.01 gal/h (431.571/h) of load approximately.

DL

ABENGOA

Emergency Diesel Genf;!rator Weekly Test Log

Plant: B"e.t			Date: 3-17 18
Operator: S. \.\			
Main Generator Breaker			**Comments**
Open	X		TESTING
Closed	X		NORMAL OPS (STAND BY)
Engine			**Comments**
Start Time:	02 00		
Stop Time:	0210		
Total Run Time:	10 min		
Starting Hour eter Reading	900.0		
Monthly Fuel Consumption(gal)	—		
Oil Level	Normal		
Coolant. Level	Normal	Coolant Temp. @ Start 5\o •c	Finish= 75•c
Belt Condition	Good		
Oil Ptessure		Start = •/ bar	Finish= <o bar
Battery Condition	Good		
Battery Voltage		26.7	
Engine RPMs		1800	
Generator			**Comments**
Generator Volts	4.17		
Generator Amps	N/A		
Generator "KVA"	N/A		
Reason For Use			**Comments**
Testing	X		
Emergency	—		
Maintenance	—		
Generator			**Comments**
Fuel Delivered		N/A	
Fuel Level 1/4 1/2 3/4 F		78%	
Sulfur Concentrations <0.0015% (lSppm}			

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Note: Fue) consumption 114.01 gal/h (431.S7 l/h) of load approximately.

04

ABENGOA

Emergency Diesel Generator Weekly Test Log

Plant: Beta

Date: 3/20/18

Operator: Rico

Main Generator Breaker		Comments
Open		
Closed	✓	
Engine		**Comments**
Start Time:	6:33pm	
Stop Time:	6:43 pm	
Total Run Time:	10 Min	
Starting Hour Meter Reading	349.8	
Monthly Fuel Consumption(gal)		
Oil Level	good	
Coolant. Level		Coolant Temp. @ Start 57 *c Finish= 76 *c
Belt Condition	good	
Oil Pressure		Start =,,<i; bar Finish=Co_ bar
Battery Condition	good	
Battery Voltage	26.6	
Engine RPMs	1800	
Generator		**Comments**
Generator Volts	4.13	
Generator Amps	0264	
Generator "KVA"	1730	
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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(<t Fuel consumption 114.01 gal/h (431.571/h) of load approximately.

ABENGOA

Emergency Diesel Generator Weekly Test Log

Plant: £ Date: 3(2-1

Operator: b--K!-ctA

Main Generator Breaker		Comments
Open	../	
Closed		
Engine		**Comment,s**
Start Time:	;)', (JO	
Stop Time:	0).-·. \f\	
Total Run Time:	\u -\s,	
Starting Hour Meter Reading	30 .-]	
Monthly Fuel Consumption(gal)	t'f.	
Oil Level	Gmd>	
Coolant Level	Clr.nc\	Coolant Temp. @ Startj)f •c Finish=l'('*c
Belt Condition	Goo cl	
Oil Pressure	r rr0c[	Start= t).1Jbar Finish=l .f bar
Battery Condition	C era<)	
Battery Voltage	;;2 (p, 3	
ine RPMs	\80(-)	
Generator		**Comments·**
Generator Volts	4 .. lrJ	
Generator Amps	/J...	
Generator "KVA"	""\-n....l\	
Reasan For Use		**Comments**
Testing	V	
Emergency	I'	
Maintenance	H1	
Generator		**Cemments**
Fuel Delivered	O	
Fuel Level [1/4 [1/2 1(3/4)1F	1"8	
Sulfur Concentrations <0.0015% (ISppm)	O/	

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 SO 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 ga1/h (431.571/h) of load approximately.

ABENGOA

Emergency Di◆sel (ienerator Weekly Test Log

Plant: VAQ

Date: I ;) . - ';1 → ((

Operator: $: (◆L◆ q

Main Generator Breaker		.G()mments
Open	X	
Closed		
Engine		**.C<Jmments**
Start Time:	() ')..lei,	
Stop Time:	rj Jr : - I	
Total Run Time:	C ,,1,'11.	
Starting Hour Meter Reading	i-12 ,0	
Monthly Fuel Consumption(gal)		
Oil Level	d	
Coolant Level	Ci-₀ .. lt	Coolant Temp. @ Start S5 *c Finish= t,o*c
Belt Condition	(;.... ":. '0	
Oil Pressure		Start= 1,7 bar Finish= ?•I bar
Battery Condition	G i.,J	
Battery Voltage	,,•	
i=rigine RPMs	dO:)	
Generator		**Comments**
Generator Volts	N/7\	
Generator Amps		
Generator "KVA"		
Reason For Use		**Comments**
Testing	'x	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered	NO	
Fuel Level [1/4 [1/2 [3/4 [F	;f,	
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.571/h) of load approximately.

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Emergency Diesel Generator11Weekly Test log

Plant: R.P.fn Date: -2/1-,j?

Opera1o r / UJ f1'1f

Main Gener·citor Breaker		Comments
Open	✓	
Closed		
Engine		**Comments**
Start Time:	7J	
Stop Time:	?1 1"L	
Total Run Time:		
Starting Hour Meter Reading		
Monthly Fuel Consumption(gal)		
Oil level		
Coolant level		Coolant Temp. @ Startc;-J *c Finish=.f"Z *c
Belt Condition		
Oil Pressure		Start "1 bar **Finish=o·,5** bar
Battery Condition		
Battery Voltage		
I:ngine RPMs		
Generator		**Comments**
Generator Volts		
Generator Amps		
Generator "KVA"		
Reason For Use		**Comments**
Testing		
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level J 1/4 I 1/2 [3/4 [F		
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.57 1/h) of load approximately.

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Emergency Diesel Generator Weekly Test Log

Plant, Date:

Operator:

Main Generator Breaker		'Comments
Open		
Closed		
Engine		**Comments**
Start Time:		
Stop Time:		
Total Run Time:		
Starting Hour Meter Reading		
Monthly Fuel Consumption(gal)		
Oil Level		
Coolant Level		Coolant Temp.@ Start *c Finish= *c
Belt Condition		
Oil Pressure		Start = bar Finish: bar
Battery Condition		
Battery Voltage		
Engine RPMs		
Generator		**Comments**
Generator Volts		
Generator Amps		
Generator "KVA"		
Reason for Use		**Comment**
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 (431.571/h) of load approximately.

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Emergency Diesel Generator Weekly Test Log

Plant: C0lp

Date: 12-fl /7

Operator: VOi VJ5 n ""Ja

Main Ge.oera.."ter Breaker		C:on\11J•nts
Ooen		
Closed	V	
Engine		<!om""""-
Start Time:	f) "57 q	t
Stoo Time:	r, j 3	
Total Run Time:	fr	ft_ '
Starting Hour Meter Reading		
Monthly Fuel Consumption(gal)		
Oil Level	V	
Coolant Level	V	Coolant Temp. @ Stal'lb. / *c Finish=1,'7*c 7 3
Belt Condition	V	
Oil Pressure		Start =◆7 bar bar
Battery Condition		inish=7
Batterv Voltage	-J1'1n,Dt	
Jine RPMs	1	
Generator		**Cf,nrilents**
Generator Volts		
Generator Amps		
Generator "KVA"		
Reason For Use		**ciimm4!nU**
Testing	1/	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level 1/4 r 1/2 3/4 F		
Sulfur Concentrations <0.0015% (1 Sppm)		

This Emergency Generator shall be limited to use for emergency powel\¥5 defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shaH be operated no "8re than 30◆utes 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 1/h) of load approximately.

ABENGOA

Emergency Diesel Generator Weekly Jest Log

Plant: 3,1!-t c. Date: I :l. ,CZi l

Operator: SL:J

Main Geoe,ator Br,eaker		.Comments
Open	X	
Closed		
Engine		**Comments**
Start Time:	;:/ SJ	
Stop Time:	Jjt;5	
Total Run Time:	5 1;1,'1	
Starting Hour Meter Reading	J1315	
Monthly Fuel Consumption(gal)		
Oil Level	;V	
Coolant Level	Def	Coolant Temp. @ Start 51 *c Finish= 73 *c
Belt Condition	0 ▷ ,J	
Oil Pressure		Start= i ,j bar Finish= .<J bar
Battery Condition	Goocll	
Battery Voltage	2t .7	
engine RPMs	/'i:oo	
Generator		**Comments**
Generator Volts		
Generator Amps		
Generator "KVA"		
Reason For Use		**Comments**
Testing	K	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level [1/4 [1/2 [3/4 [F	9%	
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.571/h) of load approximately.

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Mojave Solar, LLC

Emergency Diesel Generator Weekly Test Log

Plant *p k f 1-4,* Date: /;)..-·'-I-17

Operator: s t,,J(

Main Generator Breaker		Comments
Open	)(	
Closed		
Engine		**Comments**
Start Time:	*I&I<,*	
Stop Time:	*I$."i I*	
Total Run Time:	*S m:11*	
Starting Hour Meter Reading	*:?"* 0	
Monthly Fuel Consumption(gal)		
Oil Level	G.!:;)ocil	
Coolant Level	(loocV	Coolant Temp. @ Start 5 *c Finish= q- *c
Belt Condition	(µ:,c::,d)	
Oil Pressure		Start= 7.9 bar Finish , 1 bar
Battery Condition	Gc:,0<"()	
Battery Voltage	" g	
,gine RPMs	, g OO	
Generator		**Comments**
Generator Volts		
Generator Amps		
Generator "KVA"		
Reason For Use		**Comments**
Testing	«	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered	*88 ?,,*	
Fuel Level | 1/4 | 1/2 | 3/4 | F		
Sulfur Concentrations <0.0015% (1 Sppm)		

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 fs 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 (431.571/h) of load approximately.

ABENGOA

Emergency Diesel Generator Weekly Test Log

Plant: ,4/(Jh1 Date: U-'JP-17

Operator: &, ; '|

Main Generator -„eaker		(?omm€nts
Open	., /	
Closed		
Engine		**Comments**
Start Time:	5	
Stop Time:	Alv?..	
Total Run Time:	fd Nl:ri	
Starting Hour Meter Reading	.Q'1	ervt!r<. :, g-<to"
Monthly Fuel Consumption(gal)		
Oil Level	Ga,./	
Coolant Level	'o..J	Coolant Temp. @ Start{, 1 *c Finish= 7 [, *c
Belt Condition	Guurl._	
Oil Pressure		Start =<7.o bar Finish=(..7 bar
Battery Condition	GufJ rl_	
Battery Voltage	—	
gine RPMs	18oo RPM	
G ner.ator		**Comments**
Generator Volts	Lf. I(,	
Generator Amps	(; . ?11	
Generator "KVA"	Jk,}	
Reason For Use		**Comm€mts**
Testing	. /	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level [1/4] 1/2] 3/4] F		
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.57 1/h} of load approximately.

ABENGOA

Emergency Diesel Generator Weeidy◆test Log

Plant:		Date: 14
Operator:		
◆Main Generator Breaker		**Comments**
Open		
Closed		
Engine		**Comme◆**
Start Time:	1'Jo	
Stop Time:	1'C) bM	
Total Run Time:	1() M,N	
Starting Hour Meter Reading	3	
Monthly Fuel Consumption(gal)		
Oil Level		
Coolant Level		Coolant Temp. @ Start '5'1, *c Finish="l 1 *c
Belt Condition		
Oil Pressure		Start= '1."9;' bar Finish=L>,1 bar
Battery Condition		
Battery Voltage	;).1.0	
engine RPMs		
Generator		**Comments**
Generator Volts		
Generator Amps	()d5b	
Generator "KVA"		
Reason For Use		**Comnrents**
Testing		
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level [1/4] [1/2] [3/4] [F]		
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.571/h) of load approximately.

ABENGOA

Emergency Diesel Generator Weekly Test Log

Plant: A\ohtA Date: fl J -/7

Operator: TY\ - LJ;IA tr,,,

IMain Generator Breaker		q€an,nents
Open	./	
Closed		
Enaine		**Comments**
Start Time:	(!)G,I	
Stop Time:	Ol.1'l	
Total Run Time:	15 M.11\	
Starting Hour Meter Reading	P-i .(,,	
Monthly Fuel Consumption(gal)	S.	
Oil Level	/	
Coolant Level	./	Coolant Temp.@ Start I, I *c Finish= 71 *c
Belt Condition	/	
Oil Pressure	/	Start = A · bar Finish=. 7oar
Battery Condition	/	
Battery Voltage	J7.9..	
Jaine RPMs	le,00	
Generator		**Comments**
Generator Volts	y.,,,	
Generator Amps	tJIP..	
Generator "KVA"	N/A	
Reason Fe>rUs,e		**Comments**
Testing	J	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered	/Jo	
Fuel Level [1/4] [1/2] [3/4] [F]	Be>'!,	
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.S7 1/h} of load approximately.

ABENGOA

Emergency Diesel Generator Weekly Jest Log

Plant 'g ,_., Q — Date: . i - , - r - 1 1

Operator: Sh ,1

Main Genetater Bre,ker		Comments
Open	X	
Closed		
Engine		**comments**
Start Time:	1$SS	
Stop Time:	i 9 DO	
Total Run Time:	S "11;"1	
Starting Hour Meter Reading	.3q3.1	1.J'nr. Half. M e h. J93
Monthly Fuel Consumption(gal)		
Oil Level		0 (: ,' <1.\- } t!. '> Yle.,
Coolant Level		Coolant Temp. @ Start 5 *c Finish= a,- *c
Belt Condition	Geiod	
Oil Pressure	8 Ii	Start= 8 ,/ bar Finish= t, ,2 bar
Battery Condition	Q..ood	
Battery Voltage	-	
c gine RPMs	I 1 'I	
Generator		**Comments**
Generator Volts		
Generator Amps		
Generator "KVA"		
Reason For Use		**Comments'**
Testing	X	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered	I\)	
Fuel Level | 1/4 | 1/2 | 3/4 | F	C\0 o/o	
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.571/h) of load approximately.

ABENGOA

Emergency Diesel Generator Weekly Test Log

Plant: Al"hO'\ Date: fl-JA-17

Operator: 'M e r 'tb111

MaiQ G◆eFator treaker		<iom.◆en:ts
Open	./	
Closed		
Engine		**Comments**
Start Time:	11'J.n	
Stop Time:	18.5	
Total Run Time:	f5 M;n.	
Starting Hour Meter Reading	P.R.o	C..
Monthly Fuel Consumption(gal)		
Oil Level	./	
Coolant Level	I	Coolant Temp. @ Start 5 - *c Finish= 7. *c
Belt Condition	/	
Oil Pressure	/	Start= 7 fi bar Finish=6.8 bar
Battery Condition	7	
Battery Voltage	11 '>	
gine RPMs	I	
Generator		**Comments**
Generator Volts	U t·l	
Generator Amps	0	
Generator "KVA"	a	
Re.ason For Use'		**Comments**
Testing	7	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered	N	
Fuel Level I 1/4 I 1/2 I 3/4 I F	Q.J.	
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.57 1/h) of load approximately.

ABENGOA

Emergency Diesel Generator Weekly Test Log		
Plant: JS		Date: \I ((c./ Z⊳,7
Operator: H A ŧJU-l;"L Gc._.,- .o..		
Main Generator Breaker		**Comments**
Open	/	
Closed		
Engine		**Comments**
Start Time:	-4-	
Stop Time:	g:s-8'	
Total Run Time:	ID i-'\IN_)	
Starting Hour Meter Reading	?Yt.?.G}	5-ro O 1 , 1-ir ..;-12 M 13 \
Monthly Fuel Consumption(gal)	[illegible]	
Oil Level	ho-d	
Coolant Level	/	Coolant Temp. @Start 59 *c Finish= '-7< *c
Belt Condition	(;.crod	
Oil Pressure	r .,-W	Start= ()..() bar Finish= --f bar
Battery Condition	6.oo J;J	
Battery Voltage	?(o.1	
,gine RPMs	1 CO	
Generator		**Comments**
Generator Volts	4 ,f4	
Generator Amps	--::)	
Generator "KVA"	4-02-1	
Reason For Use		**Comments**
Testing	/'	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered	IJO	
Fuel Level | 1/4 | 1/2 | 3/4(|) F	°l'D° ID	
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.57 1/h) of load approximately.

\J

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Emergency Diesel Generator Weekly Test Log

Plant: AlAha

Date: 11-1-11

Operator:

Main Gene, tor B.reaker		<io 'l' {l\e 1,1s
Open	./	
Closed		
Engine		**·comments**
Start Time:	1755	
Stop Time:	1(<=iO	
Total Run Time:	l!Jhl,ne.i	
Starting Hour Meter Reading	B.(	ie.3 !rl.
Monthly Fuel Consumption(gal)		
Oil Level	v'	
Coolant Level		Coolant Temp. @ Start 5C., *c Finish=i._ *c
Belt Condition	,/	
Oil Pressure		Start = 7, G bar Finish=t,, (,., bar
Battery Condition	/	
Batterv Voltage	.11.5	
gine RPMs	IRC>0	
Generator		**Comments**
Generator Volts	,.,1a	
Generator Amps		
Generator "KVA"	-	
Reason For Use		**Comments**
Testing	V	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered	No	
Fuel Level [1/4] 112] 3/4] F	R i',	
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.571/h) of load approximately.

