Name	e of Respondent	This Rep	ort Is: An Original		Date of Report (Mo, Da, Yr)	Report Year/Period of Report			
North	nern States Power Company (Minnesota)	(2)	A Resubmissio	n	04/10/2017		End of 20	16/Q4	
	STEAM-EL	ECTRIC (SENERATING P	LANT STATIS	TICS (Large Pla	nts)			
this page as a jumore thermore under the second sec	eport data for plant in Service only. 2. Large plar age gas-turbine and internal combustion plants of oint facility. 4. If net peak demand for 60 minute than one plant, report on line 11 the approximate a basis report the Btu content or the gas and the qualit of fuel burned (Line 41) must be consistent with a burned in a plant furnish only the composite heat	10,000 Kves is not average nuantity of for a charges	w or more, and r vailable, give dat umber of employ uel burned conv to expense acco	uclear plants. ta which is ava yees assignab erted to Mct.	 Indicate by illable, specifying le to each plant. Quantities of 	a footnote period. 5 6. If gas fuel burne	any plant leased 5. If any employe is used and purc ed (Line 38) and a	or operated ees attend chased on a average cost	
Line	Item		Plant			Plant			
No.			Name: Ri			Name: И			
_	(a)			(b)			(c)		
1	Kind of Plant (Internal Comb, Gas Turb, Nuclear				Combined Cycle			Steam	
	Type of Constr (Conventional, Outdoor, Boiler, etc.	2)			Conventional			Conventional	
	Year Originally Constructed	3)			1911			1948	
	Year Last Unit was Installed				2009			1951	
5	Total Installed Cap (Max Gen Name Plate Ratings	s-MW)			585.90			25.00	
6	Net Peak Demand on Plant - MW (60 minutes)				515			20	
7	Plant Hours Connected to Load				6116			7849	
_	Net Continuous Plant Capability (Megawatts)				500			18	
9	When Not Limited by Condenser Water				500			18	
10	When Limited by Condenser Water				454			18	
	Average Number of Employees Net Generation, Exclusive of Plant Use - KWh		_		25 2432580177			27 102710075	
	Cost of Plant: Land and Land Rights				450132				
14	Structures and Improvements				52226101			8063468	
15	Equipment Costs				259887622			45362147	
16	Asset Retirement Costs				864346			962921	
17	Total Cost				313428201			54888309	
_	Cost per KW of Installed Capacity (line 17/5) Inclu	uding	-		534.9517	2195.5			
	Production Expenses: Oper, Supv, & Engr				402745			192937	
20	Fuel				60967897			482954	
21	Coolants and Water (Nuclear Plants Only) Steam Expenses		_		7632			1608798	
23	Steam From Other Sources	_			0			0 000	
24	Steam Transferred (Cr)				0			0	
25	Electric Expenses				2108589			144071	
26	Misc Steam (or Nuclear) Power Expenses				801207			806181	
27	Rents				556267			199835	
28	Allowances				0			0	
29	Maintenance Supervision and Engineering				219150			59961	
30	Maintenance of Structures	_			1465180	-		135202	
31	Maintenance of Boiler (or reactor) Plant				3062			1755638	
32	Maintenance of Electric Plant Maintenance of Misc Steam (or Nuclear) Plant				2750484 325659			665988 870712	
34	Total Production Expenses				69607872			6922277	
35	Expenses per Net KWh				0.0286			0.0674	
36	Fuel: Kind (Coal, Gas, Oil, or Nuclear)			Gas	Oil	RDF	Gas	Wood	
37	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indica	ite)		MCF	Barrels	Tons	MCF	Tons	
38	Quantity (Units) of Fuel Burned		0	16490194	14	177689	30206	0	
39	Avg Heat Cont - Fuel Burned (btu/indicate if nucle		0	1055	137694	6052	1059	0	
40	Avg Cost of Fuel/unit, as Delvd f.o.b. during year		0.000	3.697	58.988	2.015	4.923	0.000	
41	Average Cost of Fuel per Unit Burned		0.000	3.697	58.988	14.036	4.923	0.000	
42	Average Cost of Fuel Burned per Million BTU		0.000	3.503	10.200	1.160	4.650	0.000	
43	Average Cost of Fuel Burned per KWh Net Gen Average BTU per KWh Net Generation		0.000	0.025 7019.670	0.000	0.000	0.030 21250.630	0.000	
77	Articlage by a politiviti Net Celleration		0.000	1,019.010	10.000	0.000	2 1200.000	0.000	

