ANNUAL ELECTRIC GENERATOR REPORT

Form Approved OMB No. 1905-0129

Approval Expires: 12/31/2013

Burden: 9.4 hours

NOTICE: This report is **mandatory** under the Federal Energy Administration Act of 1974 (Public Law 93-275). Failure to comply may result in criminal fines, civil penalties and other sanctions as provided by law. For further information concerning sanctions and disclosure information, see the provisions stated on the last page of the instructions. **Title 18 USC 1001 makes it a criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction.**

SCHEDULE 1. I	DENTIFICATION
Survey	Contact
First Name:	Last Name:
Title:	Address:
Phone (include extension):	Fax:
Email:	
	ct Person for Survey
First Name:	Last Name:
Title:	Address:
Phone (include extension):	Fax:
Email:	
Repo	ort For
Operator Name:	
Operator ID:	
Reporting as of December 31 of year:	
Operator and Pre	parer Information
Legal Name of Operator:	
Current Address of Principal Business Office of Plant Operator	or:
Preparer's Legal Name (If Different From Operator's Legal Na	nme):
Current Address of Preparer's Office (If Different From Current	nt Address of Principal Business Office of Entity):
Is the Operator an Electric Utility?	[] Yes
For questions or additional information about the Form EIA-86	60, contact the survey staff:
Patricia Hutchins	Vlad Dorjets

Patricia Hutchins
Telephone Number: (202) 586-1029
Fax Number: (202) 287-1960
Email: Patricia.Hutchins@eia.gov

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Fax Number: (202) 287-1960
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U.S. Department of Energy

ANNUAL FLECTRIC

Form Approved OMB No. 1905-0129

	ergy Informatio A-860 (2011)	n Administration	GENERAT	Approval Expir Burden: 9.4 ho	res: 12/31/2	013					
Operato	r Name:										
Operator	r ID:	-		Reporting a	s of Dec	ember 31 of Yea	ır:				
(EXIST	ING POWER PI	S LANTS AND THOS	CHEDULE 2. POW E PLANNED FOR			CIAL OPERATIO	N WITHIN 1	0 YEARS)			
LINE				PLANT 1							
1	Plant Name			IA Plant Code							
2	Street Address										
3	County Name		City Name								
4	State										
5	Zip Code										
6	Latitude (Degr Seconds)	rees, Minutes,	s, Minutes,								
7	Enter Datum fo	or Latitude and Lo	'UNK"								
8a	NERC Region	nter Datum for Latitude and Longitude, if Known; Otherwise Enter "UNK" ERC Region									
8b	Does this Plan	nt Belong to a RTO	or ISO?				[] Yes	[] No			
8c	Name of RTO	or ISO [] Calif [] Sout [] PJM [] ISO I	ctric Reliability dwest ISO w York ISO ner	Council of	Гexas						
9	Name of Water	r Source (For Purp	ose of Cooling or	Hydroelec	tric)						
10	Steam Plant S	tatus [] existing	[] planı	ned	[] retired	[]	NA			
11	Steam Plant T		nbustible 100 MW nbustible 10 MW o	_			-	nte capacity			
12	Primary Purpo Code)	ose of the Plant (No	orth American Ind	lustry Class	ification	n System					
13	Facility (QF) C	t have Federal End ogenerator status sing a comma.					[]Yes	[]No			
14	Facility (QF) S	nt have Federal End mall Power Produce parate by using a		[]Yes	[] No						
15	Facility (QF) E	t have Federal End xempt Wholesale eparate by using a	Generator status?				[]Yes	[]No			
16a	Owner of Tran	smission and/or D		-							
16b	Grid Voltage (i	in kilovolts)									

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Form Approved

	ergy Information A-860 (2011)	n Administration	ANNUA GENERA	OMB No. 1905 Approval Expi Burden: 9.4 h	res: 12/31/2	013			
	r Name: r ID:			Reportin	g as of Dec	ember 31 of Yea	ır:		
(EXIST	ING POWER PL	S ANTS AND THOS	CHEDULE 2. PO SE PLANNED FO			IAL OPERATIO	N WITHIN 1	0 YE	ARS)
LINE				PLANT 2	•				
1	Plant Name			EIA Plant Code					
2	Street Address								
3	County Name			City Name	е		1		
4	State								
5	Zip Code								
6	Latitude (Degree Seconds)	ees, Minutes,	, Minutes,						
7	Enter Datum fo	or Latitude and Lo	ngitude, if Know	n; Otherw	ise Enter "	UNK"			
8a	NERC Region								
8b	Does this Plan	t Belong to a RTC	or ISO?				[] Yes	[] No
8c	Name of RTO	or ISO [] Sout	ornia ISO thwest Power Po Interconnection New England		[] Mid	ctric Reliability west ISO v York ISO er	Council of	Texas	s
9	Name of Water	Source (For Purp	oose of Cooling o	or Hydroe	lectric)				
10	Steam Plant St	atus [] existing	[] pl	anned	[] retired	[]] NA	
11	Steam Plant Ty		nbustible 100 MV nbustible 10 MW		_		-	ate ca	apacity
12	Primary Purpo Code)	se of the Plant (N	orth American In	dustry Cl	assification	System			
13		t have Federal En ogenerator status sing a comma.					[] Yes	I	[]No
14	Facility (QF) S	t have Federal En mall Power Produ parate by using a		[] Yes	ı	[] No			
15	Facility (QF) E	t have Federal En xempt Wholesale parate by using a	Generator status				[] Yes	ı	[] No
16a	Owner of Trans	smission and/or [Distribution Facil	ities					
16b	Grid Voltage (i	wner of Transmission and/or Distribution Facilities							