ABENGOA

NORTH AMERICA

Operator(s): sk1/ 1/J'-A tl4'c (-flflL

Date: 11- a -(7

Emergency Diesel Generator Bi-Hourly Readings

Time Of Reading	Oil Pressure	Gen. Voltage	Engine RPM	Coolant Temp. °c	Fuel Level	Hour Meter	Oil Temp	Gen. KWH	BTT
{301	"' S	·:-II	lO<::)	oc	" ' o£	S"-· S	. '" c.	g B'f	'127.11
('f03	G,S	4, I?,	J7'19	,7°c	<-f0	31, <o	;,, c	J	J-7,0
rs 2-0	•'i	¥-,17	tiC\	,'&	Ts, I bl...:,	-:9	7(	111	bt.1,o '
/loO bl	.'I	4.(	/S-DO	;7	41 %	3(oq_5	76	1 9	7.a
)70'1	'1·=(	,fd3	17qq	·la	S't"k	tf7O.	7	/08J_	:,?, I)
I'x'I D	(,,.Li	"I II	JR-/9)	77	<7'l°V	If	<....	q//)	:).7.i
?o, r'>	(,..Li	d1 '7_	!Ko-0	77	sv'o/'n	?,7,?,_7	,-I'.,	4-,	21.i
Z1 '/")	(n '-/-	4..	/,CJ q	7/..:	<;"Ji	-f/\ 7	—x-	999	:I-7.J
OOID	fr.."-	L,t	1Rt"i?)	rL	4(	77.7	'7ci..	c1, 2-	:!1..'1,'
I\..:>t0	/\-....	..w.(2::,	1 t:1Y.h	-..	4-c-z:iY		... r:::	C77	117.J
D'-ID	lo-LJ	-?1.1.u	,	"?1.	-+t	81-Ct?	7.C-	qc,'	fil./")
0600	6·ir	Jt "-'-	14....	ii-	cr::	"B3.ti	i fr"	"i:r'tO	:1..,o
r11\\.;--	c:..:4-	4.\"'<	1i7) t	...,	=S,	'1$5:	.,.)	'{7	1-:J
TD·ID	C.. 3	IL I/"	1')Do	.7	c;y.::	I-,	-,	'?5,	9-,,l
1S"Zo	h-4,	U>U;'	fC.o e,	-,-,	-it.,	°12:=t	)(_	i:;r-	Z'/.1

Comments: R)py /{" uLl(0900 90%,

ABENGOA

Emergency Diesel Generator Weekly Test Log

Plant: ftlp

Date: lt-'f- /'7

Operator: Sc ...d

Main Generator Breaker		Comments
Open		
Closed		
Engine		**Comments**
Start Time:		
Stop Time:		
Total Run Time:		
Starting Hour Meter Reading		
Monthly Fuel Consumption(gal)		
Oil Level		
Coolant Level		Coolant Temp.@ Start *c Finish= *c
Belt Condition		
Oil Pressure		Start= bar Finish= bar
Battery Condition		
Battery Voltage		
gine RPMs		
Generator		**Comments**
Generator Volts		
Generator Amps		
Generator "KVA"		
Reason For Use		**Comments**
Testing		
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered	1oQx)	
Fuel Level 1/4 1/2 3/4 F		
Sulfur Concentrations <0.0015% (1 Sppm)		

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 exduding 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 utflity 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 (431.571/h) of load approximately.

ABENGOA

Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: 6 Date: // 4--I,

Operator: 'PHu.....

Main Generator Breaker		Comments
Open		
Closed		
Engine		**Comments**
Start Time:		
Stop Time:		
Total Run Time:		
Starting Hour Meter Reading		
Monthly Fuel Consumption(gal)		
Oil Level		
Coolant Level		Coolant Temp. @ Start *c Finish= *c
Belt Condition		
Oil Pressure		Start= bar Finish= bar
Battery Condition		
Battery Voltage		
'lgine RPMs		
Generator		**Comments**
Generator Volts		
Generator Amps		
Generator "KVA"		
Reason For Use		**Comments**
Testing		
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered	LJ..t:;J;Ob,Pr/ -L_11A.')	oeuvd21:::fl { oCfn
Fuel Level I 1/4 I 1/2 I 3/4 IN	'10-/6	
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.571/h) of load approximately.

ABENGOA

Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: :Ix tq   Date: 1/- -/7

Operator: $ I / "f)H H..---

Main Generate* Breaker		Comments
Open	ct, 2D	
Closed	JJ:S	s nchroh,'<J
Engine		**Comments**
Start Time:	,yg	
Stop Time:	\	
Total Run Time:	%J"1	
Starting Hour Meter Reading	3t..k. 3	tPJ.JO· 'f, 'L..9
Monthly Fuel Consumption(gal)		
Oil Level	aovd	
Coolant Level	Oood	Coolant Temp. @ Start 7 *c Finish=l S - * c
Belt Condition	&ooJ	
Oil Pressure		Start= , .3 bar Finish= l:,.t,. bar
Battery Condition	G-ooJ	
Battery Voltage	:u. !5	
ri gine RPMs	LZoo	
Generator		**Comments**
Generator Volts	4I(; O	
Generator Amps	rll	
Generator "KVA"	l,3	
Reason For Use		**Comments**
Testing		
Emergency	'X	r:.G-o./.c,r'.-Mei" J-es:rf-/...o
Maintenance		
Generator		**Comments**
Fuel Delivered	..,,,,,-	o9c:.O -11- -Lr '1d7o
Fuel Level J 1/4 | 1/2 | 3/4 | F	loto%	
Sulfur Concentrations <0.0015% (1 Sppm)	4l"	'1-, ?,10 ·r, 6 ,,1l4.-. OltJ hJ L J

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Note: Fuel consumption 114.01 gal/h (431.57 1/h) of load approximately.

ABENGOA

Emergency Diesel Generator Weekly Test Log

Plant: A [Ph

Date: lo ,,]() -I 7

Operator: tZ&r Mvrh 5

Milin Gene◆o_r Breaker		Ctorp111,e1:1ts
Open	>-.	
Closed		
Engine		**Co.mments**
Start Time:	C) 1f 6	
Stop Time:	o i, z&	
Total Run Time:	(oM;'1	
Starting Hour Meter Reading	8-7, ?A	£rid.'r..c g-g-{J,
Monthly Fuel Consumption(gal)		
Oil Level	bfh7 rf	
Coolant Level	G()()£	Coolant Temp. @Start () *c Finish=75 *c
Belt Condition	6-tJrJr:{	
Oil Pressure		Start= C) bar Finish=(•./h bar
Battery Condition	voov{	
Battery Voltage	A(„ q	
:ngine RPMs	10>0	
Generator		**Comments**
Generator Volts	4.1L/Jtv	
Generator Amps		
Generator "KVA"		
Reason For Use		**Comm,nts**
Testing	.>.:	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel level [1/4 [1/2 [3/4 [F	(o'l.%	
Sulfur Concentrations <0.0015% (15ppm)		

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Note: Fuel consumption 114.01 gal/h (431.571/h) of load approximately.

ABENGOA

Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant:'12:> Date: /0 {-z.w {wc1

Operator:

Main Generator dreaker		Comments
Open	V.	
Closed		
Engine		**Comments**
Start Time:		
Stop Time:	'71 \4	
Total Run Time:	\o MIN	
Starting Hour Meter Reading		
Monthly Fuel Consumption(gal)		
Oil Level		
Coolant Level		Coolant Temp.@ Start S *c Finish= *c
Belt Condition		
Oil Pressure		Start= 0-0 bar Finish=w.1 bar
Battery Condition	(\Ob!)	
Battery Voltage		
Engine RPMs	18DD	
Generator		**Comments**
Generator Volts	4.\4,.	
Generator Amps		
Generator "KVA"		
Reason For Use		**Comments**
Testing	/	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level 1/4 I 112 3/4 F	(/)1d/n	
Sulfur Concentrations <0.0015% (15ppm)		

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Note: Fuel consumption 114.01 gal/h (431.57 1/h) of load approximately.

ABENGOA

Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: Date: \o) "L-i...../, 1

Operator:

Main Generator Breaker		Comments
Open	v'''	
Closed		
Engine		**Comments**
Start Time:	!9/;g	
Stop Time:	/1/3	
Total Run Time:		
Starting Hour Meter Reading	K 7, t	
Monthly Fuel Consumption(gal)	f,z:;,	
Oil Level		
Coolant Level		Coolant Temp. @ Start hff(*c Finish= 7 s *c
Belt Condition	o c,J.	
Oil Pressure		Start= l, q bar Finish=6- 6 bar
Battery Condition	lcc-J	
Battery Voltage	'1.7.1/	
Engine RPMs	/f)c.c.	
Generator		**Comments**
Generator Volts	l\ o ; 7	
Generator Amps		
Generator "KVA"		
Reason For Use		**Comments**
Testing	j/	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level [1/4 [1/2 [3/4 [F	I/-:,	
Sulfur Concentrations <0.0015% (1 Sppm)		

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Note: Fuel consumption 114.01 gal/h (431.57 1/h) of load approximately.

Diesel Generator Weekly Test Log

. fant: Beta

Date: i{> _ 2,.2- ·-/7

Operator: C it /8 b .Si, , vd

Main Generator Breaker		Comments
Open		
Closed	./	
Engine		**Comments**
Start Time:	n4r;'fl	
Stop Time:		
Total Run Time:		
Starting Hour Meter Reading		
Ending Hour Meter Reading		
Oil Level		
Coolant Level		Coolant Temp. @ Start, *c Finish=7v, *c
Belt Condition		
Oil Pressure		Start bar Finish= bar
Battery Condition		
Battery Voltage	U 7 (n	
Engine RPMs		
Generator		**Comments**
.1enerator Volts		
Generator Amps		
Generator "KVA"		
Reason For Use	/	**Comments**
Testing	V	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level ⌈ 1/4 ⌈ 1/2 ⌈ 3/4 ⌈ F	(11? C76	
Sulfur Concentrations <0.0015% (ISppm)		

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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Diesel Generator Weekly Test Log

ant: Alo

Date: ID /6-17

Operator: ' rv\·, 1-,1vrtl)v1

Main Generator Breaker		1G.Ol'\\lrtet1'tS
Open	/	
Closed		
Enalne		**om enls**
Start Time:	'Jf\'Y1	
Stop Time:	1 0 ,	
Total Run Time:	16 n,\ft1€,	
Starting Hour Meter Reading	'A1.?>	
Ending Hour Meter Reading	fo1.{i'J	
Oil Level	Monna(	
Coolant Level	frMn	Coolant Temp. @ Start57 *c Finish= 7!J*c
Belt Condition	o(	
Oil Pressure		Start= 7 .1=) bar Finish= . C:.bar
Battery Condition		
Battery Voltage		
Engine RPMs	jcgoQ	
Geqer_at&		**Coml'!,lenj_s**
!nerator Volts	tl'o	
Generator Amps	(i)	
Generator "KVA"	O	
Reaso& For Use		**(Gmments**
Testing	J	
Emergency		
Maintenance		
Generator		**C&rnmi&1ts**
Fuel Delivered	NO	
Fuel Level 1/4 1/2 3/4 F	G/J..'I'	
-Sulfur Concentrations <0.0015% (15ppm)		

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Diesel Generator Weekly Test Log

Plant: Beta Date: , C>- , 3 I 7

Operator: { Jw,1

Main Generator Breaker		Comments
Open	X	
Closed		
Engine		**Comments**
Start Time:	'$ ÷ f>	
Stop Time:	J<t: o 3	
Total Run Time:	6 yyij '()	
Starting Hour Meter Reading	365,Jf	
Ending Hour Meter Reading	J t;S s	
Oil Level	G - o o, J	
Coolant Level	G,,i:;,od..	Coolant Temp.@ Start S *c Finish= J(; *c
Belt Condition	@,>od	
Oil Pressure	,7	Start = r . bar Finish= 7 S bar
Battery Condition	G-	
Battery Voltage	:J_1, S	
Engine RPMs	,..., q q/, b	
Generator		**Comments**
Generator Volts		
Generator Amps		
Generator "KYA"		
Reason For Use		**Comments**
Testing	X	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered	rJo	
Fuel Level | 1/4 | 1/2 | 3/4 | F	t:o7%	
Sulfur Concentrations <0.0015% (15ppm)		

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Diesel Generator Weekly Test Log

Plant: Beta	Date: 10-7-1
Operator: [illegible]	

Main Generator Breaker		Comments
Open	X	
Closed		
Engine		**Comments**
Start Time:	03 [illegible]	
Stop Time:	[illegible] 31 [illegible]	
Total Run Time:	5 Min	
Starting Hour Meter Reading	[illegible]	
Ending Hour Meter Reading	[illegible]	
Oil Level	Good	
Coolant Level	Good	Coolant Temp. @ Start [illegible] *c Finish= [illegible] *c
Belt Condition	Good	
Oil Pressure		Start= [illegible] bar Finish= [illegible] bar
Battery Condition	Good	
Battery Voltage	[illegible]	
EngineRPMs	[illegible]	
Generator		**Comments**
Generator Volts	[illegible]	
Generator Amps	[illegible]	
Generator "KVA"		
Reason for Use		**Comments**
Testing	X	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered	[illegible]	
Fuel Level | 1/4 | 1/2 | 3/4 | F	[illegible]	
Sulfur Concentrations <0.0015% (15ppm)	[illegible]	[illegible]

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Diesel Generator Weekly Test Log

mt: Date: ltJ s-17

Operator:

Main Generator Breaker		Comments
Open	./	
Closed		
Enalne		**Comments**
Start Time:	1..!1. I)\15	
Stop Time:	:J0.210	
Total Run Time:	15.-:&_	
Starting Hour Meter Reading	1.1	
Ending Hour Meter Reading	81.3	
Oil Level		
Coolant Level		Coolant Temp. @ Start 7t{ *c Finish= 1, *c
Belt Condition	Nor,	
Oil Pressure	1.	Start= 1.3 bar Finish='4 bar
Battery Condition		
Battery Voltage	11.	
EngineRPMs	,	
Gene_rt.r		**G.omments,**
nerator Volts	'". /7	
uenerator Amps	O	
Generator "KVA"	C)	
Reason F.or Use		**Comments**
Testing	/	
Emergency		
Maintenance		
Generator		**t_:nq,,nJs**
Fuel Delivered		
Fuel Level 1/4 1/2 3/4 F	(Lj 3. f	
Sulfur Concentrations <0.0015% (15ppm)		

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CJ

Diesel Generator Weekly Test Log

. Jant: Beta

Date: g l.n l l'l

Operator: ,c..o \

Main Generator Breaker		Comments
Open		
Closed	v	
Engine		**Comments**
Start Time:	1 1'\h ffM	
Stop Time:	"\•,lb ,M	
Total Run Time:	ID M:tJ	
Starting Hour Meter Reading	31oS,	
Ending Hour Meter Reading	L'_\.3	
Oil Level	l-lmol	
Coolant Level	tJN?nlll	Coolant Temp. @ StartS1 *c Finish="l<,, *c
Belt Condition	l\\rtl (nl\l	
Oil Pressure	NPMN	Start= J. bar Finish=fa.'I bar
Battery Condition	1\l'"'"'1\I	
Battery Voltage	1o.q	
Engine RPMs	1'6cD	
Generator		**Comments**
jenerator Volts	!}"\-n	
Generator Amps	f) q:).	
Generator "KVA"	LL\S	
Reason For Use		**Comments**
Testing	/	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level | 1/4 | 1/2 | 3/4 | F	6 , ·,	
Sulfur Concentrations <0.0015% (I5ppm)		

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Mojave Solar LLC

Diesel Generator Weekly Test Log

""?lant: Av:::,¥ Date: 1/2-7:, /17

""Operator: Lo\\n AY0e:' or,

Main Generator Breaker		r,omn.terit,
Open	—	
Closed		
Engine		**t?Qmrnenu**
Start Time:	?L-77	
Stop Time:	'2'2.-7 'L	
Total Run Time:	I c; .J.i;nc.Hc:5	
Starting Hour Meter Reading	fb[	
Ending Hour Meter Reading	g7 .J	
Oil Level	)JC'la?tI	
Coolant Level	.v:>(1MI	Coolant Temp. @ Start S'1 *c Finish=75*c
Belt Condition	G&'oA	
Oil Pressure	.U.0fvvLAI	Start= 7-;, bar Finish= &· bar
Battery Condition	&ooJ	
Battery Voltage	:? 75	
EngineRPMs	I 8£Jo	
Geqer_aJp,r		**1:omrrients**
3enerator Volts	'-/. / 7	
)nerator Amps		
Generator "KVA"		
,fleason F@r 0$e		**C_pmments**
Testing	V	
Emergency		
Maintenance		
(jener:ator		**◆◆r:n_m◆e**
Fuel Delivered		
Fuel Level I 1/4 I 111.(J) 3/4 I F	2-/	
Sulfur Concentrations <0.0015% (15ppm)		

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Diesel Generator Weekly Test Log

Plant: PPla

Date: q/;p./1,

Operator: 14

Main Generator Breaker		Comments
Open		
Closed	v	
Engine		**Comments**
Start Time:	I0!D1 DM	
Stop Time:	tn: n pM	
Total Run Time:	\0 Mil\	
Starting Hour Meter Reading	3(oS,D	
Ending Hour Meter Reading	los.;1	
Oil Level		
Coolant Level		Coolant Temp. @ Start l.?>*c Finish::!"\ 14.*c
Belt Condition		
Oil Pressure	t-loemAl	Start = f, L\ bar Finish='1, \ bar
Battery Condition	Nro""l\\	
Battery Voltage	:ll–.	
Engine RPMs	\"fl r n n -"M	
Generator		**Comments**
Generator Volts	4,11	
Generator Amps	b"l_	
Generator "KVA"	JJ10	
Reason For Use		**Comments**
Testing	1.T?e.t\	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level ⌊ 1/4 ⌊ 1/2 ⌊ 3/4 ⌊ F	1o1 %	Cl.Pfl \"\t'|
Sulfur Concentrations <0.0015% (15ppm)		

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Diesel Generator Weekly Test Log

Plant: Beta

Date: 1 / 11

Operator:

Main Generator Breaker		Comments
Open		
Closed	✓	
Engine		**Comments**
Start Time:		
Stop Time:		
Total Run Time:	10 M	
Starting Hour Meter Reading		
Ending Hour Meter Reading		
Oil Level	- /	
Coolant Level	✓	Coolant Temp. @ Start 51 °c Finish= 110 °c
Belt Condition	✓	
Oil Pressure	✓	Start= 1, 1 bar Finish 1 bar
Battery Condition	✓	
Battery Voltage	/ 24.9	
Engine RPMs	1800	
Generator		**Comments**
Jenerator Volts		
Generator Amps	613	
Generator "KVA"	. 1L,	
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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Diesel Generator Weekly Test Log

dant: Beta Date: ?t:i, I1'1

Operator: 1 C o

Main Generator Breaker		Comments
Open		
Closed	v	
Enalne		**Comments**
Start Time:	1 :. I'WI	
Stop Time:	'"\ '.I_ \ IM.	
Total Run Time:	IDt'\:n	
Starting Hour Meter Reading	3Y!. y	
Ending Hour Meter Reading	3 Y i. L	
Oil Level	MNffl{\l	
Coolant Level	NriJMAL	Coolant Temp. @ Start 5(o *c Finish= 11&*c
Belt Condition	t-J Al	
Oil Pe ssure	I\\N! Mdl	Start= O, D bar Finish=la,S bar
Battery Condition	MNMA.\	
Battery Voltage	.:). ,C\	
Engine RPMs	ti()n	
Generator		**Comments**
Generator Volts	'1.\L..	
Generator Amps	O4'\'1	
Generator "KVA"	3\<c;o	
Reason For Use		**Comments**
Testing	/	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level 1/4 1/2 3/4	\Oo'i	
Sulfur Concentrations <0.0015% (15ppm)		iL i (\ Ci-:-H\

This Emergency Generator shall be limited to use for emer¥ ncy 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 Emer¥ ncy use.