	of Respondent	(1) X An O	: riginal		(Mo, Da, Yr)	Yr)				
North	ern States Power Company (Minnesota)		submission		04/10/2017	End of 2016/Q4				
	STEAM-ELECTRIC	GENERATING	PLANT STAT	ISTICS (Larg	e Plants) (Con	tinued)				
this pa as a jo more therm per ur	port data for plant in Service only. 2. Large planage gas-turbine and internal combustion plants of bint facility. 4. If net peak demand for 60 minute than one plant, report on line 11 the approximate basis report the Btu content or the gas and the quit of fuel burned (Line 41) must be consistent with burned in a plant furnish only the composite heat	10,000 Kw or mes is not available average numbe uantity of fuel but charges to exp	nore, and nucle, give data version of employee urned converte ense account	ear plants. hich is availa s assignable ed to Mct. 7	 Indicate by a ble, specifying to each plant. Quantities of 	a footnote period. { 6. If gas fuel burne	any plant leased 5. If any employe is used and purcled (Line 38) and a	or operated es attend hased on a verage cost		
Line No.	Item		Plant Name: Sherb			Plant Name: 6	Granite City			
	(a)			(b)			(c)			
1	Kind of Plant (Internal Comb, Gas Turb, Nuclear			_	Steam			Gas Turbine		
	Type of Constr (Conventional, Outdoor, Boiler, et	c)			Conventional		Inc	d Enclosures		
_	Year Originally Constructed				1976			1969		
_	Year Last Unit was Installed				1987			1969		
	Total Installed Cap (Max Gen Name Plate Rating	s-MW)			2469.32			72.00		
6	Net Peak Demand on Plant - MW (60 minutes)				1901			30		
7	Plant Hours Connected to Load				8784			24		
8	Net Continuous Plant Capability (Megawatts)				1879			64		
9	When Not Limited by Condenser Water				1879			64		
-	When Limited by Condenser Water				1879			52		
	Average Number of Employees				253			-232680		
	Net Generation, Exclusive of Plant Use - KWh		10002378056 5951721				402			
13	Cost of Plant: Land and Land Rights Structures and Improvements				225182051			1241718		
	Equipment Costs				1197199512			7525213		
16	Asset Retirement Costs				175096			68958		
17	Total Cost				1428508380			8876129		
18	Cost per KW of Installed Capacity (line 17/5) Incli	uding			578.5027	123.2				
19	Production Expenses: Oper, Supv, & Engr				2673757					
20	Fuel				229343171	N		66943		
21	Coolants and Water (Nuclear Plants Only)				0			0		
22	Steam Expenses				7911450			0		
23	Steam From Other Sources				0			0		
24	Steam Transferred (Cr)				3227986			29056		
25 26	Electric Expenses Misc Steam (or Nuclear) Power Expenses				13041035			857542		
27	Rents				2034967			4650		
28	Allowances				0			0		
29	Maintenance Supervision and Engineering				1977489			7276		
30	Maintenance of Structures				2741879			29150		
31	Maintenance of Boiler (or reactor) Plant				19206440			0		
32	Maintenance of Electric Plant				6283369			7546		
33	Maintenance of Misc Steam (or Nuclear) Plant				9690072			0		
34	Total Production Expenses				298131615 0.0298			1002163 -4.3070		
35	Expenses per Net KWh Fuel: Kind (Coal, Gas, Oil, or Nuclear)		Coal		Oil	Gas		-4.3070		
37	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indications)	ate)	Tons		Barrels	MCF	-	Barrels		
38	Quantity (Units) of Fuel Burned	ato)	5907571	0	15053	3083	0	781		
39	Avg Heat Cont - Fuel Burned (btu/indicate if nucl	lear)	8700	0	141959	1000	0	138963		
40	Avg Cost of Fuel/unit, as Delvd f.o.b. during year		36.198	0.000	63.913	4.890	0.000	66.374		
41	Average Cost of Fuel per Unit Burned		37.346	0.000	63.913	4.890	0.000	66.374		
42	Average Cost of Fuel Burned per Million BTU		2.146	0.000	10.720	4.890	0.000	11.372		
43			0.000	0.020	0.000	0.000	-0.290	0.000		
44	Average BTU per KWh Net Generation		0.000	10285.180	0.000	0.000	-32805.840	0.000		
		ĕ								