ANNUAL ELECTRIC GENERATOR REPORT

Form El	A-860 (2011)			GENERA	PORT	Approval Expires: 12/31/2013 Burden: 9.4 hours				
Operator	· Name:	ne:								
Operator	· ID:	-			Repor	ting as of De	cember	31 of Yea	ır:	
(EXIST	ING POWER PI	LANTS AI		SCHEDULE 2. PO SE PLANNED FO			CIAL O	PERATIO	N WITHIN 1	I0 YEARS)
LINE					PLAN	Г3				
1	Plant Name				EIA Pla Code	nt				
2	Street Address									
3	County Name				City Na	me				
4	State									
5	Zip Code									
6	Latitude (Degr Seconds)	ees, Minu	utes,		Longit Secon	ude (Degree ds)	es, Minu	ites,		
7	Enter Datum fo	or Latitud	le and Le	ongitude, if Knov						
8a	NERC Region									
8b	Does this Plan	t Belong	to a RT		[] Yes	[] No				
8c	Name of RTO	or ISO	[]Sou []PJN	fornia ISO hthwest Power Po I Interconnection New England	teliability ISO ISO	Council of	Texas			
9	Name of Water	r Source	(For Pur	pose of Cooling	or Hydr	oelectric)				
10	Steam Plant St	tatus		[] existing	[]	planned	[] retired	[]] NA
11	Steam Plant T	ype		mbustible 100 M\ mbustible 10 MW		-	-	-	-	ate capacity
12	Primary Purpo Code)	se of the	Plant (N	Iorth American Ir	ndustry	Classificatio	on Syste	em		
13		ogenerat	or status	nergy Regulatory s? If Yes, provid				fying	[] Yes	[]No
14	Facility (QF) S	mall Pow	nave Federal Energy Regulatory Commission (FERC) Qualifying all Power Producer status? If Yes, provide all QF docket arate by using a comma.							[]No
15	Facility (QF) E	plant have Federal Energy Regulatory Commission (FERC) Qualifying F) Exempt Wholesale Generator status? If Yes, provide all QF docket . Separate by using a comma.							[] Yes	[]No
16a	Owner of Tran	of Transmission and/or Distribution Facilities							•	
16b	Grid Voltage (i	r of Transmission and/or Distribution Facilities /oltage (in kilovolts)								

U.S. Department of Energy U.S. Energy Information Administration

ANNUAL ELECTRIC GENERATOR REPORT

Form El	A-860 (2011)		GLNEKATO	Burden: 9.4 h		013			
Operator	· Name:								
Operator	· ID:	-	i	Reporting	as of Dec	ember 31 of Yea	ar:		
(EXIST	ING POWER PI	SO ANTS AND THOS	CHEDULE 2. POW E PLANNED FOR I			CIAL OPERATIO	N WITHIN 1	0 YEARS)	
LINE			Р	LANT 4					
1	Plant Name			A Plant ode					
2	Street Address		·						
3	County Name		Ci	ty Name					
4	State								
5	Zip Code								
6	Latitude (Degr Seconds)	ees, Minutes,		ongitude econds)	(Degrees	s, Minutes,			
7	Enter Datum fo	or Latitude and Lo	ngitude, if Known;	Otherwi	se Enter "	'UNK"			
8a	NERC Region								
8b	Does this Plan	t Belong to a RTO	or ISO?				[] Yes	[] No	
8c	Name of RTO	or ISO [] Sout	ornia ISO hwest Power Pool Interconnection New England		[] Mic	ctric Reliability Iwest ISO w York ISO ner	Council of	Texas	
9	Name of Water	r Source (For Purp	ose of Cooling or	Hydroele	ectric)				
10	Steam Plant St	tatus [] existing	[] pla	nned	[] retired	ired [] NA		
11	Steam Plant T		bustible 100 MW on the stible 10 MW or				-	ate capacity	
12	Primary Purpo Code)	se of the Plant (No	orth American Indu	ıstry Cla	ssification	n System			
13	Facility (QF) C	t have Federal End ogenerator status sing a comma.					[] Yes	[]No	
14	Facility (QF) S	t have Federal End mall Power Produc parate by using a		[] Yes	[]No				
15	Facility (QF) E	t have Federal End xempt Wholesale (eparate by using a	Generator status?				[] Yes	[]No	
16a	Owner of Tran	wner of Transmission and/or Distribution Faciliti							
16b	Grid Voltage (i	n kilovolts)							

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Form El	A-860 (2011)			Burden: 9					xpires: 12/31/2013 4 hours				
Operator	· Name:												
Operator	· ID:	-			Repor	ting as o	of Dece	mber	31 of Ye	ar:			
				CHEDULE 2. PO									
(EXIST	ING POWER PI	LANTS AN	ND THOSI	E PLANNED FO	R INITIA	AL COM	MERCI	AL O	PERATIO	N NC	ITHIN	10 YE.	ARS)
LINE					PLAN	Γ5							
1	Plant Name				EIA Pla Code	nt							
2	Street Address												
3	County Name			me									
4	State												
5	Zip Code												
6	Latitude (Degr Seconds)	ees, Minu	ites,		Longit Secon	ude (De ds)	grees,	Minu	tes,				
7	Enter Datum fo	or Latitud	e and Lor	ngitude, if Knov	vn; Othe	rwise E	nter "l	JNK"					
8a	NERC Region												
8b	Does this Plan	t Belong	to a RTO	or ISO?						[]	Yes	[] No
8c	Name of RTO	or ISO	[] California ISO [] Electric Reliabilit								ıncil of	Texas	8
9	Name of Water	r Source ((For Purp	ose of Cooling	or Hydr	oelectri	c)						
10	Steam Plant S	tatus	[] existing	[]	planne	d	[] retired	i	[] NA	
11	Steam Plant T	-		bustible 100 MV bustible 10 MW		_		_	_	-		late ca	pacity
12	Primary Purpo Code)	se of the	Plant (No	rth American Ir	ndustry	Classifi	cation	Syste	em				
13	<i>.</i>	ogenerate	or status?	ergy Regulatory P If Yes, provid					fying	[] Yes	i] N o
14	Facility (QF) S	plant have Federal Energy Regulatory Commission (FERC) Qualifying RF) Small Power Producer status? If Yes, provide all QF docket). Separate by using a comma.							fying	[] Yes	ı	[] N o
15	Does this plant have Federal Energy Regulatory Commissic Facility (QF) Exempt Wholesale Generator status? If Yes, pnumber(s). Separate by using a comma.									[] Yes	I] N o
16a	Owner of Transmission and/or Distribution Facilities								•				
16b	Grid Voltage (i	er of Transmission and/or Distribution Fac Voltage (in kilovolts)											