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Diesel Generator Weekly Test Log

,mt: Rt:1-ln		Date: C[-Jq-/7
Operator: ()_/\		
Main Genefafor Breaker		**Comments**
Open t*JritA		
Closed r		
Enalne		**Comments**
Start Time:	'(\	
Stop Time:	t	
Total Run Time:	>	
Starting Hour Meter Reading	1fJ.1	
Ending Hour Meter Reading	"1(' ()	
Oil Level	nf}ffyU	
Coolant Level	,h N'\-)	Coolant Temp. @ Sta *c Finish=?/ *c
Belt Condition	[illegible]	
Oil Pressure	T/r;.=0	Start =75, J bar Finish bar
Battery Condition	.2't.f.	
Battery Voltage	7.(,0	
Engine RPMs	I()f)	
Generator		**Comments**
!nerator Volts	4/4	
Generator Amps	LLfi(-	
Generator "KVA"	d'J;;g	
Reason For Use		**Comments**
Testing		
Emergency		
Maintenance	v	-C-n.r-... r;..... +
Generator		**Comments**
Fuel Delivered		
Fuel Level E 1/4 1/2 (3/8) F	/':7;-ta	mvt-\J J f1 Lj +-/(J IA6' 1.7 C26
Sulfur Concentrations <0.0015% (15ppm)		

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Diesel Generator Weekly Test Log

nt: r--f-0 Date: q}-/(i-l l

Operator: I\ t\..

Main Genlrator Breaker		Comments
Open		
Closed	.\/	
Engine		**Comments**
Start Time:	r ('.J (...	
Stop Time:	ff, 7.?..	
Total Run Time:		
Starting Hour Meter Reading	7/A'\7..	
Ending Hour Meter Reading		
Oil Level		
Coolant Level	Mc	Coolant Temp. @ Start *c Finish=";6'*c
Belt Condition		
Oil Pressure	Vf,	Start = ff, Z. bar Finish=t;. ar
Battery Condition		
Battery Voltage	V-7.:5""	
Engine RPMs	I	
Generator		**Comments**
?nerator Volts	11\r..	
Generator Amps	\l.Jo,	
Generator "KVA"	Alt..	
Reason For Use		**Comments**
Testing	,I	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level [1/4 [1/2 [3/4 [F	t./1}	
Sulfur Concentrations <0.0015% (15ppm)		

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Diesel Generator Weekly Test Log

ant: AlijA,.,	Date: 9/7-8117
Operator: Im; thcti Irth-.C\	

Main Generator Breaker		Comments
Open		
Closed	./'	
Engine		**Comments**
Start Time:	JC>/C,	
Stop Time:	(\ /#. ¥i	
Total Run Time:	B1r::, /ii f.ic:	
Starting Hour Meter Reading	71.0	
Ending Hour Meter Reading	8 !:). O	
Oil Level	Mr,.,. !	
Coolant Level	!llorM /	Coolant Temp.@ StartC,8 *c Finish=70 *c
Belt Condition	C-c,ctJ	
Oil Pressure	7.O	Start=,,, bar Finish= 7:0bar
Battery Condition	Gr>od	
Battery Voltage	2 ?..:.	
Engine RPMs	/	
Generator		**Comments**
nerator Volts	'1.18	
Generator Amps		
Generator "KVA"		
Reason For Use		**Comments**
Testing		
Emergency		
Maintenance		Con h-"&rdtJrs W6111q tM Tri:Jhr.f..
Generator		**Comments**
Fuel Delivered	./	JJ.q8, Co(t>s tJel,>r,a!
Fuel Level I 1/4 | 1/2 J 3/4 | F	e11	
Sulfur Concentrations <0.0015% (15ppm)		

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Diesel Generator Weekly Test Log

\nt: A|ctt f\ Date: ,11,- 7/;7

Operator ft};d\M'' r\

Main Generator Breaker		Comments
Open		
Closed	/	
Engine		**Comments**
Start Time:	(:01	
Stop Time:	(,/3C;	
Total Run Time:	5 hrs .21/rlt.	
Starting Hour Meter Reading	,B,J/	
Ending Hour Meter Reading	7'1.0	
Oil Level	,"In)/	
Coolant Level	/VOl"MP.f	Coolant Temp. @ Start 7, *c Finish= 7 *c
Belt Condition	voo.J	
Oil Pressure	,'7	Start= ., bar Finish=,. 1 bar
Battery Condition	J	
Battery Voltage	::l 7. I/	
Engine RPMs	/6()()	
Generator		**Comments**
!nerator Volts	/6	
Generator Am()S		
Generator "KVA"		
Reason For Use		**Comments**
Testing		
Emergency		
Maintenance	v'	C„n n-tlr h'l;-S 1JJ1rJ,;i()f DI? f,·-un L-·-P./',
Generator		/ **Comments**
Fuel Delivered		
Fuel Level 1/4 1/2 3/4 F	,18J.	
Sulfur Concentrations <0.0015% (15ppm)		

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Diesel Generator Weekly Test Log

ant: A \ 1) "O"		Date:	1-5-/7
Operator: zJi Cle / J/i' Jr. fl >ll			

Main Generator Breaker		Comments
Open	/	
Closed		
Engine		**Comments**
Start Time:	:l.too	
Stop Time:	'l l/Pi	
Total Run Time:	1l1 mi'n5	
Starting Hour Meter Reading	PJ.	
Ending Hour Meter Reading	(@.t/	
Oil Level	Nof'M /	
Coolant Level	Nor,rl /	Coolant Temp. @ Start *c Finish= *c
Belt Condition	r/f'oJ	
Oil Pressure		Start= bar Finish= bar
Battery Condition	G"oJ	
Battery Voltage	J.7.J/	
Engine RPMs	let>O	
Generator		**Comments**
.!nerator Volts	i/,/7	
Generator Amps		
Generator "KVA"		
Reason For Use		**Comments**
Testing	./	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level | 1/4 | 1/2 | 3/4 | F	S/.	
Sulfur Concentrations <0.0015% (15ppm)		

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Diesel Generator Weekly Test Log

rfant: Alpha Date: C,-LO -Jl

Operator: [redacted] fill IJ

Main Generator Breaker		Comments
Open		
Closed	✓	
Engine		**Comments**
Start Time:	0240	
Stop Time:	0250	
Total Run Time:	10 min	
Starting Hour Meter Reading	82.3	
Ending Hour Meter Reading	82.4	
Oil Level	good	
Coolant Level	good	Coolant Temp. @ Start 42 *c Finish= *c 7;;;-
Belt Condition	good	
Oil Pressure	7.8	Start = 7 .O bar Finish=7.d bar
Battery Condition		
Battery Voltage		
Engine RPMs	1<;-00	
Generator		**Comments**
venerator Volts	N/A	
Generator Amps	N/A	
Generator "KVA"	N/A	
Reason For Use		**Comments**
Testing	✓	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level | 1/4 | 1/2 | 3/4 | F	70%	
Sulfur Concentrations <0.0015% (l5ppm)		

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ABENGOA
NORTH AMERICA

Operator(s): £ib1 I --- 6<–f-t\

Date: 9–1 .. I/

Emergency Diesel Generator Bi-Hourly Readings

Time Of Reading	Oil Pressure	Gen. Voltage	Engine RPM	Coolant Temp.'c	Fuel Level %	Hour Meter	Oil Temp	Gen. KWH	Barr va (IS
00',30	.i.	.'-t .11	12,:,	8 o -	1 $J	3·ltq., 1	, 8 'c	1008'	ŧo-<j
d .•30	l, '(o	<f I J	/E.Oo	19 °c:	<=ts	'5().,/	- . . . <..	CJg	'=„c/
oI 27	ς ' "-	J/,11/	f6 0()	'7$ "':	1	J51, D	7 f:. 'c	; 0S3	· . .o
..:;.S3o	1,.' b	<i, 1.	I BYo	78	8"i	- 6L	7	I OI. $	?–7.0

Comments: EJJG6f6fr6P ·00/02,

tx:} \ ..-.t l-1- 1 C, AI(S /(fi< 1

ABENGOA

NORTH AMERICA

Operator(s): S \u.,1\/K I u,

Date: 8 r l]

Emergency Diesel Generator Bi-Hourly Readings

Time Of Reading	Oil Pressure	Gen. Voltage	Engine RPM	Coolant Temp.	Fuel Level	Hour Meter	Oil Temp	Gen. KWH
Q;).e-c	(•1	'i, ls,	i «o 0	, c)	c 0	3'1.?.q	-, 7	/03D
o.t../,oo	<S J.	4-, Ls	/1!,1:)	7 t	SJo	.;l&9	(	9 t/4-
0 b ODA	L,	\...\ • 1 5	\lGG\	'1	Cf. 7-..).	330.1	'1S	q '--
bf>()b	-1	lb	\(ff'lf')	T1	Y\'l	:i,3') . t	v\	Oh1
lhrll'\	I	1:. IL	j f))()	i i	L.l'1'1	3'34 q	<-i9	q ct '
r':l'iC'itl,M	/, n	Ll.tY	\ I no	l>Y	4.	'5L .'b	L>	IOOo
J'in	.lf	Lt13'	'rr-,q	t:)	'10	3'1i.		Jo lr-.
L'lnr\	Sct	If tY	Jiot)	S	<'17.	3	S	/Df?'J
18' 1.\-8.	.o	4 ('f-	J?q		':)%.	343	}(l	Jo8 J
2 0 0 0	5·. C,	L-t1 'f	<)_?		'L	"3<+-	I	,, </t

Comments: -C)(c. 111 Rc.e6N \'O

:thG: Dtg CT. l?Q- u & oea £$;

'1lD wR %¥et\vC, :iY h . ocJ I'% >YA

TRANSFORMER.

ABENGOA

CJ NORTH AMERICA

Operator(s): S Lv(! / J!:i·w

Date: 'K" rt- -1 7

Emergency Diesel Generator Bi-Hourly Readings

Rise ↓

Time Of Reading	Oil Pressure	Gen. Voltage	Engine RPM	Coolant Temp.	Fuel Level	Hour Meter	Oil Temp	Gen. KWH	B0.1,4... L>C)rte
o oo	43	"1 "S	I' g I:}()	'1g	S,	'3'03,}	⊲G	3<,	.i.7<)
o4	'(; 'S	-I !<t	f ex.)	""1...	'5' "f	$'0<19	-u.	i"i8	'1.0
10 i "Cbl\M	1... ')	Y\4	\'IQC\	'I\	5 b°I.	c·1,,	5	-gq.S	a 1.1
h 1s·004r\	{•"3	L\1	1.0O	'19	'-i,1.	304' -?	'I'1	CO	'd 1-0
10' ,M1	!iv.l	'°t,\L	/1 nD	,	ct'ti	3N·:).	'1q	1-,.7,c-)(	;) '"1. 0,
;I'M M	f... I	Y.\	I toc>	fi :z,	'11i-	<i 1	'rn	7	∂1
_'l:ti _M	l^ I	li.\:)	/fbi>	o'l	n./7.	3,c, D	'l'!J	1000	26.q
lf,nO M	lo,3	,13	nqq	rs	ti.J,	)\h..q	K	IC (	dC.q
, -0	8,L1	'"/, / '-	r'19?	2·	'15	8(9,	gi	11'1Jo	.,1 la+'f
o	e,•I	—<-JJS	1!!,Q,B	83	70	3 J.1- 0	&O	1 ocro	1. 8
u..,o ()	<. I	•It,.,	t $ocJ	79	?	:3:J.:'1/)	1S/	1 0 (...;	.J.1 ?
i Lfi'"t	,.1..	'1, J'-t	17 CJCJ	80	1	'3 .a	78	10 .fLf	12?,O
	- 13	-/1							

Comments: Delivery At 11:30 AM ~~Before~~ gallons Filling up: 2101 gallons

gallons After Filling up: 1899 gallons

ABENGOA

C) NOH rH AMERICA

Operator(s):Pb;/ /ff,"' ., BETA

Date: 9f-_))-t)

Emergency Diesel Generator Bi-Hourly Readings

Time Of Reading	Oil Pressure	Gen. Voltage	Engine RPM	Coolant Temp.	Fuel Level	Hour Meter	Oil Temp	Gen. KWH	Bat Volts
OCJCC/	.}	I./'/J	I? 'l 1	7	i I.{),	lo5 o	'l 7	t I.(	
o7 vo	l,' >	Lf. 13	/@"o	? '&-	i I '/.	?..o?	7r,	2 &	
o46	i. I/	4(/'f	/f5oo	77	SS->:	?,.$,,	75	10 o	2 >
DJo o	.1	i lv	{ls",	17	5Si,	II. 1/	[illegible]	6J	?. I
tN	(o,)	'-f, 1 A	Lg-o	7 "	5 /.	13.j	7/.	8'18	7. I
I, ,	Ct1	1/. I	1 30	f:}o	tt, 7-	'ti >	7'J	lu1li	-7o
Id'e	i.,i	L((L	I "	91..	7'o'/..	r.J/ 7, o		b ff?...	7. o
1tt io	(d. t	'(, 11	{Q	'if I(	r 4	11q."l	9"1	((/,I	2. ., 6
I . o	:.., /	Lf. 11	{	{15	'?1 1.	-Z.11 .R	S-1	C,io	2
I '600	I	4	\t4	9:1,	19-%	2'2.3.1		lob4	1-1
	" r	/I i	1S'CO	c	- . II	Z14- °I	<ZSO	1066	vr
"1 1-r	(1	1l&I	\100	9)e,	,1%	21-b,	/-i	<if,?i'	e(
oooo	b l	4-13	1"iroo	,9	C-'l/	21'7.o	'-'}<?;	y>ll+	")..-,
200	G,'>	4,1i	\5500	,15	?C.7o	231.o	1(-	y :>	.i..-,
(-')4.(0	b	4 ,'b	/'600	f1	6D'Jo	231.	'l ')	::-5	z.r

Comments: TOpped off at 1217 deck oil gave us 1836.2 gal

ABENGOA
NORTH AMERICA

Operator(s): [illegible]

Date: [illegible]

Emergency Diesel Generator Bi-Hourly Readings

Time Of Reading	Oil Pressure	Gen. Voltage	Engine RPM	Coolant Temp.	Fuel Level	Hour Meter	Oil Temp	Gen. KWH	
[illegible]	[illegible]	[illegible]	[illegible]	7	[illegible]	[illegible]	75	[illegible]	27.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27.0
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	27.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26.9
[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	1oo	[illegible]		124-7.0	[illegible]	[illegible]	27
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	bi	22:8	[illegible]	[illegible]	27
b2oo	[illegible]	[illegible]	[illegible]	[illegible]	75	[illegible]	[illegible]	[illegible]	27
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25b.	[illegible]	[illegible]	27

Comments: 0850 Beck oil arrived to refill, 0927 Beck oil Finished giving us 1519.6 gal

ABENGOA

C) '1\JURI'H AMERICA

Operator(s): Rhl;Jfg. :,,,,/sw(

Date: 8'- 1v 1'7

Emergency Diesel Generator Bi-Hourly Readings

Time Of Reading	Oil Pressure	Gen. Voltage	Engine RPM	Coolant Temp.	Fuel Level	Hour Meter	Oil Temp	Gen. KWH	
c'..	kl '1	4.I/	Ix-1L	77	5	llu. V	75	1()&	1.7, I
d'9! I	D.L/	11 , /)	Irr'''	; 7	4q;.	2 r.1	7{,	'ir7 1	27. ()
\a- ,	{,,?...	Y, 11	I t:1''	'ti	'fS;:.	7/,, J, 1	11	cue;	!!17,o
,-ao,	r,,I	4 , ti	l <too	Ck')	fi-7/.	1.1.4 c:	Y-6	q(:I	V.O
I 1./HI	t, I	4 U,	1 S-Un	9, I/	%°1/,	2 , G		91/J	'2 7o
I llH	&I	If,()	(?rdO	'i L/	7<6/:	l foe.?.	%''J	(&l'd	zc.
0000	{.... '	I -1/-	I'i''oo	I ,4	b'5 tt;,	2 7b,	. 7	qt::::>	iL,
. ffiAM	t.	. t	Ifno	'T1	((1/	; ;) q	'l<n	IIo	1.\
'. M	\...')	4.,	Ii 'lh	,q	c;:gl	{tli. 5	'1'1	nLf	/J J)
If\'''''''''''	L,	4.1''2.	nGO.	iD	Yi/	;)'!1, n	'I q	qJq	a, o
lc9',C() OM	b. I	4.1\	160t>	! 3	XYi	:nt. <;	I	icio	J I .i)
;)'. f'IA	lll.\	1..\\	Lrl\f)	<f4	'1 V.1,	1 q t. .!)	X	a 41	(oq
', b	(.. \	-11..	tbl''b	i4	3	9<:3L-.	't	'I°Ac...	x <f
/3'7 0	<1 0	'>{,/''3	/&-o()	'F<I-	70	lS'. I)	13'-J-,	9 S A	(o <1
:J000	, I	14, I?	JS-00	E'	(...7	29 7 .()	8I	)-=i	10.9
2:10 a	(I	'''/./	J7'19	21	<:'f	a98'.t!J	G	q a8'	,,I}?,<)
:J0 C	(.. 3	'-1 ./	/ If3	-7	(o	)0((	-/7	7C/	127