Name of Respondent This Report Is: Date of Report (1) X An Original (Mo, Da, Yr)					Year/Period of Report					
North	nern States Power Company (Minnesota)		Resubmission		(Mo, Da, Yr) 04/10/2017		End of2016/Q4			
	STEAM-ELECTRIC			TISTICS (La		atinued)				
this pages a jument of the contract of the con	eport data for plant in Service only. 2. Large pla age gas-turbine and internal combustion plants of bint facility. 4. If net peak demand for 60 minute than one plant, report on line 11 the approximate basis report the Btu content or the gas and the q nit of fuel burned (Line 41) must be consistent with burned in a plant furnish only the composite hear	nts are stear 10,000 Kw es is not ava average nur uantity of fue n charges to	m plants with ins or more, and nu ilable, give data nber of employe el burned convel expense accoul	talled capac clear plants. which is ava es assignabl ted to Mct.	ity (name plate ra 3. Indicate by a illable, specifying le to each plant. 7. Quantitles of	ating) of 25 a footnote period. 6. If gas fuel burne	e any plant leased 5. If any employe s is used and purc ed (Line 38) and a	or operated ees attend chased on a average cost		
						·				
₋ine	Item		Plant	_		Plant				
No.	(a)		Name: Ang	us Anson (b)		Name: <i>I</i>	Black Dog Unit 5 (c)			
				(~)			(0)			
1	Kind of Plant (Internal Comb, Gas Turb, Nuclear				Gas Turbines		Co	mbined Cycle		
_	Type of Constr (Conventional, Outdoor, Boiler, et	c)						Conventional		
	Year Originally Constructed				1994		-	1987		
	Year Last Unit was Installed				2005			2002		
	Total Installed Cap (Max Gen Name Plate Rating	S-IVIVV)			405.66			324.79		
	Net Peak Demand on Plant - MW (60 minutes) Plant Hours Connected to Load				363 635			322 5021		
	Net Continuous Plant Capability (Megawatts)				386			298		
9	When Not Limited by Condenser Water				386			298		
10	When Limited by Condenser Water				327			282		
11	Average Number of Employees			8			30			
	Net Generation, Exclusive of Plant Use - KWh			65635496		•	1144542997			
	· · · · · · · · · · · · · · · · · · ·							952692		
14	Structures and Improvements				7674466	· .		48545696		
15 16	Equipment Costs Asset Retirement Costs				114385823 658999			185670419		
17	Total Cost				123891904	<u> </u>		-10644999 224523808		
	Cost per KW of Installed Capacity (line 17/5) Incli	udina			305,4082		691.2892			
	Production Expenses: Oper, Supv, & Engr				12228			34072		
20	Fuel				2701019			25707170		
21	Coolants and Water (Nuclear Plants Only)				0			0		
22	Steam Expenses				0	ļ		0		
23	Steam From Other Sources				0			0		
24 25	Steam Transferred (Cr) Electric Expenses				0 32931			55128		
26	Misc Steam (or Nuclear) Power Expenses				686719			110147		
27	Rents			•	77302			177604		
28	Allowances				0			0		
29	Maintenance Supervision and Engineering				2105			54697		
30	Maintenance of Structures				725064			628141		
31	Maintenance of Boiler (or reactor) Plant				0		·····	1403		
32	Maintenance of Electric Plant				949249			1874218		
33	Maintenance of Misc Steam (or Nuclear) Plant Total Production Expenses				186800 5373417	!		141089 28783669		
35	Expenses per Net KWh				0.0819			0.0251		
	Fuel: Kind (Coal, Gas, Oil, or Nuclear)		Gas		Oil		Gas	0.0201		
37	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indica	ate)	MCF		Barrels		MCF			
38	Quantity (Units) of Fuel Burned		752884	0	2461	0	7899394	0		
39	Avg Heat Cont - Fuel Burned (btu/indicate if nucl	ear)	1070	0	137646	0	1060	0		
40	Avg Cost of Fuel/unit, as Delvd f.o.b. during year		3.361	0.000	69.321	0.000	3.254	0.000		
41	Average Cost of Fuel per Unit Burned		3.361	0.000	69.321	0.000	3.255	0.000		
42	Average Cost of Fuel Burned per Million BTU		3.141	0.000	11.991	0.000	3.071	0.000		
43	Average Cost of Fuel Burned per KWh Net Gen Average BTU per KWh Net Generation		0.000	0.040 12489.600	0.000	0.000	0.020 7315.850	0.000		
44	Avoiage DTO per Kyvit Net Generation		0.000	12409.000	7 10.000	0.000	73 10.850	10.000		
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Name	of Respondent	This Report Is	;		Date of Report	ľ	Year/Period	d of Report 🗼	
North	nern States Power Company (Minnesota)	(1) X An O (2) A Re	nginai submission		(Mo, Da, Yr) 04/10/2017		End of _	2016/Q4	
	STEAM-ELECTRIC	GENERATING	PLANT STA	ΓISTICS (Ι	_arge Plants) <i>(Con</i>	tinued)			
this p as a j more therm per u	eport data for plant in Service only. 2. Large pla age gas-turbine and internal combustion plants of oint facility. 4. If net peak demand for 60 minute than one plant, report on line 11 the approximate basis report the Btu content or the gas and the quality of fuel burned (Line 41) must be consistent with burned in a plant furnish only the composite hea	10,000 Kw or mes is not available average numbe uantity of fuel but charges to exp	nore, and nuc le, give data r of employed urned conver vense accour	clear plants which is a es assigna ted to Mct.	s. 3. Indicate by a vailable, specifying able to each plant.7. Quantities of	a footnote period. 6. If ga fuel burn	e any plant leas 5. If any emp s is used and p ned (Line 38) ar	sed or operated loyees attend ourchased on a nd average cost	
Line	ltem		Plant Name:			Plant Name:			
No.	(a)		ivaille.	(b)	1	ivallie.	(c)		
1	Kind of Plant (Internal Comb, Gas Turb, Nuclear								
2	Type of Constr (Conventional, Outdoor, Boiler, et	c)							
3	Year Originally Constructed		-						
4	Year Last Unit was Installed								
5	Total Installed Cap (Max Gen Name Plate Rating	ıs-MW)			0.00			0.00	
6	Net Peak Demand on Plant - MW (60 minutes)				0			0	
	Plant Hours Connected to Load				0			0	
	Net Continuous Plant Capability (Megawatts)				0			0	
9	When Not Limited by Condenser Water			,	0			0	
10	When Limited by Condenser Water				0			. 0	
	Average Number of Employees				0			0	
12	Net Generation, Exclusive of Plant Use - KWh				0		(
	Cost of Plant: Land and Land Rights				0			0	
14	Structures and Improvements				0			0	
15	Equipment Costs				0			0	
16	Asset Retirement Costs				0			0	
17	Total Cost			•	0			0	
	Cost per KW of Installed Capacity (line 17/5) Inc.	uding			0		~	0	
	Production Expenses: Oper, Supv, & Engr				0			0	
20	Fuel				0			0	
21	Coolants and Water (Nuclear Plants Only)				0			0	
22					0			0	
	Steam From Other Sources				0			0	
24	Steam Transferred (Cr)				0			0	
	Electric Expenses				. 0			0	
	Misc Steam (or Nuclear) Power Expenses				0			0	
27	Rents				. 0			0	
28	Allowances	-			0			0	
29	Maintenance Supervision and Engineering				0			0	
30	Maintenance of Structures				0			0	
31	Maintenance of Boiler (or reactor) Plant				0			0	
32	Maintenance of Electric Plant				0			0	
33	Maintenance of Misc Steam (or Nuclear) Plant				0			0	
34	Total Production Expenses				0			0	
35	Expenses per Net KWh				0.0000			0.0000	
36	Fuel: Kind (Coal, Gas, Oil, or Nuclear)								
	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indic	ate)							
	Quantity (Units) of Fuel Burned		0	0	0	0	0	0	
	Avg Heat Cont - Fuel Burned (btu/indicate if nuc	lear)	0	0	0	0	0	0	
	Avg Cost of Fuel/unit, as Delvd f.o.b. during yea		0.000	0.000	0.000	0.000	0.000	0.000	
	Average Cost of Fuel per Unit Burned		0.000	0.000	0.000	0.000	0.000	0.000	
	Average Cost of Fuel Burned per Million BTU		0.000	0.000	0.000	0.000	0.000	0.000	
	Average Cost of Fuel Burned per KWh Net Gen		0.000	0.000	0.000	0.000	0.000	0.000	
	Average BTU per KWh Net Generation		0.000	0.000	0.000	0.000	0.000	0.000	
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Name of Respondent				Report Is:		Date of Report Year/Period of Report					
Northern State	es Power Comp	any (Minnesota)	(1)	X An Original A Resubmissior		(Mo, Da, Yr)	04/10/2017 End of2016/Q4				
				RATING PLANT ST							
Dispatching, are 547 and 549 or designed for pesteam, hydro, i cycle operation footnote (a) accused for the va	nd Other Expen n Line 25 "Elect eak load service internal combus n with a convent counting metho irious componel	ses Classified as C ric Expenses," and e. Designate autom tion or gas-turbine ional steam unit, in d for cost of power	Other Power Si Maintenance natically opera equipment, re- iclude the gas generated incidic) any other	s. Production experiments. Account Nos. 553 and plants. 11. For export each as a separaturbine with the step informative data confining any excess of plant.	10. For IC and 0 and 554 on Line or a plant equipparate plant. Howam plant. 12. costs attributed t	GT plants, repo 32, "Maintenan bed with combin vever, if a gas- If a nuclear po o research and	ort Operating Exp nce of Electric P nations of fossil turbine unit func- twer generating of d development; (penses, Account N lant." Indicate plan fuel steam, nuclea tions in a combine plant, briefly explai b) types of cost ur	nts or d in by nits		
Plant	na other physic	ar and operating on	Plant	or plant.		Plant			Line		
Name: ASKi	na		Name: Prai	irie Island		Name: Blue	e I ake		Line No.		
ramo,	(d)			(e)		Traine: Elsi	(f)				
				` `			,,				
		Steam			Nuclear			Gas Turbine	1		
		Conventional			Conventional			Ind Enclosures	2		
		1968			1973			1974	3		
		1968			1974			2005	4		
		598.40			1186.20			559.32	5		
		541			1114			454	6		
		6290			8784			883	7		
		511			1092			545	8		
		511			1092			545	9		
		511			1040			0	10		
86 673						5	11				
2715572900 82					8263058000			197208000	12		
	1335100 969229 141878						13				
		38620988			313268814			1623647	14		
		661536103			1660717974	74 94471040					
		3833412		174529690 94				94817	16		
		705325603		2149485707 96331382				17			
		1178.6858			1812.0770	2		172.2295	18		
		690548			44643743			120484	19		
		62484824	14.		72011347			8114997	20		
		0			4758389			0	21		
		6176628			27159670			0	22		
		0			0			0	23		
		0			0			0	24		
		804896			4147206			265490	25		
		3245828			79621338			45136	26		
		970170			6261808			55992	27		
		0			0	-		0	28		
		410950			4109342	4		37342	29		
		2499401			845272			187072	30		
		8981609			29158695	<u> </u>		0	31		
		2944859			11683767			554663	32		
		3259211 92468924			23142866	-		4403	33		
		0.0341			307543443	100		9385579	34		
Coal	TGas	Oil		Nuclear	0.0372	Coo	1	0.0476	35		
Tons	MCF	Barrels		Nuclear Grams: U235		Gas	+	Oil	36		
1 0110	66138	114	0	802864	0	1996559	0	Barrels 3117	37		
1522701		117	0	108747	0	1062	0		38		
		138333		100171		-		1,944.11			
8874	1056	138333 81.999	0.000	0.000	L 0.000	13.909	1 ().()()()				
8874 38.286	1056 3.923	81.999	0.000	0.000	0.000	3.909		99.782	40		
8874 38.286 41.700	1056 3.923 3.923	81.999 81.999	0.000	0.000	0.000	3.909	0.000	99.782	41		
8874 38.286 41.700 2.349	1056 3.923 3.923 3.715	81.999 81.999 14.113	0.000 0.000	0.000 0.829	0.000 0.000	3.909 3.680	0.000	99.782 17.214	41 42		
1522701 8874 38.286 41.700 2.349 0.000 0.000	1056 3.923 3.923	81.999 81.999	0.000	0.000	0.000	3.909	0.000	99.782	41		