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Form El	A-860 (2011)		Burden: 9.4 ho	ours						
Operator	Name:				_					
Operator	r ID:		Repor	ting as of De	ecember 31 of Yea	r:				
(EXIST	ING POWER PI		CHEDULE 2. POWER PI E PLANNED FOR INITIA			N WITHIN 10	YEARS)			
LINE			PLAN	6						
1	Plant Name		EIA Pla Code	nt						
2	Street Address									
3	County Name		City Na							
4	State									
5	Zip Code									
6	Latitude (Degr Seconds)	ees, Minutes,	Longit Secon		es, Minutes,					
7	Enter Datum fo	or Latitude and Lo	ngitude, if Known; Othe	rwise Enter	"UNK"					
8a	NERC Region									
8b	Does this Plan	t Belong to a RTO	or ISO?			[] Yes	[] No			
8c	Name of RTO	or ISO [] PJM	ornia ISO hwest Power Pool Interconnection New England	lectric Reliability lidwest ISO ew York ISO ther	Council of T	exas				
9	Name of Water	r Source (For Purp	ose of Cooling or Hydro	pelectric)						
10	Steam Plant S	tatus [] existing []	planned	[] retired	etired [] NA				
11	Steam Plant T		bustible 100 MW or mo	•	•	city				
12	Primary Purpo Code)	ese of the Plant (No	orth American Industry	Classificatio	on System					
13		ogenerator status	ergy Regulatory Commi ? If Yes, provide all QF			[] Yes	[]No			
14	Facility (QF) S	mall Power Produc	lave Federal Energy Regulatory Commission (FERC) Qualifying all Power Producer status? If Yes, provide all QF docket arate by using a comma.							
15	Facility (QF) E		ergy Regulatory Commi Generator status? If Ye comma.			[] Yes	[]No			
16a	Owner of Tran	smission and/or D	istribution Facilities							
16b	Grid Voltage (i	in kilovolts)								

U.S. E	Department of Energy Energy Information Administration EIA-860 (2011)		NUAL ELEC ERATOR RE		Form Approved OMB No. 1905-0129 Approval Expires: 12/31/2013 Burden: 9.4 hours					
Oper	ator Name:									
Oper	ator ID:		Repor	ting as of Dec	ember 31 of Y	ear:				
		HEDULE 3. GI SE PLANNED				ON WITHIN 10	YEARS)			
	SCHEDULE 3, PA (COMPLETE O					RS				
1	Plant Name									
2	EIA Plant Code									
		Genera	tor (a)	Gener	ator (b)	Genera	itor (c)			
3	Operator's Generator Identification									
4	Associated Boiler Identifications	1 2 3 4	5 6 7 8	1 2 3 4	5 6 7 8	1 2 3 4	5 6 7 8			
5	Prime Mover									
6	Unit Code (Multi-Generator Code)									
7	Ownership									
8	Is This Generator an Electric Utility Generator?	[] Yes	[] No	[] Yes	[] No	[] Yes	[] No			
9	Date of Sale If Sold (MM-YYYY)									
10	Can This Generator Deliver Power to the Transmission Grid?	[] Yes	[] No	[]Yes	[] No	[] Yes	[] No			
11	For Combined-Cycle Steam Turbines (i.e. Prime Mover = CA, CS or CC) Does this Generator Have Duct-Burners?	[]Yes	[] No	[]Yes	[] No	[]Yes	[] No			

U.S. E Form	Department of Energy Energy Information Administra EIA-860 (2011)		ANNUAL ELECTRIC GENERATOR REPORT OMB No. 1905-0129 Approval Expires: 12/31/2013 Burden: 9.4 hours Operator ID:										
•	ator Name:												
	Name:						Pla	ant Cod	e:		_		
керо	orting as of December 31 of Yea		CENE	ATOD	INEOD	MATIO	N EV	ISTING	GENE	DATOE	96		
	(COMPLE										.3		
	(Genera			1	Genera	· · ·		1	Genera	ator (c)	
1	Generator Nameplate Capacity (Megawatts)												
		Summ	er:			Summ	er:			Summ	er:		
2	Net Capacity (Megawatts)	Winter	r:			Winter	:			Winter	:		
3a	Maximum Expected Reactive Power Output (MVAR)												
3b	Maximum Reactive Power Absorption (MVAR)												
4	Status Code												
5	If Status Code is Standby, Can the Generator be Synchronized to the Grid?	[]] Yes	[]	No	[] Yes	[]	No	[]	Yes	[]	No
6	Initial Date of Operation (MM-YYYY)												
7	Retirement Date (MM-YYYY)									_			
8a	Is This Generator Associated with a Combined Heat and Power System?	[]] Yes	[]	No	[]	Yes	[]	No	[]	Yes	[]	No
8b	If Yes, Is This Generator Part of a Topping or Bottoming Cycle?		[] To [] Bot		J		[] To [] Bot		l		[] To [] Bot	pping toming	ļ
	ENERGY SOURCES												
9a	Predominant Energy Source												
9b	If coal-fired or petroleum coke fired, check all combustion technologies that apply to the associated boiler(s) and steam conditions	[] F [] S [] S [] U	ulveriz luidized ub-crit uper-cu ltra su arbon-	d Bed ical ritical per-crit	ical	[] F [] S [] S	Pulveriz Fluidize Sub-crit Super-c Jitra su Carbon	ed Bed tical critical per-cri	tical	[] F [] S [] S [] U	Fluidize Sub-crit Super-c Ultra su	tical	tical
10	Start-Up and Flame Stabilization Energy Sources	а	b	С	d	а	b	С	d	а	b	С	d
11	Second Most Predominant Energy Source												
		а	b	С	d	а	b	С	d	а	b	С	d