Comments: I/3 o A d.l o f..a16- .. he fr.. e'l'ing /5 &'' & c t 6 : r ...;fn' ;s

S v , 1-ts ta:55. 1 s j , iS lo\.9

CJ

ABENGOA

NORTH AMERICA

Operator(s): lu.ar

Date: ¥-f-l'.l

Emergency Diesel Generator Bi-Hourly Readings

Time Of Reading	Oil Pres ure	Gen. Voltage	Engine RPM	Coolant Temp.	Fuel Level	Hour Meter	Oil Temp	Gen. KWH	Battery volts
t: o·--	l. 1	:n	nCct	'16	'lr9!	t(7.1	11° 6 L	ID '-fl	
In<()	l. -	:11	Jtr()	tn.	Oo/.	I1'L.3	id- r-	/ l }<t	
V) iO	3	Y1	\ OD		'td'.7	11f\.	is c	Jo /o	
'2o	l. .}	fl. "	lY'AO	is	<l,	l'Y 3	$ α	10 0	
l\'.30-IIA	L. 1	.:)L q	1qq	ts	Tl'/.	IJ . S	α	m lQ	
to o	≒ • /	'2 . G	I7'IC	c:	1 '/	/ .ct	i3		
::l...D: (:Jc)	G,,	...t.	igoo	3	70	ld?, I	g'	IJ:J9	26.9
.:a.: /5-	G. .:i..	r t (	I s Oi!:l	¥20	6.S	fllS'	8 o't..	/()I 7	27. 0
H.l/l:1 o	. 1	q I I	/,TOo	oJ	<-/	13	79t.e	r; '-fl	27.0
	l/oCI .5-	2.ol?							
P	.3	' i I /	79q	7.4a {	5&-	135 .a.	79•c	fo tj	!! 9
fY/ o-o	'	'-I.I	I ·ao	?$'	.55	r3" Cf	,... rf...	/ })18	J..7.a
l. 1,f'\f\ ftM	- 1	't I 4	lii"Oo	'115	S 1:,	J 3 q)	' / - t(	b. :..	J I , o
'''')MA	!...	L\ \ J	, -Y;	, q	'-\CVo	l<-il!l,l	, 1 tc	lO'c)l(	a,. o
r.''Y.flry	L.Q.	LIK	\J:::o	i \	Y<-	1'-iJ. S	D'''	,1	1,0,,
\'.T:.-	L I	'-1.\	IfIH)	Q.f	l..f I 7.	\ '-iY .	i;;1	11io	.r,."
.DO ,I	t.. I	'-\ \J	nqq	')(<	3i1.	I41,..q	-	\IS!..	91 o
1· (ORVA)	t., \	'-, <	1.c::g	1..	55io	I 'i q	YI<-i	\1ef9	lo.
..itoc	l:;,, , I	t-J!	I'l qq	8 1	?s3 'T,	1£'(• G or	'a'	ICI	:2{:'·
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)7 a 6	f1,?..	.ft{	u 11	13'	3 .8/.	ISS.	i	[o7(	6.
-ZCfoo	•2-	..:. 13	I7qCf	$1	'II lo	Is?,/	79	//&13·	:J.,7, 0

Comments:

CJ

ABENGOA

NORTH AMERICA

Operator(s): S LJ. · !

Date: 8 - & - 17

Emergency Diesel Generator Bi-Hourly Readings

Time Of Reading	Oil Pressure	Gen. Voltage	Engine RPM	Coolant Temp.	Fuel Level	Hour Meter	Oil Temp	Gen. KWH	BATT Volts
	Q;41.	J-L/3	/'l'tq	79	4, I	l6<tiO	#110	(	2WO
c;'{	c.,,,3	<-£/J	I, q'j	'11	7	6 I,	go	/o/.S	27
/600	G. •I	"-I I I	I[0 o	$S°	4<;	175')	83 °	to).,7	1<aq
DOC	<a, I	ı ···	179a,	133	"t3, 0/o	/;(; g	:V o	1037	J<aq
122o a	(:, ı 2	-f. (4	/7 79	6(	'{o	ıl 9, c	1	/0 lf.I	(p.G
l;J J/oD	(. , 1	dS	/'i,o	(,-o	d 5 4	I '1.i.b	\ 78	I -o;)..,-.,	x'?. ()

Comments: _______________________

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ABENGOA

NORTH AMERICA

Operator(s):Jic..oi;/5 //

Date: Y /lo / I]

Emergency Diesel Generator Bi-Hourly Readings

Time Of Reading	Oil Pressure	Gen. Voltage	Engine RPM	Coolant Temp.	Fuel Level	Hour Meter	Oil Temp	Gen. KWH
1 :M aff	lµp	.\1	\too	.,	::l %	\/-:-<-	.,	q , o
0:(Y).-		Lt 14	\lYCI	◆1	34i,	IlnL..4	'1.q	loo
I\'rsbA'WI	I^..	: \:)	ft'o-0	K'1	.')q7	\L..'fl.0	<l l	lb\'-t
\'.()0	L . 1	\/: \\o	]-\/ q	,;	S.s.%	1 ,o : J	K	ID lf6
	I.t	'i .\'1	\"t..	/-t.	s1·1.	I"1 . .1	7'1...	(o h-1

Comments:_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

ABENGOA

NORTH AMERICA

Operator(s): sk .{(/£fr, i1

Date: 8'- 7-(?

Emergency Diesel Generator Bi-Hourly Readings

Time Of Reading	Oil Pressure	Gen. Voltage	Engine RPM	Coolant Temp.	Fuel Level	Hour Meter	Oil Temp	Gen. KWH	Bat volts
0"" ()	&L/	'-/, 13	t o/c,	77	357.	11. 1	,S	¥2S"	27.1
0 B'oo	<t<	lf Jl.	1 ,o	78"	Jii".	l'ir"l, 4	7	cto4	27.0
(0 Po	(&,)	'-(d J	! ,.	(J	"'-/ /'	t to.	7		7.o
/l,(I	t. I	Lt. 1lf	l o	1	1f7)(	/qJ, 1	'iJ I	'10 'J.	3. 7o
9 99	/. I	lf.li	(fop	;	i 1/.	I'i ,o	8'	f'{'i	9.0
i	C. I	fl,.q	/7qr,	1/	7 /	1 7, 3	'6	Gl/u	;16.9
,<loo	(... i	4 / 4.	(600		1 ')	1'1'Li	\	IASP.	27
?ooo	C:.L-	LL,14	1'bOL1	'32.	lt-7o	l.?n\oO	O	ioH	
2Zoo	t... 0:,	4 1'f	1OD	'60	b'3%	..2o .o	·1 'ls"	<j(s-	
H)Q")	(...:-)	4.1	(J4	9	h4-	Zo<;;:0	71	'94-'L	
D?e..>O	,.3	4.13	\,SOC		bl o-r.	201	7	9'h	
cu,DO	t.,, 4	LL,/ i	1800	-,-,	c;-'8%	oq	I	qon	27

Comments: oct33 Be,ll-(., 11Sv w 1-eS-:11/a}- 1elfi: ; ..,:,kt Jw t' :5

Gq{. lti ct+ "' k,. i r a, c1'enol- :1

ABENGOA SOLAR

Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: Afl..o..
Date: 22,ve\ • 17
Operator:...(olJi1. &d!:r)OV

Enqine		Comments
Oil level	K..fm..l	
Start Time	b7.Cj	
Startinq Hour Meter Readinq	'2.320	
Oil Pressure	&17	
Battery Condition	Alor..J	
Batterv Voltaqe	?7,3	
Enaine RPM	Apt.	
Generator Volts	1/1 k V	
Coolant temperature	71, °C..	
Oil temperature	76'l	
Fuel level%	6&	
Stop time	'2.-335	
Endina hour meter readina	hi,Z	
Total run time	15 „Jt/;,vfc.5	
Generator (when testing with load)		
Breaker close		
Generator Volts		
Breaker open		
Generator •KW"		
Reason For Use		
Testinq:	V	
Emerqency:		
Maintenance:		
Confirm master control turned back in auto◆Yesl No		

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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Diesel Generator Weekly Test Log

ant: Beta

Date: 1 1q 1 17

Operator:

Main Generator Breaker		Comments
Open	✓	
Closed		
Enaine		**Comments**
Start Time:	L:. 'OM	
Stop Time:	(_ '.L\]_QM	
Total Run Time:	_lOM,N	
Starting Hour Meter Reading	'-i'g	
Ending Hour Meter Reading	_. Y	
Oil Level	-:Nrl,	
Coolant Level	_iit"GAYIA\	Coolant Temp. @ Start 5 *c Finish= '1 (.o*c
Belt Condition	GMO	
Oil Pressure	Nt:YLA-\	Start = 5 , J bar Finish= l, . 5 bar
Battery Condition	t.Dtli	
Battery Voltage	;li;_ \	
Engine RPMs	rr00	
Generator		**Comments**
enerator Volts	. \l\	
I Generator Amps	_q'11	
Generator "KVA"	\o:HH	
Reason For Use		**Comments**
Testing	✓	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level 1/4 1/2 I 3/4 ✓"		
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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ABENGOA
SOLAR
Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

ALPHA ii BETA: 0
Date: 'o \', ; 11
Operator: rf\1 lt u i 1'or]

Engine		Comments
Oil Level	./	
Start Time	11 X	
Starting Hour Meter reading	C1-1	
Oil Pressure	C.7	
Battery Condition	.,/	
Battery Voltage	JI' '-(	
Engine RPM	J'cJX)	
Generator Volts	4.lq	
Coolant Temperature	7(p	
Oil Ptemperature	1fo"	
Fuel Level%		
Stop Time	):).45	
Ending Hour Meter Reading	G,lq	
Total Run Time	J6m,-,h	
Generator (When Testing With Load)		
Breaker Close	I	
Generator Volts		
Breaker Ooen		
Generator *KW*	I	
Reason For Use		
Testing:	./	
Emergency:		
Maintenance:		
Confirm Master Control Turned Back on Auto:	Yes ef No D	

This emegency 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.
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ABENGOA SOLAR

Sofar LLC

(ilojc,.ve

Emergency Diesel Generator Weekly Test Log

Plant:))4h
Date: 4z:!1-j7
Operator-.../).:....\ ".....

Enaine		Comments
Oil level	rynt?JAJ	
Start Time	-i' 271	
Startinq Hour Meter Readinq	2)7, c;	
Oil Pressure		
Battery Condition		
Batterv Voltaqe		
Enaine RPM	f 'KfJP;	
Generator Volts	11:17,,W	
Coolant temperature		
Oil temperature	7Fir	
Fuel level%	Q.	
Stoo time	Tm	
Endinq hour meter reading	7 7	
Total run time	If	
Generator (when testing with load)		
Breaker close		
Generator Volts		
Breaker ooen		
Generator "KW"		
Reason For Use		
Testinq:	\/	
Emerqencv:		
Maintenance:		
Confirm master control turned back in auto:\/Yes No		

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Diesel Generator Weekly Test Log

ant: Beta

Date: 7,/-/7

Operator: m ;lA_e, 1-\"'+O"

Main Generator Breaker		Comments
Open	,/	
Closed		
Engine		**Comments**
Start Time:	i !)C)	
Stop Time:		
Total Run Time:	15 "'.'"?	
Starting Hour Meter Reading	JIC„J.'	
Ending Hour Meter Reading		
Oil Level	/	
Coolant Level	,/	Coolant Temp. @ Start 10 *c Finish= 7'/*c
Belt Condition	./	
Oil Pressure	-,.C>	Start= 1,Q bar **Finish=G,.e,** bar
Battery Condition	/	
Battery Voltage	1.	
Engine RPMs	ISf:n	
Generator		**Comments**
nerator Volts	4.\')	
Generator Amps		
Generator "KVA"		
Reason For Use		**Comments**
Testing	/	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level | 1/4 | 1/2 | 3/4 | F	1'6%	
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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ABENGOA SOLAR

Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: Alr '\ _____
Date: 7 - I - \ I _____
Operator: [fl-c--.·1 ( ) _____

Engine		Comments
Oil level	(?CIC" q	
Start Time	?..: 'IO	
Startina Hour Meter Readina	&.7Jl-{	
Oil Pressure	l, ,7 b r	
Batterv Condition	GO, J	
Battery Voltaae	J <,,,	
Enaine RPM	(g- o	
Generator Volts	Ll,17	
Coolant temperature	<CQ,,	
Oil temperature	7S'c.	
Fuel level%	If	
Stop time	'J-&So	
Endina hour meter readina	(7 5	
Total run time	lom;"	
Generator (when testinQ with load)		
Breaker dose		
Generator Volts		
Breaker open		
Generator •KW"		
Reason For Use		
Testina:	V	
Emeraency;		
Maintenance:		
Confirm master control turned back in auto: ◆	No	

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.
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ABENGOA SOLAR

( ) Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: L\
Date: 6 /12
Operator:Coa:,, At-d-cbn

Enaine		Comments
Oil level	A.lnCm.. \	
Start Time	? I L/9	
Starting Hour Meter Reading	I) , I	
Oil Pressure	G,7	
Batterv Condition		
Batterv Voltaqe	'2..7,4V	
Enqine RPM	)....	
Generator Volts	1\, \	
Coolant temperature		
Oil temoerature	760%	
Fuel level%	9c..	
Stop time	'I 'Z.OS	
Endinq hour meter readinq		
Total run time		
Generator (when testinQ with load)		
Breaker close		
Generator Volts		
Breaker open		
Generator •KW"		
Reason For Use		
Testinq:	i/	
Emeraencv:		
Maintenance:		
Confirm master control turned back in auto:	?re{-:>No	

This Emergency Generator shall be limited to usefor emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.
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ABENGOA SOLAR

Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: A
Date: 2L/)
Operator: 0,11·il" -Ob t5ob

Engine		Comments
Oil level	Jhtma\	
Start Time	-Zto.?	
Starting Hour Meter Reading	£(„ 9	
Oil Pressure	G,, R"'-'	
Battery Condition	.:?\	
Battery Voltage	'Z:"l ,'\ \1	
Engine RPM	I <2 -.,.'	
Generator Volts	I{, I i id.I	
Coolant temperature	7/. "r-	
Oil temperature	"?f "C	
Fuel level%	s	
Stop time	P-Z.	
Ending hour meter reading	b7-J	
Total run time	~ AJhu-f-c	
Generator (when testing with load)		
Breaker close		
Generator Volts		
Breaker open		
Generator "KW"		
Reason For Use		
Testing:	., /	
Emergency:		
Maintenance:		
Confirm master control turned back in auto: ff(y No		

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.
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ABENGOA SOLAR

C'oj?ive Solar LLC

Emergency Diesel Generator Weekly Test Log

JI S, t> Z..l Il

Plant: '"Be„-("\...
Date: (,-n-X\]
Operator:;]re:#:/eol:r/\.

Enqine		Comments
Oil level	.Oiooo{	
Start Time	zo<n-	
Startina Hour Meter Readinq	115,	
Oil Pressure	&,'7	
Battery Condition		
Battery Voltaqe	2G,9	
Enaine RPM	((§//!£)	
Generator Volts	'td3Kv	
Coolant temperature	?(p	
Oil temperature	75	
Fuel level%	76	
Stop time	76S"o	
Endina hour meter readina	JIr,, I	
Total run time	JSM/\	
Generator (when testing with load)		
Breaker close		
Generator Volts		
Breaker open		
Generator •KW•		
Reason For Use		
Testinq:	wed,Nfc5i	
Emergency:		
Maintenance:		
Confirm master control turned back in auto: tr'e No		

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Diesel Generator Weekly Test Log

lant: Beta | Date: Co - 10 - 11

.Jperator: S J....v,e(

Main Generator Breaker		Comments
Open	C><...	
Closed		
Engine		**Comments**
Start Time:	l'103	
Stop Time:	k=t8'	
Total Run Time:		
Starting Hour Meter Reading	1\5	
Ending Hour Meter Reading	/15 i	
Oil Level	ok..	
Coolant Level	-e>k	Coolant Temp. @ Start 57 *c Finish= *c
Belt Condition	G-o<r&	
Oil Pressure		Start= 9.3 bar Finish= 7, Obar
Battery Condition	c J)	
Battery Voltage	;:::7.c	
Engine RPMs	lfU c>	
Generator		**Comments**
ienerator Volts		
-.enerator Amps		OJ)I" •• lq"lll ()........ ":\.e..1
..:,enerator "KVA"		
Reason For Use		**Comments**
Testing	X	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		rvn
Fuel Level 1/4 1/2 3/4 F	72 'Yo	
Sulfur Concentrations <0.0015% (I5ppm)		<.< 1:>-0\ {i) e..("1 :C\V o\c<.,

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

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ABENGOA
SOLAR
Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

ALPHA 0 **BETA:**

Date: h -'"S-1 t

Operator: . L-.

Engine		Comments
Oil Level	V	
Start Time	0302	
Starting Hour Meter reading	115. (,	
Oil Pressure	G .-,	
Battery Condition	(iooC	
Battery Voltage	'-b•)	
Engine RPM	\fSbO	
Generator Volts	4.' 7",	
Coolant Temperature	/	
Oil Ptemperature	,S- ' -	
Fuel Level%		
Stop Time	0'3j '2,	
Ending Hour Meter Reading	/ 15.'if	
Total Run Time	10.	
Generator (When Testinq With Load)		
Breaker Close		
Generator Volts		
Breaker Ooen		
Generator *KW*		
Reason for Use		
Testing:	'i	
Emergency:		
Maintenance:		
Confirm Master Control Turned Back on Auto: Yes	No D	

This emegency 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.