Name of Respondent	This Report Is:	[X] An Original (Mo, Da, Yr)						
Northern States Power Company (Minnesota)		(1) X An Original (2) A Resubmission	n	04/10/2017	End	of 2016/Q4		
STEAM-ELE	CTRIC (SENERATING PLANT ST		rge Plants)(Co.	ntinued)			
D. Items under Cost of Plant are based on U. S. Dispatching, and Other Expenses Classified as 147 and 549 on Line 25 "Electric Expenses," an lesigned for peak load service. Designate autosteam, hydro, internal combustion or gas-turbing cycle operation with a conventional steam unit, botnote (a) accounting method for cost of powersed for the various components of fuel cost; are port period and other physical and operating of	Other Pod Mainter Matically equipm nclude the general and (c) any	wer Supply Expenses. nance Account Nos. 553 a operated plants. 11. Fo ent, report each as a sepa e gas-turbine with the ste ed including any excess of other informative data co	10. For IC and and 554 on Lin or a plant equiparate plant. Hower plant. 12 costs attributed	I GT plants, repose 32, "Maintena pped with comb pwever, if a gas I If a nuclear p I to research ar	ort Operating Expenses of Electric Place of Electric Place of fossil functions of fossil function ower generating place development; (b	enses, Account N ant." Indicate plan uel steam, nuclea ons in a combined lant, briefly explai) types of cost un	ts r d n by its	
Plant	Plant			Plant			Line	
Name: Inver Hills	Name	High Bridge 7, 8, 9		Name: Mo			No.	
(d)		(e)			(f)			
Gas Turbine	1	C	Combined Cycle	e		Nuclear	1	
Ind Enclosures			Conventiona			Conventional	2	
1972			192	4		1971	3	
1972			200			1971	4	
280.50			644.0			684.97	5	
269 265			62 ⁻ 535			670 8784	6 7	
371			60			646	8	
371	+	-	60			646	9	
282			53	0		617	10	
7			2	3		525	11	
17435963			212552700			5597758000	12	
432561	-		52815			783302	13	
1417386 57422832	-		7089713 31668747			218109485 1168306394	14 15	
114211	+			19394 3081411				
59386990	1		38813215			1695340293	16 17	
211.7183			602.633	5		2475.0577	18	
7711			36718	9		27071298	19	
1068557			4688942	_		44970200	20	
0				0		3915850 20643952	21	
0	-			0		20643952	23	
0	+			0		0	24	
243094			255918	6		0	25	
89427			126066	3		58437989	26	
47365			49212	8		4501658	27	
0	-			0		0	28	
557 365521			15554 77514			2537807 0	29 30	
360021			217			13414210	31	
446669			119070			5807646	32	
13863			20202	5		7757243	33	
2282764			5389418	3		189057853	34	
0.1309	-	T-	0.025	4		0.0338	35	
Gas Oil	-	Gas			Nuclear Grams: U235		36 37	
MCF Barrels 0 287376 587	0	MCF 14075416	0	0	494195	0	38	
0 1058 139856	0	1060	0	0	118507	0	39	
0.000 3.560 77.844	0.000	3.331	0.000	0.000	0.000	0.000	40	
0.000 3.560 85.399	0.000	3.331	0.000	0.000	0.000	0.000	41	
0.000 3.364 14.539	0.000	3.143	0.000	0.000	0.772	0.000	42	
0.000 0.060 0.000	0.000	0.020	0.000	0.000	0.010	0.000	43	
0.000 17639.110 0.000	0.000	7019.670	0.000	0.000	10462.450	0.000	44	