12 Other Energy Sources

U.S. E	Department of Energy Energy Information Administra EIA-860 (2011)	ition	ANNUAL ELECTRIC GENERATOR OF REPORT						Form Approved OMB No. 1905-0129 Approval Expires: 12/31/2013 Burden: 9.4 hours								
Oper	ator Name:								Op	era	tor ID:						
Plant	Name:											Generator (c)					
Repo	rting as of December 31 of Year	r:															
	SCHEDULE 3, PA (COMPLE												ORS				
	·		Gene						Senera				Gen	era	tor ((c)	
13	Is This Generator Part of a Solid Fuel Gasification System?	[] Yes		[] No	[:]	Yes	I	[] No		[]Yes	\$	[] N	0
14	Number of Turbines, Buoys, or Inverters																
15a	Tested Heat Rate																
15b	Fuel Used For Heat Rate Test																
16	Annual Average Operating Efficiency for Solar Photovoltaic, Wind and Hydroelectric Generators																
	PROPOSED CHANGES TO EX	KISTIN	IG GEI	NEI	RAT	ORS (W	/ITHIN	1 TH	IE NE	XT	10 YEAR	S)					
17a	Are There Any Planned Modifications to This Generator, Including Retirement?	[] Yes		[]	No		[]	Yes	[] No		[]Ye	S	[]	No)
	Planned Uprates:																
	1. Incremental Net Summer capacity (MW)																
17b	2. Incremental Net Winter capacity (MW)																
	3. Planned Effective Date (MM-YYYY)																
	Planned Uprates:																
	1. Incremental Net Summer capacity (MW)																
17c	2. Incremental Net Winter capacity (MW)																
	3. Planned Effective Date (MM-YYYY)																
	Planned Repowering:																
	1. New Prime Mover																
17d	2. New Energy Source																
170	3. New Nameplate Capacity																
	4. Planned Effective Date (MM-YYYY)																
4-	Other Modifications? (explain in Notes)	[] Yes	;	[]	No		[]	Yes	[] No		[] Ye	S	[]	No)
17e	Planned Effective Date (MM- YYYY)																

ANNUAL ELECTRIC GENERATOR REPORT

. 0	ZIA 000 (Z011)			KLI OI	\ <i>1</i>		Burden: 9					
Oper	ator Name:					Operato	or ID:					
Plant	Name:					Plant C	ode:					
Repo	rting as of December 31 of Yea											
	SCHEDULE 3, PA (COMPLE											
		G	enerator	(a)	Ge	enerator ((b)	Generator (c)				
17f	Planned Generator Retirement Date (MM-YYYY)											
	FUEL SWITCHING AND CO-F	IRING CA	PABILIT	Υ								
18	Can This Generator be	[]	Yes [] No	[]	Yes [] No	[]	Yes [] No		
10	Powered by Multiple Fuels?		kip to SCH 3, PART C			kip to SCH 3, PART C		If No, Skip to SCHEDULE 3, PART C.				
19	Can This Unit Co-Fire	[]	Yes [] No	[]	Yes [] No	[]	Yes [] No		
13	Fuels?	If No,	Skip to Li	ne 23.	If No,	Skip to Li	ne 23.	If No,	Skip to Li	ne 23.		
		а	b	С	а	b	С	а	b	С		
20	Fuel Options for Co-Firing											
_0	Tuoi opiiono foi oo i ming	d	е	f	d	е	f	d	е	f		
21	Can This Generator be Powered by Co-Fired Fuel	[]	Yes [] No	[]	Yes [] No	[]	Yes [] No		
	Oil and Natural Gas?	If Yes,	Skip to L	ine 23.	If Yes,	Skip to L	ine 23.	If Yes,	Skip to Li	ine 23.		
	Can This Generator be Run	[]	Yes [] No	[]	Yes [] No	[]	Yes [] No		
	on 100% Oil?	If Yes,	Skip to L	ine 23.	If Yes,	Skip to L	ine 23.	If Yes,	Skip to Li	ine 23.		
22	If No, What is the Maximum Oil Heat Input When Co- Firing with Natural Gas?			%	_		%			%		
	What is the Maximum Output Achievable (Net Summer Capacity in MW) When Making the Maximum Use of Oil and Co-Firing Natural Gas?		N	1W		N	iw		M	ıw		
23	Can This Unit Fuel Switch?	[]	Yes [] No	[]	Yes [] No	[]	Yes [] No		
23	Can This One Tuel Switch:	If No, S	kip to Sch Part C.	edule 3,	If No, SI	kip to Sch Part C.	edule 3,	If No, S	kip to Sch Part C.	edule 3,		
	Can This Unit Switch Between Oil and Natural	[]	Yes [] No	[]	Yes [] No	[]	Yes [] No		
24	Gas?	If No,	Skip to Li	ne 26.	If No,	Skip to Li	ne 26.	If No,	Skip to Li	ne 26.		
	If Yes, Can the Unit Switch Fuels While Operating?	[]	Yes [] No	[]	Yes [] No	[]	Yes [] No		

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Opera	ator Name:					Operato	or ID:					
Plant	Name:					Plant C	ode:					
Repo	rting as of December 31 of Yea	r:										
	SCHEDULE 3, PA (COMPLE											
		Ge	enerator ((a)	Ge	enerator ((b)	Generator (c)				
	What is the Maximum Net Summer Output Achievable (MW) When Running on Natural Gas?		N	MW								
	What is the Maximum Net Summer Output Achievable (MW) When Running on Fuel Oil?		N	IW		N	IW		N	IW		
	How Much Time is Required to Switch This Unit From Using 100% Natural Gas to Using 100% Oil?	[] over 2 [] over 3	hours 6 to 24 ho 24 to 72 h 72 hours. own or ui	ours	[] 0 to 6 [] over 6 [] over 7 [] over 7 [] Unknown	6 to 24 ho 24 to 72 h 72 hours.	ours	[] 0 to 6 hours [] over 6 to 24 hours [] over 24 to 72 hours [] over 72 hours. [] Unknown or uncertain				
	Are There Factors That Limit the Unit's Ability to Switch From Natural Gas to Oil?	[]	Yes [Skip to Li] No ne 26.	[] If No,	Yes [Skip to Li] No ne 26.	[]	Yes [] No ne 26.		
25	If Yes, Check All Factors That Apply	storage.		ts	e fuel ts in	storage.		ts				
_		а	b	С	c a b c a b							
26	Fuel Switching Options	d	е	f	d	е	f	d	е	f		