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ABENGOA
SOLAR
Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

ALPHA **BETA:** D

Date: C,-3-17

Operator: m: 1t, Hin

Engine		Comments
Oil Level	/	
Start Time	:J./15	
Starting Hour Meter reading	U:,	
Oil Pressure	:J.	
Battery Condition	,/	
Battery Voltage	x.e	
Engine RPM	i	
Generator Volts	'/.lb	
Coolant Temperature	1,	
Oil Ptemperature	7b	
Fuel Level%	t./	
Stop Time	;).130	
Ending Hour Meter Reading	C{:. 'l	
Total Run Time	15 ,:1 ,c.	
Generator (When Testing With Load)		
Breaker Close	,vA\	
Generator Volts	I	
Breaker Ooen	'"	
Generator *KW*		
Reason For Use		
Testing:	\, (	
Emergency:		
Maintenance:		
Confirm Master Control Turned Back on Auto: Yes 0"' No D		

This emegency 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.
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Diesel Generator Weekly Test Log

.ant: Beta Date: 5/28/17

Operator: K.,a4

Main Generator Breaker		Comments
Open	✓	
Closed		
Engine		**Comments**
Start Time:	Z.rq	
Stop Time:	Z32-7	
Total Run Time:	IOMtAV76	
Starting Hour Meter Reading	lIS.+	
Ending Hour Meter Reading	1.JS k7	
Oil Level	N	
Coolant Level	N	Coolant Temp. @ Start c Finish=7 *c
Belt Condition	t;utyl)	
Oil Pressure		Start = ·7,7 bar Finish 7 bar
Battery Condition	(-.f)t<l	
Battery Voltage	2,-	
Engine RPMs	ltJnl:'J	
Generator		**Comments**
lenerator Volts		
-.Jenerator Amps		
Generator "KVA"		
Reason For Use	-	**Comments**
Testing	V	
Emergency	/'CMAMT t;7T.....-	
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level 1/4 1/2 3/4 F		
Sulfur Concentrations <0.0015% (15ppm)		

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ABENGOA SOLAR

(f ojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: A1PA'\
Date: ,- ?- 17
Operator: €£'" 'd)

Enaine		Comments
Oil level	&ooJ.-	
Start Time	?.3 L(ip	
Startina Hour Meter Readinq	'" (i ,,;	
Oil Pressure	6. 7 P'r	
Batterv Condition	G" p(	
Batterv Voltaqe	J 7.oV	
Enaine RPM	l $1"oiPM	
Generator Volts	4.1 'v: <,0,47	
Coolant temperature	)(, "e	
Oil temperature	t 5'e,	
Fuel level%	4 n	
Stop time	Ii'"le	
Endinq hour meter readinq	<,, 7""	
Total run time		
Generator (when testing with load)		
Breaker close		
Generator Volts		
Breaker ooen		
Generator ·KW"		
Reason For Use		
Testina:		
Emeraency:		
Maintenance:		
Confirm master control turned back in auto: ◆	No	

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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Diesel Generator Weekly Test Log

- ant: Beta — Date: J, \-)1

Operator: A.., i4 &...

Main Generator Breaker		Comments
Open	V	
Closed		
Engine		**Comments**
Start Time:	-Z100	
Stop Time:	'Lt I V	
Total Run Time:	D	n{1,JU1BS
Starting Hour Meter Reading	!IS,"?	
Ending Hour Meter Reading	115,. tf-	Ouvr ,,,,,, f)(J;o , C,JL; A)0 T\ft 1£:;"•
Oil Level	qJ	
Coolant Level	"1	Coolant Temp. @ Start 51 *c Finish=;i *c
Belt Condition	6000	
Oil Pressure		Start=I, "7 bar Finish=h., 7 bar
Battery Condition	(. ooo	
Battery Voltage	21:,.'f	
Engine RPMs	J900	
Generator		**Comments**
nerator Volts	4, J	
nerator Amps		
Generator "KVA"	e Cff9	
Reason For Use		**Comments**
Testing	(.....-""	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level 1/4 1/2 1(3/4) F		
Sulfur Concentrations <0.0015% (15ppm)		

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u

ABENGOA SOLAR

uojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: Ill ebA
Date: 5 - 11 17
Operator: B i..

En<1ine		Comments
Oil level	riJ	
Start Time	fJ1.P/1	
Startina Hour Meter Readinq	r.&.)h	
Oil Pressure	i . 7 fJ",..	
Battery Condition	rL	
Batterv Voltaqe	e-f„q	
Enaine RPM	P.P/1\	
Generator Volts	'I,	
Coolant temperature	75(?c-	
Oil temperature	?3'C-	
Fuel level%	?i-'1%	
Stop time	e,"'(J	
Endina hour meter readina	(io,5 h	
Total run time	/-,Nlir\	
Generator (when testing with load)		
Breaker dose		
Generator Volts		
Breaker ooen		
Generator "KW"		
Reason For Use		
Testina:	./	
Emera ency:		
Maintenance:		
Confirm master control turned back in auto: {?eD No		

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ABENGOA SOLAR

Emergency Diesel Generator Weekly Test Log

Plant: t)crA
Date: S -1 -1
Operator: 2_•'--

Engine		**Comments**
Oil level	D	
Start Time	03<:'>r	
Starting Hour Meter Reading	t C?,t2Aa	
Oil Pressure		
Battery Condition	(..-><f:::)	
Battery Voltage	2.<... - 2,	
Engine RPM	I"c n1	
Generator Volts	'+•lS°'Ku'	
Coolant temperature	"51 -, b	
Oil temperature	41 ,S	
Fuel level%	,ts '1	
Stop time	O ,·–,	
Ending hour meter reading	\\,S-...")	
Total run time	tOMlN	
Generator (when testine1 with load)		
Breaker dose		
Generator Volts		
Breaker open		
Generator •KW"		
Reason For Use		
Testing:	1-'" 1.- \/	
Emergencv:		
Maintenance:		
Confirm master control turned back in auto: /Yf9 No		

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ABENGOA

SOLAR

Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

ALPHA ☐ **BETA:** D

Date: 5:e:1 Z 1 7

Operator:Of7C:

Engine		Comments
Oil Level		
Start Time	a JA:1 :7-7:22	
Starting Hour Meter reading	C ro.1	
Oil Pressure	7.7	
Battery Condition		
Battery Voltage	0?1)	
Engine RPM	k<M	
Generator Volts		
Coolant Temperature		
Oil Ptemperature	7(7·	
Fuel Level%		
Stop Time	:r '3?	
Ending Hour Meter Reading	00·'1!	
Total Run Time	10""	
Generator (When Testina With Load)		
Breaker Close		
Generator Volts		
Breaker Open		
Generator *KW*		
Reason For Use		
Testing:	V	
Emergency:		
Maintenance:		
Confirm Master Control Turned Back on Auto:	Yes at' No D	

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ABENGOA SOLAR

Emergency Diesel Generator Weekly Test Log

Plant: ,4LR-iA:
Date: S-42-'1
Operator: Pr-\,'--

Engine		Comments
Oil level	G&oC:>	
Start Time	2''3IO	
Starting Hour Meter Reading		
Oil Pressure	C...=,'"7AC_	
Battery Condition		
Battery Voltage	2,,- ?7.)	
Engine RPM	~C>O	
Generator Volts	4.14 kv	
Coolant temperature	15'	
Oil temoerature	4"2.- 14	
Fuel level%	"b5%o Z...	
Stop time	2-SO	
Ending hour meter reading	c.L..1-	
Total run time	IO -"\,",J")	
Generator (when testing with load)		
Breaker close		
Generator Volts		
Breaker open		
Generator •KW"		
Reason For Use		
Testino:	Wlft<.t.."I	
Emergency:		
Maintenance:		
Confirm master control turned back in auto:	¬ No	

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ABENGOA SOLAR

Gojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: tzeh
Date: t) ::{J 1...
Operator:

Engine		Comments
Oil level		
Start Time		
Starting Hour Meter Reading		
Oil Pressure		
Battery Condition		
Battery Voltage		
Engine RPM		
Generator Volts		
Coolant temperature		
Oil temperature		
Fuel level%		
Stop time		
Ending hour meter reading		
Total run time		
Generator (when testing with load)		
Breaker close		
Generator Volts		
Breaker open		
Generator "KW"		
Reason For Use		
Testing:		
Emergency:		
Maintenance:		
Confirm master control turned back in auto: I/Yes No		

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Diesel Generato• Weekly Test Log

ant: Beta Date: ,,, -1)

Operator: .s \l

Main Generator Breaker		Comments
Open	)<	
Closed		
Engine		**Comments**
Start Time:	o c	
Stop Time:	otC *IS*	
Total Run Time:	5 'M.h,	
Starting Hour Meter Reading	PL&	
Ending Hour Meter Reading		
Oil Level	a>:-_	
Coolant Level	1.c.	Coolant Temp. @ Start B's *c Finish=7 3 *c
Belt Condition	eO	
Oil Pressure		Start = ·g ,o bar Finish= 7 0 bar
Battery Condition	J	
Battery Voltage	2(- ,6	
Engine RPMs	J g' -0	
Generator		**Comments**
Jenerator Volts		
Amerator Amps		
Generator "KVA"		
Reason For Use		**Comments**
Testing	X	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered	#,J n	
Fuel Level 1/4 1/2 3/4 F	7g ½,	
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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Emergency Diesel Generator Weekly Test Log

Plant: Al
Date: &\jA-II
Operator: H;n◆t\

Enaine		Comments
Oil level	./	
Start Time	/1'{	
Starting Hour Meter Reading	6.e	
Oil Pressure	1.1	
Batterv Condition	/	
Battery Voltaae	1L.	
Engine RPM	I	
Generator Volts	'i.tCo Kv'	
Coolant temperature	KCo	
Oil temperature	15	
Fuel level%	f>Lfl.	
Stop time	?>	
Endinq hour meter readinq	LJ.	
Total run time	I? n'\LM	
Generator (when testing with load)		
Breaker close	tv/A	
Generator Volts		
Breaker open		
Generator •KW"	\/	
Reason For Use		
Testing:	./	
Emergency:		
Maintenance:		
Confirm master control turned back in auto:	No	

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.
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Emergency Diesel Generator Weekly Test Log

Plant:A
Date: 12 In
Operator: {omn AnJe,SQa

Enaine		Comments
Oil level	'J/'Jrr--'	
Start Time	(/<	
StartinQ Hour Meter Readina	!<	
Oil Pressure	(.. .) b4.	
Batterv Condition	t ol	
Batterv Voltaoe	'-'">S	
Enaine RPM		
Generator Volts	4-J'J kB	
Coolant temperature	7L °C-	
Oil temperature	'L "C.	
Fuel level%	5?<	
Stop time	l%os-	
Endina hour meter readina	!S. 8	
Total run time	J..	
Generator (when testina with load)		
Breaker close		
Generator Volts		
Breaker open		
Generator ·KW·		
Reason For Use		
Testina:	J	
Emeraency:		
Maintenance:		
Confirm master control turned back in auto: ?feD No		

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Diesel Generator Weekly Test Log

ljant: Beta

Date: LiIJdtl

Operator: –t _ L(A-.. lo

Main Generator Breaker		Comments
Open		
Closed		
Engine		**Comments**
Start Time:	').'-1 QM	
Stop Time:	1.·,?)u	
Total Run Time:	IDM,N	
Starting Hour Meter Reading	Uli .1	
Ending Hour Meter Reading	I\L\,'I'	
Oil Level	✓	
Coolant Level	✓""	Coolant Temp. @ Startj 1 *c Finish=1 L;*c
Belt Condition	\,,"	
Oil Pressure	✓	Start = i ,:1 bar Finish=,,_ bar
Battery Condition	✓	
Battery Voltage	·Jlt,,q	
	\'\OO	
(.)gineRPM		
Generator		**Comments**
.!nerator Volts	'-t.\lo	
Generator Amps	3'5d	
Generator "KVA"	Li. \lo	
Reason For Use		**Comments**
Testing	V	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level ⌊ 1/4 ⌊ 1/2 ⌊ 3/4 ⌊ F		
Sulfur Concentrations <0.0015% (15ppm)		

This Emergency Generator shall be limited to use for emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.

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ABENGOA
SOLAR
Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

ALPHA **BETA:** D

Date: L/ !'5'11

Operator: NJ;A,ej/;ofov,

Engine		Comments
Oil Level	/	
Start Time	1N'£.	
Starting Hour Meter reading	<t,'5.1	
Oil Pressure	ll,.7b-,r	
Battery Condition	./	
Battery Voltage	?.7.'5:	27 ?
Engine RPM	/800	
Generator Volts	.11 Av	
Coolant Temperature	7e,•c	
Oil Ptemperature	15° (	
Fuel Level%	Stf/.	
Stop Time	-,01-1	
Ending Hour Meter Reading	G."5.§	
Total Run Time	15m, 1	
Generator (When Testing With Load)		
Breaker Close	f,J(A	
Generator Volts	/	
Breaker Ooen	(	
Generator *KW*	v	
Reason For Use		
Testing:	./	
Emergency:		
Maintenance:		
Confirm Master Control Turned Back on Auto:	Yes CJ" No D	

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Diesel Generator Weekly Test Log

:tnt: Beta

Date: 4l1t.tl 11

Operator: . ,\oo\.

Main Generator Breaker		Comments
Open		
Closed		
Engine		**Comments**
Start Time:	ri',·'n ,"...	
Stop Time:	I •'-\('\...	
Total Run Time:	I() Mil\\	
Starting Hour Meter Reading	\\I..\, S	
Ending Hour Meter Reading	\14.1	
Oil Level	. /	
Coolant Level	./	Coolant Temp. @ Start 5 *c Finish='11.i*c
Belt Condition	/	
Oil Pressure	. \	Start = 1.I bar Finish=lo ,'\ bar
Battery Condition	./	
Battery Voltage	l.o.,	
Engine RPMs	\i<_-	
Generator		**Comments**
nerator Volts	t;, ,s	
Generator Amps	"3'61	
Generator "KVA"	ll.n	
Reason For Use		**Comments**
Testing	./	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level I 1/4 I 1/2 I 3/4 I F	ri'Z	
Sulfur Concentrations <0.0015% (}Sppm)		

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ABENGOA SOLAR

Emergency Diesel Generator Weekly Test Log

Plant: f>-rA
Date: Lt; .- "\ - I1
Operator: \5'1 r L -

Enaine		Comments
Oil level	(:?rr--D	
Start Time	l-Z.	
Startina Hour Meter Reading	Lli.j-•'+	
Oil Pressure	06AQ	
Battery Condition	Goot:>	
Battery VoltaQe	2G	
Enaine RPM	I c:,o	
Generator Volts	t_olb k v	
Coolant temperature	5'8 7b	
Oil temperature	!I7 -,,S-	
Fuel level%	7 5 %	
Stop time	?-1-45	
Endinq hour meter readinq	II'+, -S-	
Total run time	I O M I".);;;:,	
Generator (when testing with load)		
Breaker close		
Generator Volts		
Breaker open		
Generator •KW·		
Reason For Use		
Testing:	r., GcW,..'-/	
Emergency:		
Maintenance:		
Confirm master control turned back in auto: (Ye?) No		

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.ABENGOA SOLAR

Emergency Diesel Generator Weekly Test Log

Plant: All'r'"-
Date: I/ Zz/; 7
Operator: Co11, A b k : rSo"-

Engine		Comments
Oil level	A.1 o 1""1h ti\	C. e...Co r , ! , t(v' (or. *"'• ... :"'''''T" i ,
Start Time	,z.l	e-> _vr-o-\.v, t...(\ "I (e.ll
Starting Hour Meter Readinq	[?'-/. 1	
Oil Pressure		
Battery Condition	r"i)rl	
Battery Voltaae		
Enqine RPM	IIKor-	
Generator Volts	J. I t fell	
Coolant temperature	7S °C.	
Oil temperature	-.:.SC...	
Fuel level%	S	
Stop time	2 c) 'L1-	
Ending hour meter readinq	be;, L	
Total run time	I 5 N , n t.t-t,.C::	
Generator (when testing with load)		
Breaker close		
Generator Volts		
Breaker open		
Generator ·KW·		
Reason For Use		
Testing;	V	
Emergency:		
Maintenance:		
Confirm master control turned back in auto:	)fej,	No

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ABENGOA SOLAR

Emergency Diesel Generator Weekly Test Log

Plant: AL-PHA
Date: tr :J
Operator: H

Engine		Comments
Oil level	0	
Start Time	ao: 2	
Startina Hour Meter Readina	64	
Oil Pressure	0-c£.	
Battery Condition	bGOD	
Batterv Voltaae	11,o 21.r.	
Engine RPM	t"te>O	
Generator Volts	4 .\ 4	
Coolant temperature	75	
Oil temperature	4f 7	
Fuel level%	7 % 16k	
Stop time	O 1:-o·s	
Endina hour meter reading	r;;.4- /1	
Total run time	}(,ti\/	
Generator (when testing with load)		
Breaker close		
Generator Volts		
Breaker ooen		
Generator ·KW·		
Reason For Use		
Testinq:	lvau,	
Emeroencv:		
Maintenance:		

Confirm master control turned back in auto: (Yey No

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ABENGOA SOLAR

Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: Beta
Date: 4-1-17
Operator: Eric

Enaine		Comments
Oil level		
Start Time		
Startino Hour Meter Readino		
Oil Pressure		
Battery Condition		
Battery Voltaae		
Enoine RPM		
Generator Volts		
Coolant temperature		
Oil temoerature		
Fuel level%		
Stop time		
Endino hour meter readinq		
Total run time		
Generator (when testina with load)		
Breaker close		
Generator Volts		
Breaker open		
Generator •KW"		
Reason For Use		
Testina:		
Emeraencv:		
Maintenance:		

Confirm master control turned back in auto: VYes No

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.ABENGOA SOLAR

Emergency Diesel Generator Weekly Test Log

Plant: AlpA
Date: 3 - ?..5- 1)
Operator: G\u00e9"'\,!1

Engine		Comments
Oil level	(}.. c(	
Start Time	i341	
Starting Hour Meter Reading	l' 4 r,	
Oil Pressure	7. l 13r	
Battery Condition	tir1 J.	
Battery Voltage	a .c,	
Engine RPM	rep	
Generator Volts	(,11.. , I 1/i 1)	
Coolant temperature	7o'c	
Oil temperature	·C..-	
Fuel level%	7cYi,	
Stop time	SI	
Ending hour meter reading	4.	
Total run time	lo M'n	
Generator (when testing with load)		
Breaker close		
Generator Volts		
Breaker open		
Generator "KW"		
Reason For Use		
Testing:		
Emergency:		
Maintenance:		
Confirm master control turned back in auto: (Ve!) No		