Name of Resp	me of Respondent This Report Is: Date of Report Year/Period of Report									
Northern State	es Power Compa	any (Minnesota)	(1)	An Original A Resubmis	sion	•	Mo, Da, Yr) 04/10/2017	E	End of2016/Q4	.
		STEAM-ELEC	CTRIC GENE	RATING PLAN	T STATISTICS (Large	Plants) <i>(Continu</i>	ıed)		
Dispatching, ar 547 and 549 or designed for posteam, hydro, i cycle operation footnote (a) accused for the va	nd Other Expens In Line 25 "Electr Eak load service. Internal combust In with a conventicounting methoc Irious componen	ses Classified as C ric Expenses," and . Designate autom tion or gas-turbine onal steam unit, in t for cost of power	ther Power S Maintenance latically opera equipment, re clude the gas generated inc (c) any other	upply Expenses Account Nos. 5 ated plants. 11 eport each as a -turbine with the cluding any exce	s. 10. For IC a 553 and 554 on I. For a plant ec separate plant. e steam plant. ess costs attribu	and G Line 3 Juippe Howe 12. I ted to	T plants, report of the plants, "Maintenance of with combinate over, if a gas-ture of a nuclear power research and d	Operating E e of Electric tions of fossibine unit ful er generatin evelopmen	em Control and Load Expenses, Account I Plant." Indicate pla sil fuel steam, nucle nctions in a combin- ing plant, briefly expla t; (b) types of cost u ant type and quantity	Nos. nts ar ed ain by nits
Plant Name: <i>Black</i> i	Dog 3 & 4 (d)		Plant Name: <i>Key</i>				Plant Name:	(f)		Line No.
	(u)			(e)				<u>(f)</u>		
		Steam			Gas Turk	ine				1
		Conventional			Ind Enclosu	res				2
		1952				970				3
		1960			*	970				4
		0.00				00.0			0.00	
		0				0			0	-
		0				0				
		0				0			0	
		0				0			(10
		0				0			(
		0	-32640 67495							
		0								
		0			1002 7597					
		0			1007	0				
		0			8667			1 4,1 84,	(
		0				0				
		360962				0			(19
		4107	0							
		0	0				•		(
		2807502	0					(
		0	0 0					(
		563819				6				
		618949				0			(
		245052				442			(27
		0				0			(
		19120				0			(
		1241765 341685			1	039			(
<u>, </u>		131838			3	199				
		995629				0			(
		7330428			4	686			(+
		0.0000			-0.1	436			0.0000	35
	Oil									36
	Barrels	<u> </u>								37
0	47 139898	0	0	0	0		0	0	0	38
0.000	88.013	0.000	0.000	0.000	0.000		0.000	0.000	0.000	40
0.000	88.013	0.000	0.000	0.000	0.000		0.000	0.000	0.000	41
0.000	14.979	0.000	0.000	0.000	0.000		0.000	0.000	0.000	42
0.000	0.310	0.000	0.000	0.000	0.000		0.000	0.000	0.000	43
0.000	7410.810	0.000	0.000	0.000	0.000		0.000	0.000	0.000	44
7410.010 0.000										

Name of Resp	ondent		This F	Report Is:			ate of Report	Year/	Period of Report	i ".
Northern State	es Power Comp	oany (Minnesota)	(1)	An Original A Resubmiss	sion		ло, Da, Yr) 4/10/2017	End o	of 2016/Q4	
		STEAM-ELEC	TRIC GENE	RATING PLANT	STATISTICS (L	.arge	Plants)(Continued)	.		
Dispatching, and 549 or designed for posteam, hydro, cycle operation footnote (a) ac used for the value for the va	nd Other Expern Line 25 "Elecent leak load service internal combust with a convent counting methologies.	are based on U. S. onses Classified as Oftric Expenses," and e. Designate automestion or gas-turbine of tional steam unit, incord for cost of power ents of fuel cost; and cal and operating chases.	ther Power S Maintenance atically opera equipment, re clude the gas generated inc (c) any other	upply Expenses. Account Nos. 5: Ited plants. 11. Ited port each as a seturbine with the Cluding any excess informative data	. 10. For IC an 53 and 554 on Li . For a plant equ separate plant. F e steam plant. 1 less costs attribute	nd GT ine 32 uipped lower 12. If ed to	Figlants, report Ope 2, "Maintenance of d with combinations ver, if a gas-turbine a nuclear power gover research and devel	rating Expe Electric Pla s of fossil fu unit function enerating pla opment; (b)	nses, Account N nt." Indicate plan el steam, nuclea ns in a combine ant, briefly explai types of cost un	its r d in by iits
Plant		1	Plant	· · · · · · · · · · · · · · · · · · ·			Plant			Line
Name:			Name:				Name:			No.
	(d)			(e)				(f)		
							-			1
						-				2
										3
										-4
		0.00			0.0	00			0.00	5
		0				0			0	6
		0				0			0	7 8
		0				0			0	9
		0				0			0	10
		0				0			0	11
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		0				0			0	13
		0				0			0	14 15
		0				0			0	16
	··· · · · · · · · · · · · · · · · · ·	0				0			0	17
		0				0			0	18
		0				0			0	19
		0				0			0	20 21
		0				0			0	22
		0		-		0			0	23
	•	0				0			0	24
		0				0			0	25
		0				0			0	26 27
		0				0			0	28
		0				0			. 0	29
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		0				0			0	31
		0				0			0	32
		0				0			0	34
		0.0000			0.00	00			0.0000	35
										36
^	<u> </u>					-	0	· · · ·	0	37 38
0	0	0	0	0	0	-	0 0		0	39
0.000	0.000	0.000	0.000	0.000	0.000		0.000 0.0	000	0.000	40
0.000	0.000	0.000	0.000	0.000	0.000		0.000 0.0		0.000	41
0.000	0.000	0.000	0.000	0.000	0.000	_	0.000 0.00		0.000	42
0.000	0.000	0.000	0.000	0.000	0.000	_	0.000 0.00		0.000	43
0.000	0.000	0.000	0.000	0.000	0.000		0.000 0.0	000	0.000	44

Name of Respondent	This Report is:	Date of Report	Year/Period of Report
	(1) <u>X</u> An Original	(Mo, Da, Yr)	
Northern States Power Company (Minnesota)	(2) _ A Resubmission	04/10/2017	2016/Q4
	FOOTNOTE DATA		

Schedule Page: 403 Line No.: -1 Column: e

Instruction 12 - Prairie Island Nuclear Generating Plant (p. 403)

- (a) Operating and maintenance costs of the Prairie Island Plant are expensed as incurred. NSP-Minnesota uses a deferral and amortization method for nuclear refueling operation and maintenance costs. This method amortizes refueling outage costs over the period between refueling outages consistent with how the costs are recovered ratably in electric cases.
- (b) NSP-Minnesota buys and owns the fuel for this plant. The standard FERC accounting system is used to make a breakdown of the various components of fuel costs.
- (c) The Prairie Island Plant has two identical Westinghouse 2 loop PWR Nuclear Power Fuel material is U02 contained in zirconium alloy based cladding. equilibrium cycle has approximately 47 metric tons of uranium metal with a nominal U-235 enrichment of 4.95 weight percent in the fresh fuel. The reactor is licensed to operate at 1677 MWt.