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Oper	ator Name:						Op	erator l	D:					
	Name:		Plant Code:											
Repo	rting as of December 31 of Yea													
	SCHEDULE 3, PAI (COMPLE										RS			
	(COMPLE	IE ON	Genera			1	Genera			Generator (c)				
1	Generator Nameplate Capacity (Megawatts)			(4)				(3)				(1)		
2	Net Capacity (Megawatts)	Sumn	ummer:		Summ	er:			Summ	er:				
	iver capacity (megawatts)	Winte	r:			Winter:				Winter:				
3a	Maximum Expected Reactive Power Output (MVAR)													
3b	Maximum Reactive Power Absorption (MVAR)													
4	Status Code													
5	Planned Original Effective Date (MM-YYYY)													
6	Planned Current Effective Date (MM-YYYY)													
7	Will This Generator be Associated with a Combined Heat and Power System?]] Yes	[]	No	[]] Yes	[]	No	[]] Yes	[]	No	
8	Will This Generator be Part of a Solid Fuel Gasification System?	[] Yes	[]	No	[]] Yes	[]	No	[]] Yes	[]	No	
9	Is This Generator Part of a Site That Was Previously Reported as Indefinitely Postponed or Cancelled?	[] Yes	[]	No	[]] Yes	[]	No	[]] Yes	[]	No	
	PLANNED ENERGY SOURCE	S												
10	Expected Predominant Energy Source													
11	If coal-fired or petroleum coke fired, check all combustion technologies that apply to the associated boiler(s) and steam conditions	[] F [] S [] S	Pulverized coal Fluidized Bed Sub-critical Super-critical Ultra super-critical Carbon-capture		Pulverized coal Fluidized Bed Sub-critical Super-critical Ultra super-critical Carbon-capture				[] Pulverized coal [] Fluidized Bed [] Sub-critical [] Super-critical [] Ultra super-critical [] Carbon-capture					
12	Expected Second Most Predominant Energy Source													
12	Other Energy Sources	а	b	С	d	а	b	С	d	а	b	С	d	
13	Other Energy Sources													

Number of Turbines, Buoys, or Inverters

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Operator Name:		Operator ID:							
Plant Name:		Plant Code:							
Reporting as of December 31 of Year:									
SCHEDULE 3, PART C. GENERATOR INFORMATION – PROPOSED GENERATORS (COMPLETE ONE COLUMN FOR EACH GENERATOR, BY PLANT)									
	Generator (a)	Generato	Generator (c)						
·									

	FUEL SWITCHING AND CO-FIRING CAPABILITY											
15	Will This Generator be Able to be Powered by Multiple		Yes [Undeterm] No ined		Yes [Undeterm] No ined		[] Yes [] No [] Undetermined			
13	Fuels?		Jndetermi SCHEDUL			Jndetermi SCHEDUL		If No or Undetermined, Skip to SCHEDULE 4.				
16	Will this Unit be Able to Co-	[]	Yes [] No	[]	Yes [] No	[] Yes [] No				
10	Fire Fuels?	If No,	Skip to Li	ne 20.	If No,	Skip to Li	ne 20.	If No, Skip to Line 20.				
		а	b	С	а	b	С	а	b	С		
17	Fuel Options for Co-Firing	d	е	f	d	е	f	d	е	f		
18	Will This Generator be Able to be Powered by Co-Fired	[]	Yes [] No	[]	Yes [] No	[]Yes []No				
	Fuel Oil and Natural Gas?	If No,	Skip to Li	ne 20.	If No,	Skip to Li	ne 20.	If No,	Skip to Li	ne 20.		
	Will This Generator be able to Run on 100% Oil?	[]	Yes [] No	[]	Yes [] No	[]	Yes [] No		
		If Yes,	, Skip to L	ine 20.	If Yes,	Skip to L	ine 20.	If Yes,	, Skip to L	ine 20.		
19	If No, What is the Expected Maximum Oil Heat Input When Co-Firing with Natural Gas?	_		%	_		%	%				
	What is the Expected Maximum Output Achievable (Net Summer Capacity in MW) When Making the Maximum Use of Oil and Co-Firing Natural Gas?	_	N	١w		N	IW	MW				
20	Will This Unit be Able to	[]	Yes [] No	[]	Yes [] No	[] Yes [] No				
20	Fuel Switch?	If No, S	kip to Sch	edule 4.	If No, S	kip to Sch	edule 4.	If No, S	kip to Sch	edule 4.		
21	Will This Unit be Able to	[]	Yes [] No	[]	Yes [] No	[] Yes [] No				
	Switch Between Oil and Natural Gas?	If No,	Skip to Li	ne 23.	If No,	Skip to Li	ne 23.	If No,	Skip to Li	ne 23.		

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Opera	ator Name:				Operator ID:								
Plant	Name:				DI 10 I								
Repo	rting as of December 31 of Yea	r:											
	•						OSED GENERATORS R, BY PLANT)						
		G	enerator ((a)	Ge	enerator ((b)	Generator (c)					
	If Yes, Will this Unit be Able to Switch Fuels While Operating?	[]	Yes [] No	[]	Yes [] No	[]	Yes [] No			
	What is the Expected Maximum Net Summer Output Achievable (MW) When Running on Natural Gas?	_	N	iw		N	ıw	MW					
	What is the Expected Maximum Net Summer Output Achievable (MW) When Running on Fuel Oil?		MW		MW			MW					
	How Much Time is Expected to be Required to Switch This Unit From Using 100% Natural Gas to Using 100% Oil?	[] over [] over [] over	hours 6 to 24 ho 24 to 72 h 72 hours. own or u	nours	[] 0 to 6 hours [] over 6 to 24 hours [] over 24 to 72 hours [] over 72 hours. [] Unknown or uncertain			[] 0 to 6 hours [] over 6 to 24 hours [] over 24 to 72 hours [] over 72 hours. [] Unknown or uncertain					
	Are There Factors That Will Limit the Unit's Ability to Switch From Natural Gas to		Yes [Yes [[] Yes [] No If No, Skip to Line 26.					
22	Oil? If Yes, Check All Factors That Apply	storage.		ts	[] Limited on site fuel storage. [] Air Permit limits [] Other (specify in SCHEDULE 7. COMMENTS)			[] Limited on site fuel storage. [] Air Permit limits [] Other (specify in SCHEDULE 7. COMMENTS)					
	a b c					b	С	а	b	С			
23	Fuel Switching Options	d	е	f	d	е	f	d	е	f			