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ABENGOA SOLAR

Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: \?Je-.\tA _____

e _ -H o"tb\\

;: :at _____

Enaine		Comme nts
Oil level	./	
Start Time	1115	
Startinq Hour Meter Readinq	ii4 . I	
Oil Pressure	1. ."" ht!.	
Batterv Condition	../	
Batterv Voltaqe	17 . I	
Enqine RPM	j'i?N:)	
Generator Volts	*Lj, 17*	
Coolant temperature	·1" DC.	
Oil temoerature	'7L("C.	
Fuel level%	,5"/.	
Stop time	:11D	
EndinCl hour meter readinq	114,'1	
Total run time	*la* n1:r¥->	
Ge nerator (when te stin<1with load)		
Breaker close		
Generator Volts		
Breaker open		
Generator •KW"		
Reason For Use		
Testina:	_, _____v \ *I*	
Emeraency:		
Maintenance:		
Confirm master control turned back in auto: e No		

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ABENGOA SOLAR

Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant:
Date:
Operator:

Engine		Comments
Oil level	N	
Start Time	00:	
Startina Hour Meter Reading	11 ;"\	
Oil Pressure	. 2	
Battery Condition	Ga OD	
Battery Voltaae	Z.1, I	
Enaine RPM	00	
Generator Volts	4-.J	
Coolant temperature	1 (,..	
Oil temperature	7C' v	
Fuel level%	·1-	
Stoo time	01:c	
Endina hour meter readina	I 14-. I	
Total run time	10 1111,\J,	
Generator (when testing with load)		
Breaker close		
Generator Volts		
Breaker ooen		
Generator ·KW·		
Reason For Use		
Testinq:	V	
Emeroencv:		
Maintenance:		
Confirm master control turned back in auto:	Yes1	No

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-ABENGOA SOLAR

Emergency Diesel Generator Weekly Test Log

Plant: A/Ph"-
Date: 3 -/ -1)
Operator: Eb:»:" fllo1.l)

Enaine		Comments
Oil level	(:ll £	
Start Time	'J/flO	
Startino Hour Meter Readina	l. lf.4h	
Oil Pressure	fl,Srll4	
Batterv Condition	(, (J JL	
Batterv Voltaae	).. 7,5	
Enaine RPM	ISfe;o	
Generator Volts	L/,IY	
Coolant temperature	7ve-	
Oil temoerature	7 S- c,	
Fuel level%	) Y.	
Stoo time	?-llo	
Endina hour meter readina	4.f.l	
Total run time		
Generator (when testina with load)		
Breaker close		
Generator Volts		
Breaker ooen		
Generator ·KW·		
Reason For Use		
Testina:	X	
Emeroency:		
Maintenance:		
Confirm master control turned back in auto:	No	

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.ABENGOA SOLAR

Emergency Diesel Generator Weekly Test Log

Plant
Date:
Operator:

Engine		Comments
Oil level		
Start Time		
Startina Hour Meter Reading		
Oil Pressure		
Batterv Condition		
Batterv Voltage		
Enqine RPM		
Generator Volts		
Coolant temoerature		
Oil temoerature		
Fuel level%		
Stoo time		
Endinq hour meter readinq		
Total run time		
Generator (when testinq with load)		
Breaker close		
Generator Volts		
Breaker ooen		
Generator •KW"		
Reason For Use		
Testinq:		
Emerqency:		
Maintenance:		
Confirm master control turned back in auto: (Yes) No		

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Diesel Generator Weekly Test Log

.mt: Beta Date: .;1 c2 .., 11

Operator: rt-v{.

Main Generator Breaker		Comments
Open	·X	
Closed		
Engine		**Comments**
Start Time:	If'.; JO	
Stop Time:	/2!Sf:;	
Total Run Time:	5 :,11,:,1	
Starting Hour Meter Reading	I/3,	
Ending Hour Meter Reading	(/ 3 ,	
Oil Level	O&	
Coolant Level	ltnrJj	Coolant Temp. @ Start !it *c Finish= 11 *c
Belt Condition	n	
Oil Pressure		Start= . o bar Finish= 7. O bar
Battery Condition		
Battery Voltage	:Ib	
Engine RPMs	(?d00	
Generator		**Comments**
Generator Volts		
Generator Amps		
Generator "KVA"		
Reason For Use		**Comments**
Testing	V	
Emergency		!.UI I-f f_ ·"i ,;...(< N7.4,,f,,,
Maintenance		
Generator		**Comments**
Fuel Delivered	r V D	
Fuel Level [1/4 [1/2 [3/4 [F	, 1 °IIJ	
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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.ABENGOA SOLAR

Emergency Diesel Generator Weekly Test Log

Plant: W,
Date: ©2:S'. / 2
Operator: (#11,,. A;ca°"

Engine		Comments
Oil level		
Start Time	rg&:;st	
Starting Hour Meter Reading	&. i"	
Oil Pressure		
Battery Condition		
Battery Voltaae	27.6	
Engine RPM		
Generator Volts	1\.11 kV	
Coolant temperature		
Oil temperature	7.r	
Fuel level%	76-/,	
Stop time		
Ending hour meter reading	b"/, J	
Total run time		
Generator (when testing with load)		
Breaker close		
Generator Volts		
Breaker open		
Generator •KW·		
Reason For Use		
Testing:	J	
Emergency:		
Maintenance:		

Confirm master control turned back in auto: /res ;} No

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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Diesel Generator Weekly Test Log

.ant: Beta

Oat;

Operator:

Main Generator Breaker		Comments
Open		
Closed		
Engine		**Comments**
Start Time:		
Stop Time:		
Total Run Time:		
Starting Hour Meter Reading		
Ending Hour Meter Reading		
Oil Level		
Coolant Level		Coolant Temp. @ Start , *c Finish= *c
Belt Condition		
Oil Pressure		Start = bar Finish= bar
Battery Condition		
Battery Voltage		
EngineRPMs		
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 (311}1 F		
Sulfur Concentrations <0.0015% (15ppm)		

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.ABENGOA SOLAR

Emergency Diesel Generator Weekly Test Log

Plant: _____
Date: _____
Operator: _____

Enaine		Comments
Oil level	fH„od	
Start Time	Dl,1D	
Starting Hour Meter Reading		
Oil Pressure	7.1	
Battery Condition		
Battery Voltaoe		
Engine RPM	J0,0()	
Generator Volts	Ll.,l, \(V	
Coolant temperature		
Oil temperature		
Fuel level%		
Stop time		
Ending hour meter reading		
Total run time	It) M	
Generator {when testing with load)		
Breaker close		
Generator Volts		
Breaker open		
Generator ·KW·		
Reason for Use		
Testing:	/	
Emergency:		
Maintenance:		
Confirm master control turned back in auto: (Ye?) No		

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Diesel Generator Weekly Test Log

lani: Beta

Date: -z-/(£3ht,

Operator: <pt..-A z:,A-

Main Generator Breaker		Comments
Open		
Closed		
Enaine		**Comments**
Start Time:		
Stop Time:	Z, S	\) IVJ tT" -> -/It
Total Run Time:	;0 tYl•v	
Starting Hour Meter Reading	,,3.+	
Ending Hour Meter Reading	113,&	
Oil Level	d-J	
Coolant Level	lJ	Coolant Temp. @ Start 57 *c Finish=7r;-*c
Belt Condition	t-.,oon	
Oil Pressure	to.7	Start= -0 bar Finish= b, 1 bar
Battery Condition	(-:i c? oo	
Battery Voltage	2-7	
Engine RPMs	)<x() ()	
Generator		**Comments**
]enerator Volts	4 ..,	
Generator Amps		
Generator "KVA"		
Reason For Use		**Comments**
Testing		
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered		
Fuel Level | 1/4 | 1/2 | (314)1 F		
Sulfur Concentrations <0.0015% (15ppm)		

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ABENGOA SOLAR

Emergency Diesel Generator Weekly Test Log

Plant: A//Jr J
Date: ' c - Il. -It
Operator: Gf r&;,, m,nJ,,.)

Engine		Comments
Oil level	o , L	
Start Time	?..'lt")S	
Startino Hour Meter Reading	3, 5h	
Oil Pressure	7, 013r	
Battery Condition	C;,onl_	
Battery VoltaCJe	)V	
Engine RPM	ISroorJ°m	
Generator Volts	q.17	
Coolant temperature	7 /'e.	
Oil temperature	't''c..	
Fuel level%	7(,7.	
Stop time	?.15	
EndinCI hour meter reading	<;3. 1 '-'	
Total run time	I M; J	
Generator (when testing with load)		
Breaker close		
Generator Volts		
Breaker ooen		
Generator "KW"		
Reason For Use		
Testinq:	X	
Emerqencv:		
Maintenance:		
Confirm master control turned back in auto: (Ye} No		

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ABENGOA SOLAR

Emergency Diesel Generator \Veekly T st Log

6;=Al/1-z-/C,

Operator:...,0-"–""'ttZ.'""e-------

Engine		Comments
Oil level	.£II	
Start Time	.:; <t..-	
Starting Hour Meter Readina	7.?,' Ll-	
Oil Pressure	\Vil? rz;	
Battery Condition	1-\1	
Battery Voltage	J-1,':4	
Enaine RPM	I((7-;_	
Generator Volts		/, 1-1-Pvlllt.:,+-RV-I-l' f)...{,v;W\
Coolant temperature	L'-AT,	
Oil temperature	/:. 7'(	
Fuel level%	7(..	
Stop time	"Z)	
Endina hour meter readina	7.5	
Total run time	ltJ w\ l»S	
Generator (when testinQ with load)		
Breaker close		
Generator Volts		
Breaker ooen		
Generator "KW"		
Reason For Use		
Testing:	\/	
Emergency:		
Maintenance:		
Confirm master control turned back in auto: /res '\ No		

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ABENGOA SOLAR

Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: f3erA _____
Date: -fj - 1'1 _____
Operator: PH 1L-- _____

Enaine		Comments
Oil level	r;rY)f)	
Start Time	,1c)50	
Starting Hour Meter Reading	V:o	
Oil Pressure		
Battery Condition	CooD	
Battery Voltaoe	;26.,t. -	
Enoine RPM	I'1)00	
Generator Volts	fl	
Coolant temperature	%L- 1,	
Oil temperature	4oc.- 7	
Fuel level%	15°t. -,<	
Stop time	!!_of	
Ending hour meter readinQ	f1 -U..	
Total run time	fl Mt	
Generator (when testina with load)		
Breaker close	/	
Generator Volts	/	
Breaker open	/	
Generator ·KW•	V	
Reason For Use		
Testina:	W«M L	
Emeraencv:		
Maintenance:		
Confirm master control turned back in auto: (Yes) No		

This Emergency Generator shall be limited to uS'eior emergency power, as defined as in response to a fire or when utility back-feed power is not available. In addition, this unit shall be operated no more than 30 minutes during any hour and 50 hours per year for testing and maintenance excluding compliance source testing. There is no limit on engine operation for Emergency use.
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ABENGOA SOLAR

Emergency Diesel Generator Weekly Test Log

Operator

Engine		Comments
Oil level	vt.	
Start Time	fJ 1 1b	
Starting Hour Meter Reading		
Oil Pressure	'isTS	
Battery Condition		
Battery Voltage		
Engine RPM		
Generator Volts		
Coolant temperature		
Oil temperature		
Fuel level%		
Stop time	fJ 7fJ	
Engine hour meter reading		
Total run time	JJwii	
Generator (when testing with load)		
Breaker close		
Generator Volts		
Breaker open		
Generator "KW"		
Reason For Use		
Testing:		
Emergency:		
Maintenance:		
Confirm master control turned back in auto:	No	

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ABENGOA SOLAR

Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: A
Date: t - &P - I
Operator: '°'1 I L -

Engine		Comments
Oil level	Gooo	
Start Time	OJ I	
Startina Hour Meter Readina	\I°;) • 0	
Oil Pressure	h-'{	
Batterv Condition		
Batterv Voltaoe	12t :21,'l..,	
Enaine RPM	ItlD0	
Generator Volts	't ·1>	
Coolant temperature	5'3 LJ	
Oil temoerature	13'j 7')	
Fuel level%	1, Z	
Stop time	C>IL'f	
Endina hour meter readina	/1 >, 1 -	
Total run time	II M,1'U	
Generator (when testina with load)		
Breaker close		
Generator Volts		
Breaker open		
Generator ·KW·		
Reason For Use		
Testina:	t_) fd=-V... '-(	
Emergency:		
Maintenance:		
Confirm master control turned back in auto: (g.) No		

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ABENGOA SOLAR

Mojave Solar LLC

Emergency Diesel Generator Weekly Test Log

Plant: r.. k,

Date: t- ;3 - 1,

Operator: S:h-<-,f/

Engine		Comments
Oil level	•',(" ,\,'t\Q (..D i	
Start Time	..2J... D<s	
Startina Hour Meter Readina	ll 7..q	
Oil Pressure	-7 ,, vhr	Htl lr 7,2 f,,,l)l.
Batterv Condition	(...]	
Battery Voltage	:(, 7	
Enaine RPM	I oo	
Generator Volts	"1 ,l 5	
Coolant temperature	(5l,, "c	'71 ,. C "?r.
Oil temoerature	(L.\o 0 c	:r' j
Fuel level%	,C,f1/o	
Stop time	2 1-.,·i -I	
Endina hour meter reading	/} . 0	
Total run time	[illegible]	
Generator (when testinq with load)		
Breaker close		
Generator Volts		
Breaker open		
Generator "KW"		
Reason For Use		
Testina:	X	
Emeraency:		
Maintenance:		

Confirm master control turned back in auto: CYesJ No

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ABENGOA SOLAR

Emergency Diesel Generator Weekiy Test Log

6'1; e' fG;

Operator:CoLlin Abdc.r5on

Engine		Comments
Oil level		
Start Time		
Starting Hour Meter Readino		
Oil Pressure		
Battery Condition		
Battery Voltaqe		
Engine RPM		
Generator Volts		
Coolant temoerature		
Oil temperature		
Fuel level%		
Stop time		
Endino hour meter readinq		
Total run time		
Generator (when testing with load)		
Breaker close		
Generator Volts		
Breaker ooen		
Generator ·KW·		
Reason For Use		
Testing:		
Emergency:		
Maintenance:		
Confirm master control turned back in auto:r'Yes') No		

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Diesel Generator Weekly Test Log

lant: Beta Date: , ... 7- / 'i

Operator: Lo. S I

Main Generator Breaker		Comments
Open	')('	
Closed		
Engine		**Comments**
Start Time:	j C$'"	
Stop Time:	Is: j'O	
Total Run Time:	<5"1 .	
Starting Hour Meter Reading	I #34. \	
Ending Hour Meter Reading	to<f-,	
Oil Level	4J	
Coolant Level	cc\i	Coolant Temp. @ Start 51 *c Finish= &b *c
Belt Condition	<2t-o&	
Oil Pressure	..	Start = S' . 1-.. bar Finish= 7, bar
Battery Condition	J	
Battery Voltage	:1	
Engine RPMs	i oe	
Generator		**Comments**
}merator Volts	4 , 13	
Generator Amps	Ctl	
Generator "KVA"	Nin	
Reason For Use		**Comments**
Testing	y	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered	i-$0	
Fuel Level [1/4] [1/2] [3/4] [F]	g, 0/o	
Sulfur Concentrations <0.0015% (15ppm)		

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Diesel Generator Weekly Test Log

mt: Beta Date: I • I .. 17

Operator: dl

Main Generator Breaker		Comments
Open	×	
Closed		
Engine		**Comments**
Start Time:	1488	
Stop Time:	1515	
Total Run Time:	S	
Starting Hour Meter Reading	JO.O	
Ending Hour Meter Reading	10	
Oil Level		
Coolant Level		Coolant Temp. @ Start S.:? *c Finish= 8 *c
Belt Condition	-ocl	
Oil Pressure		Start = g. 3 bar Finish= i,,f bar
Battery Condition		
Battery Voltage	.0	
Engine RPMs	I?;	
Generator		**Comments**
Generator Volts	4.J 3	
Generator Amps	25ti	
Generator "KVA"	7	
Reason For Use		**Comments**
Testing	X	
Emergency		
Maintenance		
Generator		**Comments**
Fuel Delivered	No	
Fuel Level 1/4 1/2 3/4 F	g<	
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)utage no longer imminent or in effect.

ABENGOA SOLAR

Emergency Diesel Generator w ekly Tf:st Log

Plant: *Alpb,-*
Date: ["Z . \ -,
Operator: r a u i n AMC-fSon

Engine		Comments
Oil level		
Start Time	*19S*	
StartinQ Hour Meter Readinq	*Cr:.*	
Oil Pressure	*I..* 9	
Battery Condition		
Battery Voltaae	2 '). ' "	
Enqine RPM	*1*	
Generator Volts	*JV..,,* kV	
Coolant temperature	7 ·(	
Oil temperature	1"\. {	
Fuel level%		
Stop time		
Ending hour meter readina		
Total run time		
Generator (when testing with load)		
Breaker dose		
Generator Volts		
Breaker open		
Generator ·KW·•		
Reason For Use		
Testinq:	*J*	
Emerqencv:		
Maintenance:		

Confirm master control turned back in auto: I'Y'es ◆ No

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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MATERIAL SAFETY DATA SHEET

UNLEADED GASOLINE (UNBRANDED)

MSDS No.
APPC975
Version: 1
Date
05/19/2003

IMPORTANT: Read this MSDS before handling and disposing of this product and pass this information on to employees, customers, and users of this product.

1. PRODUCT and COMPANY IDENTIFICATION

Material Identity Unleaded Gasoline (Unbranded)

Trade Name(s) None

Other Name(s) Unleaded Motor Vehicle Gasoline, Unleaded Premium Gasoline, Unleaded Regular Gasoline or Petrol, Clear Gasoline.