Schedule Page: 402.1 Line No.: -1 Column: b

Sherburne County Generating Plant Unit 3 is jointly owned by NSP-Minnesota (59 percent) and Southern Minnesota Municipal Power Agency (41 percent). See Note 4 of the Financial Statements on Page 123 for disclosures regarding Sherco Unit 3.

Schedule Page: 403.1 Line No.: -1 Column: f

Instruction 12 - Monticello Nuclear Generating Plant (p. 403.1)

- Operating and maintenance costs of the Monticello Plant are expensed as incurred. NSP-Minnesota uses a deferral and amortization method for nuclear refueling operation and maintenance costs. This method amortizes refueling outage costs over the period between refueling outages consistent with how the costs are recovered ratably in electric cases.
- (b) NSP-Minnesota buys and owns the fuel for this plant. The standard FERC accounting system is used to make a breakdown of the various components of fuel costs.
- (c) The Monticello Plant is a General Electric BWR-3 Nuclear Power Plant. Fuel material is UO2 contained in zirconium alloy based cladding. The equilibrium cycle has approximately 84 metric tons of uranium metal with a nominal U-235 enrichment of 3.8 weight percent in the fresh fuel. The reactor is licensed to operate at 2,004 MWt.

Schedule Page: 402 Line No.: 39 Column: b1

The "Average Heat Content of Fuel Burned" is calculated as:

Coal: Btu/pound Oil: Btu/gallon Gas: Btu/cubic ft

Schedule Page: 402 Line No.: 39 Column: e2

Average heat content of fuel burned is MBTU/kg U235.

Schedule Page: 402.1 Line No.: 39 Column: f2

Average heat content of fuel burned is in KBTU/gm U235.

Nam a	e of Respondent	This Report	ls:		Date of Report				
North	nern States Power Company (Minnesota)		Original Resubmission		(Mo, Da, Yr) 04/06/2018	End of 2017/Q4			
					TICS (Large Plan				
1. R∈	eport data for plant in Service only. 2. Large pla	nts are steam	plants with in	stalled capacit	y (name plate ra	ting) of 25,0	000 Kw or more.	Report in	
	age gas-turbine and internal combustion plants of								
	oint facility. 4. If net peak demand for 60 minute than one plant, report on line 11 the approximate								
herm	basis report the Btu content or the gas and the q	uantity of fuel	burned conve	erted to Mct	7 Quantities of	fuel hurned	l ine 38) and a	verage cost	
oer ur	nit of fuel burned (Line 41) must be consistent with	charges to e	xpense accou	ints 501 and 5	47 (Line 42) as s	how on Line	e 20. 8. If mo	re than one	
	burned in a plant furnish only the composite hea								
								- 1	
_ine	Item		Plant			Plant	· · · · · · · · · · · · · · · · · · ·		
No.	(a)		Name: Rive	erside (b)		Name: Wi	irnarτη (c)	1	
_	(α)			(b)			(0)		
1	Kind of Plant (Internal Comb, Gas Turb, Nuclear				Combined Cycle			Steam	
_	Type of Constr (Conventional, Outdoor, Boiler, et	c)			Conventional	-		Conventional	
_	Year Originally Constructed	0)			1911			1948	
_	Year Last Unit was Installed				2009	-		1951	
_	Total Installed Cap (Max Gen Name Plate Rating	s-MW)			585.90			25.00	
_	Net Peak Demand on Plant - MW (60 minutes)				512			20	
_	Plant Hours Connected to Load				4117			7360	
8	Net Continuous Plant Capability (Megawatts)				500			18	
9	When Not Limited by Condenser Water				500			18	
10	When Limited by Condenser Water				454			18	
11	Average Number of Employees				23			27	
12	Net Generation, Exclusive of Plant Use - KWh				1597803172			88062421	
13	Cost of Plant: Land and Land Rights				450133			499773	
14	Structures and Improvements				52352107			8200994	
15	Equipment Costs				256484156			47086952	
16	Asset Retirement Costs				864346			962921	
17	Total Cost				310150742			56750640	
18	Cost per KW of Installed Capacity (line 17/5) Incl	uding			529.3578		2270.0256		
19	Production Expenses: Oper, Supv, & Engr				537134			360106	
20	Fuel				51327469	a e e e e e e e e e e e e e e e e e e e		524942	
21	Coolants and Water (Nuclear Plants Only)				0			0	
_	Steam Expenses				97865			2186499	
23	Steam From Other Sources				0			0	
24	Steam Transferred (Cr)				0			0	
25	Electric Expenses				2043497			84826	
26 27	Misc Steam (or Nuclear) Power Expenses		-		853105			568096	
28	Rents Allowances		+		521592			285138	
29	Maintenance Supervision and Engineering				311527			39320	
30	Maintenance of Structures				782517			221734	
31	Maintenance of Boiler (or reactor) Plant		†		22380			1645976	
32	Maintenance of Electric Plant				6165201			1232260	
33	Maintenance of Misc Steam (or Nuclear) Plant		<u> </u>		286668			879551	
34	Total Production Expenses		T		62948955			8028448	
35	Expenses per Net KWh				0.0394			0.0912	
36	Fuel: Kind (Coal, Gas, Oil, or Nuclear)			Gas	Oil	RDF	Gas	Wood	
37	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indication)	ate)		MCF	Barrels	Tons	MCF	Tons	
38	Quantity (Units) of Fuel Burned		0	11078777	0	149961	28549	0	
39	Avg Heat Cont - Fuel Burned (btu/indicate if nucl	ear)	0	1050	0	6051	1062	0	
40	Avg Cost of Fuel/unit, as Delvd f.o.b. during year		0.000	4.633	0.000	2.014	5.021	0.000	
41	Average Cost of Fuel per Unit Burned		0.000	4.633	0.000	11.725	5.021	0.000	
42	Average Cost of Fuel Burned per Million BTU		0.000	4.410	0.000	0.969	4.728	0.000	
43	Average Cost of Fuel Burned per KWh Net Gen		0.000	0.032	0.000	0.000	0.020	0.000	
44	Average BTU per KWh Net Generation		0.000	7283.840	0.000	0.000	20952.130	0.000	
					11				