ANNUAL ELECTRIC GENERATOR REPORT

,		Burden: 9.4 hours								
Operator Name:										
Operator ID:		Reporting as of December 31 of Y	′ear:	_						
SCHEDULE 4. OWNER:	SHIP OF GEN	NERATORS OWNED JOINTLY OR BY C	OTHERS							
PLANT NAME (a)										
EIA PLANT CODE (b)										
OPERATOR'S GENERATOR IDENTIFICATION	TION (c)									
IF JOINTLY OWNE	D – OWNER	NAME AND CONTACT INFORMATION	(d)							
Owner/Joint Owner 1: Name			% OWNED (e):							
Street Address			<u> </u>							
City, State and Zip Code			EIA CODE:							
Joint Owner 2: Name			% OWNED (e):							
Street Address										
City, State and Zip Code			EIA CODE:							
Joint Owner 3: Name			% OWNED (e):							
Street Address			· / L							
City, State and Zip Code			EIA CODE:							
Joint Owner 4: Name			% OWNED (e):							
Street Address										
City, State and Zip Code			EIA CODE:							
Joint Owner 5: Name			% OWNED (e):							
Street Address										
City, State and Zip Code			EIA CODE:							
Joint Owner 6: Name			% OWNED (e):							
Street Address										
City, State and Zip Code			EIA CODE:							
Joint Owner 7: Name			% OWNED (e):							
Street Address										
City, State and Zip Code			EIA CODE:							
Joint Owner 8: Name			% OWNED (e):							
Street Address										
City, State and Zip Code			EIA CODE:							
Joint Owner 9: Name			% OWNED (e):							
Street Address			,							
City, State and Zip Code			EIA CODE:							
Joint Owner 10: Name			% OWNED (e):							
Street Address										
City, State and Zip Code			EIA CODE:							
			Total	100%						

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U.S. Energy Information Administration
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ANNUAL ELECTRIC GENERATOR Form Approved OMB No. 1905-0129

orm EIA	-860 (2011)	REPORT		Approval Expires: 12/31/2013 Burden: 9.4 hours				
Operator	Name:							
Operator	ID:	Reportin	g as of Dece	mber 31 of Yea	r:			
	SCHEDULE 5. NEW G (COMPLETE FOR EACH GENERA	ENERATOR INTERCOL TOR ENTERING SERV						
LINE								
1	Plant Name and EIA Plant Code	Name:	Name:		Name:			
	Conservator ID	Code:	Code:		Code:			
2	Generator ID							
3	Date of Actual Generator Interconnection (MM-YYYY)							
4	Date of Initial Interconnection Request (MM-YYYY)							
5	Interconnection Site Location	City:	City:		City:			
		State:	State:		State:			
6	Grid Voltage At The Point Of Interconnection (kV)							
7	Owner of The Transmission or Distribution Facilities to Which Generator is Interconnected							
8	Total Cost Incurred for the Direct, Physical Interconnection (Thousa \$)	nd						
	Equipment Included in the Direct Interconnection Cost (Check All o the Following that Apply:)	f						
	a. Transmission or Distribution Li	ne []Yes []N	o []Y	es [] No	[] Yes	[] No		
9	b. Transformer	[] Yes [] N	o []Y	es [] No	[] Yes	[] No		
	c. Protective Devices	[] Yes [] N	o []Y	es [] No	[] Yes	[] No		
	d. Substation or Switching Station	[] Yes [] N	o []Y	es [] No	[] Yes	[] No		
	e. Other Equipment (specify in SCHEDULE 7. COMMENTS)	[] Yes [] N	o []Y	es []No	[] Yes	[] No		
10	a. Total Cost for Other Grid Enhancements/ Reinforcements Needed to Accommodate Power Deliveries From the Generator (Thousand \$)							
	b. Will This Cost Be Repaid?	[] Yes [] N	o []Y	es [] No	[] Yes	[] No		
11	Were Specific Transmission Use Rights Secured as a Result of the Interconnection Costs Incurred?	[] Yes [] N	o []Y	es []No	[]Yes	[] No		

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Opera	ator Name:						0	pera	ator ID:_			
Plant	Name:			Plant Code:								
Repo	rting as of December 31											
	SCHEDULE 6. BOILER INFORMATION PART A. PLANT CONFIGURATION (FOR PLANTS EQUAL TO OR GREATER THAN 10 MW BUT LESS THAN 100 MW, COMPLETE ONLY LINES 1, 2, 3, AND IF APPLICABLE LINES 5 AND 6) EQUIPMENT EQUIPMENT EQUIPMENT EQUIPMENT EQUIPMENT											
LINE	EQUIPMENT TYPE	EQUIPMEN IDENTIFICAT (a)			CATION	IDENTI			IDENTIF		EQUIPMENT IDENTIFICATION (e)	
1	Boiler ID											
2	Associated Generator(s) ID											
3	Generator Associations with Boiler as Actual or Theoretical											
4	Associated Cooling System(s) ID											
5	Associated Flue Gas Particulate Collector(s) ID											
6	Associated Flue Gas Desulfurization Unit(s) ID											
7	Associated Flue(s) ID											
_ A	Associated Stack(s)											

U.S. Ener	artment of Energy rgy Information Administration -860 (2011)	ANN	UAL EL	ECTRIC REPOR		NERATOR	Form Approved OMB No. 1905-0129 Approval Expires: 12/31/2013 Burden: 9.4 hours				
Operator	Name:					(Operator ID:				
Plant Nar	me:					F	Plant Code:				
Reporting	g as of December 31 of Year:										
	SCHEDULE 6, PART B (DATA NOT F (COMPLET	REQUI	RED FO	OR PLAN	TS L	ESS THAN	N 100 MW)	ARDS			
LINE						-					
1	Boiler ID										
2a	Type Of Boiler Standards Unde Operating (use codes)			D[] Da Dc[]]					
2b	Is Boiler Operating Under a New Source Review (NSR) Permit?						[] Yes	[] No			
20	If Yes, list date (MM-YYYY) and identification number of the issued permit							Permit Nu	mber		
	CATEGORY	PARTICULATE MATTER (a)				R DIOXIDE (b)		NITROGEN OXIDES (c)			
3	Type of Statute or Regulation (use codes)	FD[LO[]	ST [NA [- 1	FD[] LO[]	ST[]	FD[]	ST[] NA[]		
	Emission Standard Specified										
4a	Emission Rate										
4b	Percent Scrubbed		N/	Ά			N.				
5	Unit of Measurement Specified (use codes)										
6	Time Period Specified (use codes)										
7	Year Boiler Was or is Expected to Be in Compliance With Federal, State and/or Local Regulation										
8	If Not in Compliance, Strategy for Compliance (use codes)		N/	Ά			N/A				
9	Select Existing Strategies to meet the Sulfur Dioxide and Nitrogen Oxides Requirements of Title IV of the Clean Air Act Amendment of 1990 (use codes)		N/	'A							
10	Select Planned Strategies to meet the Sulfur Dioxide and Nitrogen Oxides Requirements of Title IV of the Clean Air Act Amendment of 1990 (use codes)		N/	'A							