Chemical Description Petroleum Hydrocarbons

Manufacturer's Address

BP West Coast Products LLC
Carson Business Unit
1801 E. Sepulveda Boulevard
Carson, California 90749-6210

BP West Coast Products LLC
Cherry Point Business Unit
4519 Grandview Road
Blaine, Washington 98230

Telephone Numbers

Emergency Health Information:	1 (800) 447-8735
Emergency Spill Information:	1 (800) 424-9300 CHEMTREC (USA)
Other Product Information:	1 (866) 4BP-MSDS (866-427-6737 Toll Free - North America) email: bpcares@bp.com
Customer Service:	1 (800) 322-3736 INFO

2. COMPONENTS and EXPOSURE LIMITS

Component[1]	CAS No.	% Composition By Volume[2]		Exposure Limits ACGIH TLV	OSHA PEL[3]	Units	Type
GASOLINE [(2)(4)]	8006-61-9	EQ	100	500 300	500 300	ppm ppm	STEL TWA
which contains:							
BENZENE [(1)(2)(3)(4)]	71-43-2	AP	1 to 5	2.5 0.5 skin	5 1	ppm ppm	STEL TWA
CYCLOHEXANE	110-82-7	LT	2	400 300	N/AP 300	ppm ppm	STEL TWA
ETHYLBENZENE [(2)]	100-41-4	AP	1 to 3	125 100	125 100	ppm ppm	STEL TWA
HEXANE (N-HEXANE)	110-54-3	AP	2 to 5	50 skin	50	ppm	TWA
TOLUENE	108-88-3	AP	7 to 14	N/AP 50 skin	150 100	ppm ppm	STEL TWA
TRIMETHYL BENZENE (ALL ISOMERS)	25551-13-7	LT	5	25	25	ppm	TWA
1,2,4-TRIMETHYLBENZENE	95-63-6	AP	1 to 4	25	25	ppm	TWA

2,2,4 TRIMETHYLPENTANE							
	540-84-1	AP	3 to 10	N/AP	N/AP		
XYLENE							
	1330-20-7	AP	8 to 15	150	150	ppm	STEL
				100	100	ppm	TWA
which may contain:							
ETHANOL							
	64-17-5	AP	0 to 10	1000	1000	ppm	TWA
METHYL TERTIARY BUTYL ETHER (MTBE) [4]							
	1634-04-4	AP	0 to 15	40	N/AP	ppm	TWA

[1] Carcinogen displayed after Component Name. Listed by [(1)] NTP, [(2)] IARC, [(3)] OSHA, [(4)] Other

[2] See Abbreviations on last page

[3] The OSHA exposure limits were changed in 1993 due to a federal court ruling. ARCO has chosen to list the 1989 OSHA exposure limits in this document as they are generally more stringent and therefore more protective than the current exposure limits. (Refer to 29 CFR 1910.1000).

3. HAZARD IDENTIFICATION

IMMEDIATE HAZARDS

DANGER

HIGHLY FLAMMABLE! OSHA/NFPA Class IB flammable liquid. Keep away from heat, sparks, and open flame.

Never siphon gas by mouth. Harmful if swallowed. Contains petroleum distillates.

ASPIRATION HAZARD! If swallowed, do not induce vomiting since aspiration into the lungs may cause chemical pneumonia. Obtain prompt medical attention.

Prolonged or repeated liquid contact may cause irritation. High vapor concentrations (greater than 1000 ppm) may cause irritation to eyes and respiratory system and may cause dizziness and other nervous system effects.

Generally, human exposures to gasoline are considerably lower than levels which have caused adverse health effects in animal studies or human case studies of gasoline misuse or abuse (such as gasoline sniffing). Adverse health effects are not expected to occur at exposure levels typically encountered in the use of gasoline as a motor fuel.

Avoid breathing vapors or mists. Use only with adequate ventilation**.** Use as a motor fuel only. Do not use as a cleaning solvent, thinner or for other non-motor fuel use.

Wash hands thoroughly after handling.

ACUTE HEALTH HAZARDS

Routes of Exposure	Signs and Symptoms
Inhalation (Primary)	Exposures at airborne concentrations well above the recommended exposure limits in Section 2 may cause irritation of the nose, throat, and lungs, headache, dizziness, drowsiness, confusion, loss of coordination, fatigue, nausea, labored breathing and irregular heartbeats. May lead to unconsciousness, convulsions, and possibly death.
Eye Contact	May cause some transitory eye irritation but not expected to cause prolonged or significant eye irritation.
Skin Contact	Moderate skin irritation may occur upon short-term exposure. May be absorbed and contribute to the acute inhalation health effects (see above).
Ingestion	ASPIRATION HAZARD! This material can enter the lungs during swallowing or vomiting and may cause acute lung inflammation and damage which in severe cases may be fatal. Ingestion may cause irritation of the mouth, throat and gastrointestinal tract leading to nausea, vomiting, diarrhea, and restlessness. May cause headache, dizziness, drowsiness, confusion, loss of coordination, fatigue, nausea and labored breathing. May lead to unconsciousness, convulsions, and possibly death.

Summary of Chronic Hazards and Special Health Effects

Exposures at airborne concentrations well above the recommended exposure limits in Section 2 may aggravate medical conditions such as chronic respiratory diseases, cardiovascular disease, skin diseases, or blood disorders.

Prolonged/repeated exposures above the recommended exposure limits via skin contact, inhalation or ingestion of this material may result in adverse dermal or systemic effects. Avoid prolonged or repeated overexposure.

Contains benzene, a chemical known to cause cancer in humans. Repeated and prolonged overexposure to benzene vapors may cause leukemia, aplastic anemia, or other blood disorders, immunotoxicity, reproductive harm or fetal toxicity.

Neurotoxic effects have been associated with n-hexane, a component of this material upon prolonged or repeated overexposure.

Generally, human exposures to gasoline are considerably lower than levels which have caused adverse health effects in animal studies or human case studies of gasoline misuse or abuse (such as gasoline sniffing). Adverse health effects are not expected to occur at exposure levels typically encountered in the use of gasoline as a motor fuel.

See Section 11 for Additional Toxicological Information.

4. EMERGENCY and FIRST AID

Inhalation Immediately move personnel to area with fresh air. For respiratory distress, give oxygen, rescue breathing or administer CPR (cardiopulmonary resuscitation). Obtain prompt medical attention.

Eye Contact Flush with clean, low-pressure water for at least 15 minutes, occasionally lifting the eyelids. If pain or redness is present after flushing, obtain medical attention.

Skin Contact Immediately remove contaminated clothing. Wash affected skin thoroughly with soap and water. If irritation persists, obtain medical attention.

Ingestion Do not induce vomiting. Obtain prompt medical attention.

ASPIRATION HAZARD: This material can enter the lungs during swallowing or vomiting and may cause lung inflammation and damage.

Emergency Medical Treatment Procedures See above procedures.

5. FIRE and EXPLOSION

Flash Point (Method)*		AP -45°F **	**NFPA Hazard Rating:**
Autoignition Temperature (Method)*		AP 536°F **	**Health:** 1 = Slight
Flammable Limits (% Vol. in Air)*	**Lower**	AP 1.4	**Fire:** 3 = High
	Upper	AP 7.6	**Reactivity:** 0 = Insignificant
*** At Normal Atmospheric Temperature and Pressure**	**** Based on NFPA Gasoline**		**Special:** = ---

Fire and Explosion Hazards

HIGHLY FLAMMABLE! Vaporizes easily at normal and below normal temperatures. When mixed with air in certain proportions and exposed to an ignition source, these vapors can burn in the open or explode in confined spaces. Being heavier than air, flammable vapors may travel long distances along the ground before reaching a point of ignition and flashing back.

May accumulate static electricity.

Liquid floats on water and may travel to a source of ignition and spread fire.

“Empty” containers retain liquid and vapor residues and, if exposed to source of ignition, may explode.

Extinguishing Media	Foam, Water fog, Dry chemical, Carbon Dioxide (CO2) Water and water spray may cool the fire but may not extinguish the fire.
Special Firefighting Procedures	For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of combustion products and oxygen deficiencies. If firefighters cannot work upwind to the fire, respiratory protective equipment must be worn. Cool tanks and containers exposed to fire with water.

6. ACCIDENTAL RELEASE MEASURES

Precautions if Material is Spilled or Released	Eliminate all potential sources of ignition. Handling equipment and tools should be grounded to prevent sparking. Contain spill, evacuate non-essential personnel, and safely stop flow. Blanket spill with foam or use water fog to reduce vapor cloud. On hard surfaces, spilled material may create a slipping hazard. Equip cleanup crews with proper protective equipment (as specified in Section 8) and advise of hazards. Clean up by recovering as much spilled or contaminated materials as possible and placing into closed containers. Consult with an environmental professional for the federal, state and local cleanup and reporting requirements for spills and releases.

7. HANDLING and STORAGE

Handling, Storage and Decontamination Procedures

Avoid exposure to liquid and gas vapors. Odor is not a reliable warning of overexposure. Use only with adequate ventilation.

Keep away from sources of heat, flames, sparks or other ignition sources. Storage and use areas should be “No Smoking” areas. Containers should be bonded and grounded for transfers to avoid static sparks.

Outside or detached storage is preferred. Inside storage should be in a standard flammable liquids storage warehouse, room or cabinet. Separate from oxidizing materials.

Filling Portable Containers (less than 10 gallons) - to minimize static spark hazard:

1. Fill only metal containers or those approved to hold gasoline;
2. Place containers on the ground while dispensing fuel;
3. Keep hose nozzle in contact with the approved container during the entire filling process.

DO NOT fill any portable container in or on a vehicle.

“Empty” containers retain liquid and vapor residues and can be dangerous. Do not pressurize, cut, weld, drill, grind or expose to heat, flame, sparks, static electricity, or other sources of ignition containers with ANY residue; they may explode and cause injury or death.

For determining National Electrical Code (NEC) Hazardous (Classified) Location requirements for electrical installation, consider this material Class 1, Group D.

KEEP OUT OF REACH OF CHILDREN!

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls	Where possible, use adequate ventilation to keep vapor and mist concentrations of this material below the occupational exposure limits shown in Section 2. Electrical equipment should comply with National Electrical Code (NEC) standards (see Section 7).
Respiratory	A NIOSH/MSHA-approved air-purifying respirator with an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations may exceed the exposure limits in Section 2. Consult a health and safety professional for guidance in respirator selection. Respirator use should comply with OSHA 29 CFR 1910.134.

CAUTION: The protection provided by air-purifying respirators is limited. Use a positive pressure air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are not known, or if concentrations exceed the protection limits of the air-purifying respirator.

Eyes Eye protection should be worn. If there is potential for splashing or spraying, chemical protective goggles and a face shield should be worn. If contact lenses are worn, consult an eye specialist or a safety professional for additional precautions. Suitable eye wash water should be available in case of eye contact with this material.

Skin Avoid prolonged and/or repeated skin contact. If conditions or frequency of use make significant contact likely, clean and impervious clothing such as gloves, apron, boots and facial protection should be worn. Nitrile and Viton protective clothing material is recommended.

Non-impervious clothing which becomes contaminated with this material should be removed promptly and not reworn until the material is effectively removed from the clothing.

Other Hygienic and Work Practices Use good personal hygiene practices. In case of skin contact, wash with mild soap and water or a waterless hand cleaner. Wash hands and other exposed areas thoroughly before eating, drinking, smoking, or using toilet facilities.

9. PHYSICAL and CHEMICAL PROPERTIES

Boiling Point:	AP 35°F to 437°F
Viscosity Units, Temp. (Method):	N/AP
Dry Point:	AP 430°F
Freezing Point:	N/AP
Vapor Pressure, Temp. (Method):	AP 5 to 15 at 100°F (REID-PSIA)
Volatile Characteristics:	Appreciable
Specific Gravity (H_2O = 1 @ 39.2°F):	AP 0.7 to 0.8
Vapor Sp. Gr. (Air = 1.0 @ 60°F - 90°F):	AP 4
Solubility in Water:	Slight
PH:	N/AP
Appearance and Odor:	Colorless to straw-colored liquid; petroleum naphtha odor.
Other Physical and Chemical Properties:	Vapor pressure will vary seasonally in compliance with industry standards and federal and state regulations.

10. STABILITY and REACTIVITY

Stability	Stable
Hazardous Polymerization	Not expected to occur.
Other Chemical Reactivity	Reacts with oxidizing materials.

Conditions to Avoid Heat, sparks, flame, and build up of static electricity.

Materials to Avoid Halogens, strong acids, alkalies, and oxidizers.

Hazardous or Decomposition Products Burning or excessive heating may produce carbon monoxide and other harmful gases or vapors including oxides and/or other compounds of sulfur.

The inhalation of components of exhaust from combusted fuel can be fatal in high concentrations in an enclosed area. Exposure to exhaust from this fuel should be minimized.

11. TOXICOLOGICAL INFORMATION

Toxicological Information

The information found in this section is written for medical, toxicology, occupational health and safety professionals. This section provides technical information on the toxicity testing of this or similar materials or its components. If clarification of the technical content is needed, consult a professional in the areas of expertise listed above.

Inhalation

Toxicity studies on this material resulted in LC50 values greater than 5.0 mg/l indicating a low potency. There were signs of respiratory tract irritation and central nervous system depression.

Eye Contact

Minimal to no irritation in animal studies.

Skin Contact

Animal studies resulted in moderate skin irritation following short term or prolonged/repeated exposure. The acute dermal toxicity tests indicate LD50 values greater than 2.0 g/kg indicating a low potency. Exposure to sunlight does not increase skin irritation. This material appears to be non-sensitizing.

Ingestion

The acute oral toxicity tests produced LD50 values greater than 5.0 g/kg indicating a low potency. There were signs of gastrointestinal tract irritation and central nervous system depression.

Prolonged/ Repeated Exposures

Twenty-eight day dermal toxicity studies resulted in moderate skin irritation. In some studies changes in liver, kidney, testes and whole body weights were noted, but no significant systemic tissue changes characteristic of disease. Ninety-day dermal toxicity studies with similar material resulted in moderate skin irritation and not other significant observations or systemic tissue changes characteristic of disease. Twenty-eight day inhalation toxicity study similar materials resulted in kidney damage in male rats.

A two-year inhalation study with a generic unleaded gasoline formulated by the American Petroleum Institute caused kidney damage and kidney tumors in male rats and liver tumors in female mice. These effects are considered specific to these laboratory animals and not applicable to humans.

Exposure to components of gasoline such as benzene, toluene, xylene, ethylbenzene, trimethylbenzene, and N-hexane has also been shown to affect reproductive capacity and/or fetal development in laboratory animals.

Studies with laboratory animals (dogs) indicate that exposure to extremely high concentrations of gasoline (greater than 50,000 ppm) may cause irregular heartbeats and sudden death. Exposures of laboratory animals to some components of this material at very high concentrations, well above the recommended exposure limits in Section 2, have resulted in cardiac sensitization with irregular heartbeats.

Exposure to n-hexane at concentrations considerably higher than the current permissible exposure limit has reportedly been associated with peripheral neuropathy. Commercial hexane exposures up to 9000 ppm were not carcinogenic in laboratory animals.

In animal studies and in workers with chronic benzene poisoning, alterations in structure of chromosomes in bone marrow and white blood cells have been observed.

Additional Ethanol Toxicity Information

Exposures to ethanol in gasoline are considerably lower than levels which have caused adverse health effects. Adverse health effects are not expected to occur at exposure levels typically encountered in the use of ethanol as a gasoline additive.

Prolonged and repeated exposure to ethanol vapor above 1000 ppm may cause headache, lack of coordination, sleepiness, fatigue, and difficulty concentrating. Chronic ingestion of ethanol in the form of alcoholic beverages has resulted in liver, stomach, heart and nervous system damage as well as cancers of the mouth, pharynx, larynx, esophagus, and liver in humans. Repeated ingestion of ethanol in the form of alcoholic beverages by pregnant women has caused miscarriage, premature birth and low birth weight, and birth defects (fetal alcohol syndrome).

Additional MTBE Toxicity Information

MTBE at very high exposure levels (8000 ppm) did induce developmental toxicity in mice, but only at levels where there was also maternal toxicity. In rabbits exposed to the same MTBE levels, there were no indicators of any effects on the offspring, even in the presence of maternal toxicity. The abnormal findings in the mice (cleft palate, etc.) are well-recognized effects of stress in the pregnant mouse and have no correlation with development hazards in humans.

Chronic toxicity studies have been completed for MTBE. In these studies, B6C3Fl mice and F344 rats were exposed to 400, 3000, or 8000 ppm MTBE vapors, 6 hrs/day, 5 days/week for life. Few adverse effects were noted for either rats or mice.

Male and female mice exposed to 8000 ppm MTBE vapors developed a slightly higher incidence of benign liver tumors during their lifetime. No other adverse effects or increases in tumor incidences were found.

Male and female rats exposed to high concentrations of MTBE vapors developed an increasing incidence of chronic progressive kidney damage, an effect typically noted in aging rats. These effects were most severe in 3000 and 8000 ppm exposure groups and were accompanied by an increased incidence of kidney tumors (males only). These findings are consistent with kidney damage associated with accumulation of protein in cells, an effect which may be unique to the male rat. Benign testicular tumors were numerically increased in high dose MTBE male rats, but this is an age-related lesion which typically occurs in a very high proportion of control untreated rats.

MTBE does not appear to be a mutagen.

All of these effects either occur in tissues prone to the development of tumors or may occur by a mechanism not considered relevant to humans. The significance of these findings for human health hazards estimation is unclear. Furthermore, IARC has determined that MTBE is not classifiable as to its carcinogenicity to humans (Group 3).

12. ECOLOGICAL INFORMATION

Not Available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

Consult an environmental professional to determine if state or federal regulations would classify this material as a hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities. Comply with all federal, state and local laws pertaining to waste management.