Name	e of Respondent	This Report I	S: Original		(Mo, Da, Yr)		Year/Period of Report			
North	ern States Power Company (Minnesota)		esubmission 04/06/2018 End of							
	STEAM-ELECTRIC	GENERATING	PLANT STAT	TISTICS (Lar	ge Plants) (Con	tinued)				
his pa as a jo nore herm ber ur	sport data for plant in Service only. 2. Large planding gas-turbine and internal combustion plants of spint facility. 4. If net peak demand for 60 minutes than one plant, report on line 11 the approximate abasis report the Btu content or the gas and the qualit of fuel burned (Line 41) must be consistent with burned in a plant furnish only the composite heat	10,000 Kw or a s is not availal average numb uantity of fuel b charges to ex	more, and nuc ole, give data er of employee ourned convert pense accoun	elear plants. which is avail es assignable ted to Mct.	3. Indicate by a able, specifying to each plant. 7. Quantities of	a footnote a period. 5 6. If gas fuel burne	any plant leased i. If any employe is used and purc d (Line 38) and a	or operated ees attend chased on a average cost		
ine	Item		Plant			Plant				
No.	(a)		Name: Sheri	burne County (b)	1	Name: G	ranite City (c)			
	(4)			(=)			(-)			
1	Kind of Plant (Internal Comb, Gas Turb, Nuclear				Steam			Gas Turbine		
2	Type of Constr (Conventional, Outdoor, Boiler, etc.	c)			Conventional		lr	nd Enclosures		
	Year Originally Constructed				1976			1969		
_	Year Last Unit was Installed				1987			1969		
_	Total Installed Cap (Max Gen Name Plate Ratings	s-MW)			2469.32			72.00		
_	Net Peak Demand on Plant - MW (60 minutes) Plant Hours Connected to Load				1906 8760			55 28		
$\overline{}$	Net Continuous Plant Capability (Megawatts)				1879			64		
	When Not Limited by Condenser Water				1879			64		
	When Limited by Condenser Water				1879			52		
11	Average Number of Employees				215			0		
12	Net Generation, Exclusive of Plant Use - KWh				10457101435		-204760			
To book of Frank. Earlie and Land Highto							40240			
					225433132			1241718		
	Equipment Costs				1220886318			7531945 68958		
16	Asset Retirement Costs				-1132408 1451138763			8882861		
17	Total Cost Cost per KW of Installed Capacity (line 17/5) Included	ıdina			587.6674					
-	Production Expenses: Oper, Supv. & Engr	ading			2262200			0		
20	Fuel				251379845	7		30111		
21	Coolants and Water (Nuclear Plants Only)				0			0		
22	Steam Expenses				10191212			0		
23	Steam From Other Sources				0			0		
24					0			0		
_	Electric Expenses				3551831 9820159			25 41142		
26	Misc Steam (or Nuclear) Power Expenses Rents				1356371			2516		
28	Allowances				0			0		
29	Maintenance Supervision and Engineering				1285206		0	0		
30	Maintenance of Structures				2104163			53828		
31	Maintenance of Boiler (or reactor) Plant				13105448			0		
32	Maintenance of Electric Plant				3040738			16203		
33	Maintenance of Misc Steam (or Nuclear) Plant				7313022			0		
34	Total Production Expenses				305410195			143825		
35	Expenses per Net KWh		Coal	1	0.0292 Oil	Gas		-0.7024 Oil		
37	Fuel: Kind (Coal, Gas, Oil, or Nuclear) Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indica	ato)	Tons		Barrels	MCF		Barrels		
38	Quantity (Units) of Fuel Burned	116)	6352148	0	21258	5702	0	113		
	Avg Heat Cont - Fuel Burned (btu/indicate if nucl	ear)	8644	0	138195	1000	0	138942		
40	Avg Cost of Fuel/unit, as Delvd f.o.b. during year		37.032	0.000	71.201	3.963	0.000	66.555		
41	Average Cost of Fuel per Unit Burned		39.298	0.000	71.201	3.963	0.000	66.555		
42	Average Cost of Fuel Burned per Million BTU		2.273	0.000	12.267	3.963	0.000	11.405		
43	Average Cost of Fuel Burned per KWh Net Gen		0.000	0.020	0.000	0.000	-0.150	0.000		
44	Average BTU per KWh Net Generation		0.000	10513.200	0.000	0.000	-31181.370	0.000		

Name of Respondent This Report Is: Date of Report Year/Period of Report				Report					
North	ern States Power Company (Minnesota)	(1) X An C			(Mo, Da, Yr)		End of 2017/Q4		
			submission		04/06/2018				
	STEAM-ELECTRIC	GENERATING	PLANT STAT	ISTICS (Larg	e Plants) <i>(Con</i>	tinued)			
this pa as a ja more therm per ur	port data for plant in Service only. 2. Large planage gas-turbine and internal combustion plants of pint facility. 4. If net peak demand for 60 minutes than one plant, report on line 11 the approximate basis report the Btu content or the gas and the quit of fuel burned (Line 41) must be consistent with burned in a plant furnish only the composite heat	10,000 Kw or nes is not availab average numbe uantity of fuel bu charges to exp	nore, and nucl le, give data w r of employee urned converte pense account	ear plants. hich is avalla s assignable ed to Mct. 7	 Indicate by a able, specifying to each plant. Quantities of 	a footnote an period. 5. 6. If gas is fuel burned (y plant leased If any employe used and purc (Line 38) and a	or operated ees attend hased on a verage cost	
Line	Item		Plant			Plant			
No.	(a)		Name: Angus			Name: Blac	ck Dog Unit 5		
	(a)			(b)			(c)		
1	Kind of Plant (Internal Comb, Gas Turb, Nuclear				Gas Turbines		Cor	nbined Cycle	
	Type of Constr (Conventional, Outdoor, Boiler, etc.	3)			Gas Turbines				
	Year Originally Constructed			•	1994		·	Conventional	
4	Year Last Unit was Installed			<u> </u>	2005			1987	
	Total Installed Cap (Max Gen Name Plate Ratings	- NA(A/)			405.66			2002	
	Net Peak Demand on Plant - MW (60 minutes)	5-10100)			330			324.79	
	Plant Hours Connected to Load				2056	· · · · · · · · · · · · · · · · · · ·		328	
	Net Continuous Plant Capability (Megawatts)				386			3310	
9	When Not Limited by Condenser Water				386			298	
10	When Limited by Condenser Water				327			298 282	
	Average Number of Employees				8			262	
	Net Generation, Exclusive of Plant Use - KWh				70126467			689798372	
	Cost of Plant: Land and Land Rights				1156667			952692	
14	Structures and Improvements				7719722				
15	Equipment Costs				114588068			49991612 187049580	
16	Asset Retirement Costs				658999	-		48341	
17	Total Cost				124123456			238042225	
	Cost per KW of Installed Capacity (line 17/5) Inclu	ıdina			305.9790		732.9112		
	Production Expenses: Oper, Supv, & Engr				89744			115642	
20-	-Fuel				3039318			20051517	
21	Coolants and Water (Nuclear Plants Only)	<u> </u>			0			0	
22	Steam Expenses				0			0	
23	Steam From Other Sources		, , ,		0			0	
24	Steam Transferred (Cr)				0			0	
25	Electric Expenses		:		40898			26756	
26	Misc Steam (or Nuclear) Power Expenses				452603			98320	
27	Rents				82588			149942	
28	Allowances				0			0	
29	Maintenance Supervision and Engineering				3706			331670	
30	Maintenance of Structures				744790			694377	
31	Maintenance of Boiler (or reactor) Plant				0			0	
32	Maintenance of Electric Plant				746580			849696	
33	Maintenance of Misc Steam (or Nuclear) Plant				24315			386029	
34	Total Production Expenses				5224542			22703949	
35	Expenses per Net KWh				0.0745			0.0329	
36	Fuel: Kind (Coal, Gas, Oil, or Nuclear)		Gas		Oil		Gas		
37	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indica	ite)	MCF		Barrels		MCF		
38	Quantity (Units) of Fuel Burned		794569	0	513	0	4718370	0	
	Avg Heat Cont - Fuel Burned (btu/indicate if nucl		1065	0	138009	0 .	1058	0	
	Avg Cost of Fuel/unit, as Delvd f.o.b. during year		3.780	0.000	70.358	0.000	4.250	0.000	
41	Average Cost of Fuel per Unit Burned		3.780	0.000	70.358	0.000	4.250	0.000	
	Average Cost of Fuel Burned per Million BTU	· · · · · · · · · · · · · · · · · · ·	3.550	0.000	12.138	0.000	4.016	0.000	
	Average Cost of Fuel Burned per KWh Net Gen		0.000	0.040	0.000	0.000	0.030	0.000	
44	Average BTU per KWh Net Generation		0.000	12105.270	0.000	0.000	7237.560	0.000	