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Operate	or Name:		Operator ID:						
Plant N	ame:		Plant Code:						
Reporti	ng as of December 31 of Year:								
	(Except for Lines 1 ar	PART C. BOILER INFORMATION – DE nd 2, DATA NOT REQUIRED FOR PLA PLETE A SEPARATE PAGE FOR EAC	NTS LESS THAN 100 MW)						
LINE									
1	Boiler ID								
2	Boiler Status (use codes)								
3	Boiler Actual or Projected Date o	f Commercial Operation (MM-YYYY)							
4	Boiler Actual or Projected Retire	ment Date (MM-YYYY)							
5	Boiler Manufacturer (use code)								
6	Type of Firing Used with Primary	Fuels (use codes)							
7	Maximum Continuous Steam Flow at 100 Percent Load (thousand pounds per hour)								
8	Design Firing Rate at Maximum (0.1 ton per hour)	Continuous Steam Flow for Coal (near	rest						
9	Design Firing Rate at Maximum (nearest 0.1 barrels per hour)	Continuous Steam Flow for Petroleum							
10	Design Firing Rate at Maximum 0.1 thousand cubic feet per hour	Continuous Steam Flow for Gas (near	est						
11	Design Firing Rate at Maximum (specify fuel and unit in SCHEDU								
12	Design Waste Heat Input Rate at (million Btu per hour)	Maximum Continuous Steam Flow							
13	Primary Fuels Used in Order of P	redominance (use codes)							
14	Boiler Efficiency When Burning F (nearest 0.1 percent)	Primary Fuel at 100 Percent Load							
15	Boiler Efficiency When Burning F 0.1 percent)	Primary Fuel at 50 Percent Load (near	est						
16	Total Air Flow Including Excess a minute at standard conditions)	Air at 100 Percent Load (cubic feet pe	r						
17	Wet Or Dry Bottom (for coal-capa for Dry)	able boilers), (enter "W" for Wet or "D	"						
18	Fly Ash Re-injection (enter "Y" fo	or Yes or "N" for No)							

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Opera	ator Name:			0	perator ID:						
Plant	Name:										
	rting as of December 31 of Year:										
	SCHEDULE 6, PART D. BOILER INFORMATION – NITROGEN OXIDE EMISSION CONTROLS (COMPLETE A SEPARATE PAGE FOR EACH BOILER)										
1	Boiler ID										
2	Nitrogen Oxide Control Status (use codes)										
	NITROGEN O	XIDE	CONTROL EQUIPMENT	AND OR	PROCESS						
3	Low Nitrogen Oxide Control Proces (use codes)	ss									
4	Manufacturer of Low Nitrogen Oxid Control Burners (use code)	le									
	SCHEDULE 6, PART E. E	BOIL	ER INFORMATION - MER	CURY E	MISSION CONTROLS						
1	Does This Boiler Have Mercury Emission Controls?		Yes[]		No []						
2	If "Yes," Select Up To Three Mercu Emission Controls (use codes)	ry									

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Operator	Name:		Operator ID:						
Plant Nam	ne:	F	Plant Code:						
Reporting	as of December 31 of Year:								
	(DATA NOT F	COOLING SYSTEM INFORMATION - DE REQUIRED FOR PLANTS LESS THAN SEPARATE PAGE FOR EACH COOLI	l 100 MW)						
LINE	(**************************************		,						
1	Cooling System ID (as reported	on SCHEDULE 6, PART A, Line 4)							
2	Cooling System Status (use codes)								
3	Cooling System Actual or Projected In-Service Date of Commercial Operation (MM-YYYY)								
4a	Type of Cooling System (use co	odes)							
4b	For Hybrid Cooling Systems, Indicate Percent of Cooling Load Served by Dry Cooling Components.								
5a	Source (Name) of Cooling Water Including Makeup Water (if discharge is into different water body, specify in SCHEDULE 7. COMMENTS)								
5b	Type of Cooling Water Source (use codes)								
5c	Type of Cooling Water (use coo	des)							
6	Design Cooling Water Flow Rat	te at 100 percent Load at Intake (cubi	c feet per second)						
7	Actual or Projected In-Service I Equipment (MM-YYYY)	Date for Chlorine Discharge Control	Structures and						
		COOLING PONDS							
8	Actual or Projected In-Service I 1982)	Date (month and year of commercial	operation, e.g. 12-						
9	Total Surface Area (acres)								
10	Total Volume (acre-feet)								
		COOLING TOWERS							
11	Actual or Projected In-service [Date (MM-YYYY)							
12	Type of Towers (use codes)								
13	Maximum Design Rate of Water Flow at 100 Percent Load (cubic feet per second)								
14		at 100 Percent Load (megawatts)							
		SYSTEM EXCLUDING LAND AND CO	NDENSERS (thousand	dollars)					
15	Total System								
16	Ponds (if applicable)								

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17	Towers (if applicable)					
18	Chlorine Discharge Control Structures and Equipment (if applicable)					
COOLING WATER INTAKE AND OUTLET LOCATIONS						
	ITEM		II	NTAKE (a)		OUTLET (b)
19	Maximum Distance from Shore (feet)					
20	Average Distance below Water Surface (feet)					
21	Latitude (degrees, minutes, seconds)					
22	Longitude (degrees, minutes, seconds)					
23	Enter Datum for Latitude and L Otherwise Enter "UNK"	ongitude, if Known;				