14. TRANSPORT INFORMATION

UN Proper Shipping Name	Gasoline
UN Hazard Class	3
UN Number	UN1203
UN Packing Group	PGII

15. REGULATORY INFORMATION

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA), TITLE III

Section 311/312 Hazard Categories:
Acute Health Hazard
Delayed (chronic) health hazard
Fire hazard

Section 313:
This product contains the following chemicals subject to the reporting requirements established by SARA Title III:

BENZENE
CYCLOHEXANE
ETHYLBENZENE
METHYL TERT-BUTYL ETHER
TOLUENE
XYLENE

TOXIC SUBSTANCES CONTROL ACT (TSCA)
All components of this product are listed on the TSCA Inventory.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA)
This material is covered by CERCLA's PETROLEUM EXEMPTION.
(Refer to 40 CFR 307.14)

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 - PROPOSITION 65

PROP 65 WARNING LABEL:
Chemicals known to the State to cause cancer, birth defects, or other reproductive harm are found in gasoline, crude oil, and many other petroleum products and their vapors, or result from their use. Read and follow label directions and use care when handling or using all petroleum products.

WARNING:
This product contains the following chemical(s) listed by the State of California as known to cause cancer or birth defects or other reproductive harm.

BENZENE (C) (R)
TOLUENE (R)

Other Prop 65 chemicals will result under certain conditions from the use of this material. For example, burning fuels produces combustion products including carbon monoxide, a Prop 65 reproductive toxin.

(C) = Carcinogen
(R) = Birth Defects or other Reproductive Harm

16. OTHER INFORMATION

General Comments

Because of volatility characteristics, gasoline vapors may have concentrations of components different from those of liquid gasoline. The major components of gasoline vapors from liquid gasoline are butane, isobutane, pentane and isopentane.

The information and conclusions herein reflect normal operating conditions and may be from sources other than direct test data on the mixture itself.

Abbreviations:			
	EQ = Equal	AP = Approximately	N/P = No Applicable Information Found
	LT = Less Than	UK = Unknown	N/AP = Not Applicable
	GT = Greater Than	TR = Trace	N/DA = No Data Available

Prepared by: Product Stewardship

Material Safety Data Sheet
Diesel Fuel - NR

NFPA:

TESORO

HMIS III:

HEALTH	1
FLAMMABILITY	2
PHYSICAL	0

O= Insignificant, 1 = Slight, 2 = Moderate, 3 = HiQh, 4 = Extreme

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Diesel Fuel - NR		
Synonyms	:	Dakota 50, Diesel Fuel - Non-Road, Red Dyed Diesel, Agricultural Diesel, Ag Diesel, 888100008799		
MSDS Number	:	888100008799	**Version** :	1.3
Product Use Description	:	Fuel		
Company	:	For: Tesoro Refining & Marketing Co. 19100 Ridgewood Parkway, San Antonio, TX 78259		
Tesoro Call Center	:	(877) 783-7676	**Chemtrec (Emergency Contact)** :	(800) 424-9300

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Regulatory status : This material is considered hazardous by the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200).

Signal Word : **WARNING**

Hazard Summary : Combustible Liquid

Toxic

Potential Health Effects

Inhalation : Vapors or mists from this material can irritate the nose, throat, and lungs, and can cause signs and symptoms of central nervous system depression, depending on the concentration and duration of exposure.

Eyes : Eye irritation may result from contact with liquid, mists, and/or vapors.

Skin : Skin irritation leading to dermatitis may occur upon prolonged or repeated contact. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are repeatedly exposed. Long-term, repeated skin contact may cause skin cancer.

Ingestion : Harmful or fatal if swallowed. Do NOT induce vomiting. This material can irritate the mouth, throat, stomach, and cause nausea, vomiting, diarrhea and restlessness. Aspiration hazard if liquid is inhaled into lungs, particularly from vomiting after ingestion. Aspiration may result in chemical pneumonia, severe

lung damage, respiratory failure and even death.

Target Organs : Kidney, Liver, Central nervous system, Eyes, Skin

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Weight%
Fuels, diesel, No 2; Gasoil - unspecified	68476-34-6	100%
Naphthalene	91-20-3	1 -5%
Xylene	1330-20-7	1 -5%
Nonane	111-84-2	0.75 - 1%
1,2,4-Trimethylbenzene	95-63-6	0.75 - 1%
Sulfur	7704-34-9	15 ppm Maximum

SECTION 4. FIRST AID MEASURES

Inhalation : Move to fresh air. Give oxygen. If breathing is irregular or stopped, administer artificial respiration. Seek medical attention immediately.

Skin contact : Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. Wash contaminated clothing before re-use. If skin irritation persists, seek medical attention.

Eye contact : Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, seek medical attention.

Ingestion : Do NOT induce vomiting. Ingestion may result in nausea, vomiting, diarrhea and restlessness. Aspiration may cause pulmonary edema and pneumonitis. Seek medical attention immediately.

Notes to physician : Symptoms: Dizziness, Discomfort, Headache, Nausea, Disorder, Vomiting, Lung edema, Aspiration may cause pulmonary edema and pneumonitis. Liver disorders, Kidney disorders.

SECTION 5. FIRE-FIGHTING MEASURES

Form : Liquid

Flash point : 38 'C (100 "F)Minimum for #1 NRLM ; 52 ° Minimum for #2 NRLM

Lower explosive limit : 0.7 **%(V)**

Upper explosive limit : 5 **%(V)**

Suitable extinguishing media : Carbon dioxide (CO2), Water spray, Dry chemical, Foam, Keep containers and surroundings cool with water spray.

Specific hazards during fire fighting : Fire Hazard Do not use a solid water stream as it may scatter and spread fire. Cool closed containers exposed to fire with water spray.

Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.
Further information	:	Exposure to decomposition products may be a hazard to health. Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	:	Consider wind direction; stay upwind and uphill, if possible. Evacuate nonessential personnel and remove or secure all ignition sources. Evaluate the direction of product travel, diking, sewers, etc. to contain spill areas. Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact. Ensure adequate ventilation. Use personal protective equipment.
Environmental precautions	:	Carefully contain and stop the source of the spill, if safe to do so. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection. Discharge into the environment must be avoided. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods for cleaning up	:	Take up with sand or oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal - caution, flammable vapors may accumulate in closed containers. Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

SECTION 7. HANDLING AND STORAGE

Handling	:	Keep away from fire, sparks and heated surfaces. No smoking near areas where material is stored or handled. The product should only be stored and handled in areas with intrinsically safe electrical classification.
Advice on protection against fire and explosion	:	Hydrocarbon liquids including this product can act as a non-conductive flammable liquid (or static accumulators), and may form ignitable vapor-air mixtures in storage tanks or other containers. Precautions to prevent static-initated fire or explosion during transfer, storage or handling, include but are not limited to these examples: (1) Ground and bond containers during product transfers. Grounding and bonding may not be adequate protection to prevent ignition or explosion of hydrocarbon liquids and vapors that are static accumulators. (2) Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when higher flash point material (such as fuel oil or diesel) is loaded into tanks previously containing low flash point products (such gasoline or naphtha). (3) Storage tank level floats must be effectively bonded. For more information on precautions to prevent static-initated fire or explosion, see NFPA 77, Recommended Practice on Static Electricity (2007), and API Recommended Practice 2003, Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents (2008).

Dust explosion class	:	Not applicable
Requirements tor storage areas and containers	:	Keep away from flame, sparks, excessive temperatures and open flame. Use approved containers. Keep containers closed and clearly labeled. Empty or partially full product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose containers to sources of ignition. Store in a well-ventilated area. The storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks".
Advice on common storage	:	Keep away from food, drink and animal feed. Incompatible with oxidizing agents. Incompatible with acids.
Other data	:	No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ex12osure Guidelines

Ust	Components	CAS-No.	Type:	Value
0SHAZ1	Naphthalene	91-20-3	PEL	10ppm 50mg/m3
	Xylene	1330-20-7	PEL	100 ppm 435 mg/m3
ACGIH	Diesel Fuel	68476-30-2	**TWA**	100 mg/m3
ACGIH	Naphthalene	91-20-3	**TWA**	10ppm
		91-20-3	STEL	15ppm
	Xylene	1330-20-7	**TWA**	100 ppm
		1330-20-7	STEL	150 ppm
	Nonane	111-84-2	**TWA**	200 ppm

Engineering measures	:	Use only intrinsically safe electrical equipment approved for use in classified areas.
Eye protection	:	Safety glasses with side-shields reference to 29 CFR 1910.133
Hand protection	:	Gloves constructed of nitrile, neoprene, or PVC are recommended. Consult manufacturer specifications for further information.
Skin and body protection	:	If needed to prevent skin contact, chemical protective clothing such as of DuPont TyChem®, Saranex or equivalent recommended based on degree of exposure. The resistance of specific material may vary from product to product as well as with degree of exposure.

Respiratory protection	:	A NIOSH/ MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited. Refer to OSHA 29 CFR 1910.134, ANSI 288.2-1992, NIOSH Respirator Decision Logic, and the manufacturer for additional guidance on respiratory protection selection. NIOSH/MSHA approved positive-pressure self-contained breathing apparatus (SCBA) or Type C positive-pressure supplied air with escape bottle must be used for gas concentrations above occupational exposure limits, for potential of uncontrolled release, if exposure levels are not known, or in an oxygen-deficient atmosphere.
Work / Hygiene practices	:	Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use solvents or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Liquid
Appearance	:	Clear, straw colored.
Odor	:	Characteristic petroleum (kerosene) odor
Flash point	:	38 'C (100 °F)Minimum for #1 NRLM; 52 ° Minimum for #2 NRLM
Thermal decomposition	:	No decomposition if stored and applied as directed.
Lower explosive limit	:	0.7 %(V)
Upper explosive limit	:	5 %(V)
Freezing point	:	Not applicable
Boiling point	:	160 "C(320 °F)
Vapor Pressure	:	< 2 mm Hg at 20 °C
Relative Vapor Density	:	5.7 (Air= 1.0)
Water solubility	:	Negligible
Percent Volatiles	:	100 %
Conductivity (conductivity can be reduced by environmental factors such as a decrease in temperature		Diesel Fuel Oils at terminal load rack: At least 25 pS/m Ultra Low Sulfur Diesel (ULSD) without conductivity additive: 0 pS/m to 5 pS/m ULSD at terminal load rack with conductivity additive: At least 50 pS/m but conductivity may decrease from environmental factors such as temperature drop. JP-8 at terminal load rack: 150 pS/m to 600 pS/m

SECTION 10. STABILITY AND REACTIVIliY

Conditions to avoid	:	Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources. Keep away from strong oxidizers. Viton ®; Fluorel ®
Materials to avoid	:	Strong oxidizing agents Peroxides
Hazardous decomposition products	:	Carbon monoxide, carbon dioxide and noncombusted hydrocarbons (smoke). Diesel exhaust particulates may be a lung hazard - see Section 11.
Thermal decomposition	:	No decomposition if stored and applied as directed. No decomposition if used as directed.
Hazardous reactions	:	Keep away from oxidizing agents, and acidic or alkaline products.

SECTION 11. TOXICOLOGICAL INFORMATION

Carcinogenicity

NTP	:	Naphthalene (GAS-No.: 91-20-3)
IARC	:	Naphthalene (GAS-No.: 91-20-3)
OSHA	:	No component of this product which is present at levels greater than or equal to 0.1 % is identified as a carcinogen or potential carcinogen by OSHA.
CA Prop 65	:	WARNING! This product contains a chemical known to the State of California to cause cancer. Naphthalene (CAS-No.: 91-20-3)
Skin irritation	:	Irritating to skin.
Eye irritation	:	Irritating to eyes.
Further information	:	Studies have shown that similar products produce skin cancer or skin tumors in laboratory animals following repeated applications without washing or removal. The significance of this finding to human exposure has not been determined. Other studies with active skin carcinogens have shown that washing the animal's skin with soap and water between applications reduced tumor formation. Positive mutagenicity results have been reported. Repeated over-exposure may cause liver and kidney injury IARC classifies whole diesel fuel exhaust particulates as probably carcinogenic to humans (Group 2A). NIOSH regards whole diesel fuel exhaust particulates as a potential cause of occupational lung cancer based on animal studies and limited evidence in humans.

Component:

Fuels, diesel, No 2; Gasoil - unspecified	68476-34-6	Acute oral toxicity: LD50 rat Dose: 5,001 mg/kg Acute dermal toxicity: LD50 rabbit Dose: 2,001 mg/kg Acute inhalation toxicity: LC50 rat Dose: 7.64 mg/l Exposure time: 4 h Skin irritation: Classification: Irritating to skin. Result: Severe skin irritation Eye irritation: Classification: Irritating to eyes. Result: Mild eye irritation
Naphthalene	91-20-3	Acute oral toxicity: LD50 rat

		Dose: 2,001 mg/kg Acute dermal toxicity: LDSO rat Dose: 2,501 mg/kg Acute inhalation toxicity: LC50 rat Dose: 101 mg/l Exposure time: 4 h Skin irritation: Classification: Irritating lo skin. Result: Mild skin irritation Eye irritation: Classification: Irritating lo eyes. Result: Mild eye irritation Carcinogenicity: N11.00422130
Xylene	1330-20-7	Acute oral toxicity: LDSO rat Dose: 2,840 mg/kg Acute dermal toxicity: LOSO rabbit Dose: ca. 4,500 mg/kg Acute inhalation toxicity: LC50 ral Dose: 6,350 mg/l Exposure time: 4 h Skin irritation: Classification: Irritating lo skin. Result: Mild skin irritation Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product. Eye irritation: Classification: Irritating to eyes. Result: Mild eye irritation
Nonane	111-84-2	Acute oral toxicity: LDSO mouse Dose: 218 mg/kg Acute inhalation toxicity: LC50 rat Exposure time: 4 h
1,2,4-Trimelhylbenzene	95-63-6	Acute inhalation toxicity: LCSO rat Dose: 18 mg/l Exposure time: 4 h Skin irritation: Classification: Irritating to skin. Result: Skin irritation Eye irritation: Classification: Irritating to eyes. Result: Eye irritation
Sulfur	7704-34-9	Acute oral toxicity: LOSO rat Dose: 5,001 mg/kg Acute dermal toxicity: LOSO rabbit Dose: 2,001 mg/kg Acute inhalation toxicity: LC50 rat Dose: 9.24 mg/l Exposure time: 4 h Eye irritation: Classification: Irritating to eyes. Result: Mild eye irritation

SECTION 12. ECOLOGICAL INFORMATION

Biochemical Oxygen Demand (BOD)	:	No data available

Chemical Oxygen Demand (COD)	:	No data available
Adsorbed organic bound halogens (AOX)	:	Not included
Additional ecological information	:	Keep out of sewers, drainage areas, and waterways. Report spills and releases, as applicable, under Federal and State regulations.

Component:

Naphthalene	91-20-3	Toxicity to algae: EC50 Species: Dose: 33 mg/l Exposure time: 24 h
1,2,4-Trimethylbenzene	95-63-6	Toxicity to fish: LC50 Species: Pimephales promelas (fathead minnow) Dose: 7.72 mg/l Exposure time: 96 h Acute and prolonged toxicity for aquatic invertebrates: EC50 Species: Daphnia Dose: 3.6 mg/l Exposure time: 48 h
Sulfur	7704-34-9	Acute and prolonged toxicity for aquatic invertebrates: EC0 Species: Daphnia magna (Water flea) Dose: > 10,000 mg/l Exposure time: 24 h

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal : Consult federal, state and local waste regulations to determine appropriate waste characterization of material and allowable disposal methods.

SECTION 14. TRANSPORT INFORMATION

CFR

Proper shipping name	: DIESEL FUEL
UN-No.	: 1202 (NA 1993)
Class	: 3
Packing group	: III

TDG

Proper shipping name	: DIESEL FUEL
UN-No.	: UN1202 (NA 1993)
Class	: 3
Packing group	: III

IATA Cargo Transport

UN UN-No.	: UN1202 (NA 1993)
Description of the goods	: DIESEL FUEL
Class	: 3
Packaging group	: III

ICAO-Labels	: 3
Packing instruction (cargo aircraft)	: 366
Packing instruction (cargo aircraft)	: Y344

IATA Passenger Transport

UN UN-No.	: UN1202 (NA 1993)
Description of the goods	: DIESEL FUEL
Class	: 3
Packaging group	: III
ICAO-Labels	: 3
Packing instruction (passenger aircraft)	: 355
Packing instruction (passenger aircraft)	: Y344

IMDG-Code

UN-No.	: UN 1202 (NA 1993)
Description of the goods	: DIESEL FUEL
Class	: 3
Packaging group	: III
IMDG-Labels	: 3
Ems Number	: F-ES-E
Marine pollutant	: No

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Combustible Liquid
Toxic by ingestion
Severe skin irritant
Moderate eye irritant
Possible Cancer Hazard

CERCLA SECTION 103 and SARA SECTION 304 (RELEASE TO THE ENVIROMENT)
The CERCLA definition of hazardous substances contains a "petroleum exclusion" clause which exempts crude oil. Fractions of crude oil, and products (both finished and intermediate) from the crude oil refining process and any indigenous components of such from the CERCLA Section 103 reporting requirements. However, other federal reporting requirements, including SARA Section 304, as well as the Clean Water Act may still apply.

TSCA Status : On TSCA Inventory

DSL Status : All components of this product are on the Canadian DSL list.

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard
Chronic Health Hazard

SARA III US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals {40 CFR 372.65) - Supplier Notification Required

Components	GAS-No.
Naphthalene	91-20-3

Xylene	1330-20-7
1,2,4-trimethylbenzene	95-63-6

PENN RTK US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

Components	CAS-No.
Sulfur	7704-34-9
1,2,4-trimethylbenzene	95-63-6
Nonane	111-84-2
Xylene	1330-20-7
Naphthalene	91-20-3
Fuels, diesel, No 2; Gasoil - unspecified	68476-34-6

MASS RTK US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

Components	CAS-No.
Sulfur	7704-34-9
1,2,4-Trimethylbenzene	95-63-6
Nonane	111-84-2
Xylene	1330-20-7
Naphthalene	91-20-3

NJ RTK US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:SA-5)

Components	CAS-No.
Sulfur	7704-34-9
1,2,4-Trimethylbenzene	95-63-6
Nonane	111-84-2
Xylene	1330-20-7
Naphthalene	91-20-3
Fuels, diesel, No 2; Gasoil - unspecified	68476-34-6

California Prop. 65 : WARNING! This product contains a chemical known to the State of California to cause cancer.

Naphthalene 91-20-3

ISECTION 16. OTHER INFORMATION

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in

combination with any other materials or in any process, unless specified in the text.

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