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Operator Name:			Operator ID:	
Plant Name:			Plant Code:	
Reporting	g as of December 31 of Year:			
		S. FLUE GAS PARTICULATE COLLEC E PAGE FOR EACH FLUE GAS PART		.)
LINE				
1	Flue Gas Particulate Collector ID (as reported on SCHEDULE 6, PART A line 5)			
2	Flue Gas Particulate Collector Actual or Projected In-Service Date of Commercial Operation (e.g., 12-2001)			
3	Flue Gas Particulate Collector Status (use code)			
4	Type of Flue Gas Particulate Collector (use codes)			
5	Installed Cost of Flue Gas Particulate Collector Excluding Land (thousand dollars)			
DESIGN FUEL SPECIFICATIONS FOR ASH (AS BURNED, TO NEAREST 0.1 PERCENT BY WEIGHT)				
6	For Coal			
7	For Petroleum			
DE	SIGN FUEL SPECIFICATIONS F	OR SULFUR (AS BURNED, TO NEAR	EST 0.1 PERCENT BY	WEIGHT)
8	For Coal			
9	For Petroleum			
	DESIGN SPECIF	FICATIONS AT 100 PERCENT GENER	RATOR LOAD	
10	Collection Efficiency (to neares	st 0.1 percent)		
11	Particulate Emission Rate (pour	inds per hour)		
12	Particulate Collector Gas Exit F	Rate (actual cubic feet per minute)		
13	Particulate Collector Gas Exit 1	Temperature (degrees Fahrenheit)		

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-OIIII EIA-660 (2011)			Burden: 9.4 hours	2/3 1/2013
Operator Name: Operator ID:				_
Plant Nar	me:	P	Plant Code:	-
Reporting	g as of December 31 of Year:			
		UE GAS DESULFURIZATION UNIT - TE PAGE FOR EACH FLUE GAS DES		
LINE				
1	Flue Gas Desulfurization Unit ID (as reported on SCHEDULE 6, PART A line 6)			
2	Flue Gas Desulfurization Unit Status (use codes)			
3	Flue Gas Desulfurization Unit Actual or Projected In-Service Date of Commercial Operation (MM-YYYY)			
4	Type of Flue Gas Desulfurization Unit (use code)			
5	Type of Sorbent (use code)			
6	Salable Byproduct Recovery (enter "Y" for Yes or "N" for No)			
7	Flue Gas Desulfurization Unit Manufacturer (use code)			
8	Annual Pond and Land Fill Requirements (nearest acre foot per year)			
9	Is Sludge Pond Lined (enter "Y" for Yes, "N" for No, or "NA" for Not Applicable)			
10	10 Can Flue Gas Bypass Flue Gas Desulfurization Unit (enter "Y" for Yes or "N" for No)			
DESIGN FUEL SPECIFICATIONS FOR COAL				
11	Ash (to nearest 0.1 percent by	weight)		
12	Sulfur (to nearest 0.1 percent by weight)			
	NUMBER OF FLUE GAS DE	SULFURIZATION UNIT SCRUBBER	TRAINS (OR MODUL	ES)
13	Total			
14	Operated at 100 Percent Load			
DESI	GN SPECIFICATIONS OF FLUE	GAS DESULFURIZATION UNIT AT 1	00 PERCENT GENER	RATOR LOAD
15	Removal Efficiency for Sulfur Dioxide (to nearest 0.1 percent by weight)			
16	Sulfur Dioxide Emission Rate (pounds per hour)			
17	Flue Gas Exit Rate (actual cubic feet per minute)			
18	Flue Gas Exit Temperature (degrees Fahrenheit)			
19	Flue Gas Entering Flue Gas Desulfurization Unit (percent of total)			
INST	FALLED COST OF FLUE GAS D	ESULFURIZATION UNIT, EXCLUDING	G LAND (THOUSAND	DOLLARS)
20	Structures and Equipment			
21	Sludge Transport and Disposa	al System		

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22	Other (installed cost of flue gas desulfurization unit)			
23	Total (sum of lines 20, 21, 22)			

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Operator	Name:		Operator ID:	-
Plant Nar	me:	F	Plant Code:	-
Reporting	as of December 31 of Year:			
	(DATA NOT F	TACK AND FLUE INFORMATION - DE REQUIRED FOR PLANTS LESS THAN SEPARATE PAGE FOR EACH STACI	l 100 MW)	,
LINE				
1	Flue ID (as reported on SCHEDULE 6, PART A line 8)			
2	Stack ID (as reported on SCHEDULE 6, PART A line 7)			
3	Stack (or Flue) Actual or Projected In-Service Date of Commercial Operation (e.g., 12-2001)			
4	Status of Stack (or Flue) (use code)			
5	Flue Height at Top from Ground Level (feet)			
6 Cross-Sectional Area at Top of Flue (nearest square foot)				
DESIGN FLUE GAS EXIT (AT TOP OF STACK)				
7	Rate at 100 Percent Load (actual cubic feet per minute)			
8	Rate at 50 Percent Load (actual cubic feet per minute)			
9	Temperature at 100 Percent Load (degrees Fahrenheit)			
10	Temperature at 50 Percent Load (degrees Fahrenheit)			
11	Velocity at 100 Percent Load (feet per second)			
12	Velocity at 50 Percent Load (feet per second)			
	ACTUAL SEASONAL FL	UE GAS EXIT TEMPERATURE (DEG	REES FAHRENHEIT)	
13	Summer Season			
14	Winter Season			
15	Source (enter "M" for measured	•		
		STACK LOCATION		
16	Stack Location - Latitude (degr	ees, minutes, seconds)		
17	Stack Location - Longitude (de	grees, minutes, seconds)		
18	Enter Datum for Latitude and Longitude, if Known; Otherwise Enter "UNK"			

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Burden: 9.4 hours

Operator Name:	
Operator ID:	Reporting as of December 31 of Year:

SCHEDULE 7. COMMENTS (USE ADDITIONAL PAGES IF NECESSARY) **COMMENTS SCHEDULE** LINE **PART** (Including all identifying codes such as plant code, generator ID, **NUMBER** NUMBER or boiler ID to which the comment applies)