	e of Respondent hern States Power Company (Minnesota)	This Report is: (1) X An Original (2) A Resubmission	(Mo, Da, Yr) 04/06/2018		End of	2017/Q4
	STEAM-ELECTRIC	GENERATING PLANT STATISTICS	(Large Plants) <i>(Cor</i>	ntinued)	·	
this pa as a jo more therm per ur	port data for plant in Service only. 2. Large planage gas-turbine and internal combustion plants of bint facility. 4. If net peak demand for 60 minute than one plant, report on line 11 the approximate basis report the Btu content or the gas and the quit of fuel burned (Line 41) must be consistent with burned in a plant furnish only the composite heat	nts are steam plants with installed ca f 10,000 Kw or more, and nuclear pla es is not available, give data which is average number of employees assig uantity of fuel burned converted to M n charges to expense accounts 501	apacity (name plate rants. 3. Indicate by available, specifying inable to each plant. lct. 7. Quantities of	ating) of 2 a footnote period. 6. If gas fuel burn	e any plant leas 5. If any empl s is used and p ed (Line 38) an	ed or operated oyees attend urchased on a daverage cost
Line	Item	Plant		Plant		
No.		Name:	4. >	Name:	/-\	
	(a)		(b)		(c)	
1	Kind of Plant (Internal Comb, Gas Turb, Nuclear			<u> </u>		
	Type of Constr (Conventional, Outdoor, Boiler, et	c)				
	Year Originally Constructed					
-	Year Last Unit was Installed					
5	Total Installed Cap (Max Gen Name Plate Rating	s-MW)	0.00			0.00
6	Net Peak Demand on Plant - MW (60 minutes)		_ 0			0
	Plant Hours Connected to Load		0			0
8	Net Continuous Plant Capability (Megawatts)		0			0
9	When Not Limited by Condenser Water		0			0
	When Limited by Condenser Water		0			0
	Average Number of Employees		0			0
	Net Generation, Exclusive of Plant Use - KWh Cost of Plant: Land and Land Rights		0			0
14	Structures and Improvements		0			0
15	Equipment Costs					0
16	Asset Retirement Costs		0	 		0
17	Total Cost		0		· · · · · · · · · · · · · · · · · · ·	. 0
	Cost per KW of Installed Capacity (line 17/5) Incli	uding	0			0
	Production Expenses: Oper, Supv, & Engr		0			0
20	Fuel		0			0
21	Coolants and Water (Nuclear Plants Only)		0			0
22	Steam Expenses		0			0
23	Steam From Other Sources		0			0
	Steam Transferred (Cr)	·	0			0
	Electric Expenses		0			0
26	Misc Steam (or Nuclear) Power Expenses		0			0
27	Rents		0			0
28 29	Allowances Maintenance Supervision and Engineering		0			0
30	Maintenance of Structures		0			0
31	Maintenance of Boiler (or reactor) Plant	4	0			0
32	Maintenance of Electric Plant		. 0			0
33	Maintenance of Misc Steam (or Nuclear) Plant		0			0
34	Total Production Expenses		0			0
35	Expenses per Net KWh		0.0000			0.0000
36	Fuel: Kind (Coal, Gas, Oil, or Nuclear)				-	
37	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indication)					
	Quantity (Units) of Fuel Burned	0 0	0	0	0	0
39	<u> </u>		0	0	0	0
40	<u> </u>		0.000	0.000	0.000	0.000
41	Average Cost of Fuel Burned per Million BTLL	0.000 0.000 0.000 0.000		0.000	0.000	0.000
	Average Cost of Fuel Burned per Million BTU Average Cost of Fuel Burned per KWh Net Gen			0.000	0.000	0.000
	Average Cost of Fuel Burned per KWh Net Gen Average BTU per KWh Net Generation	0.000 0.000		0.000	0.000	0.000
	745 age b to per tay it rest delicitation	3.000 0.000		2.230	15.000 -	1

1 3 f D										
Nam'e of Respondent Northern States Power Company (Minnesota)			This	Report Is: [X] An Original		Date of Report Year/Period of Repo				
Northern Sta	tes Power Compa	any (Minnesota)	(2)	A Resubmission	,	04/06/2018 End of 2017/Q4				
		STEAM-ELEC	TRIC GENE	ERATING PLANT ST.	ATISTICS (Large	e Plants)/Con	tinued)			
Items unde	er Cost of Plant a			ts. Production exper				Control and Load		
				Supply Expenses. 1						
				e Account Nos. 553 a						
				ated plants. 11. Fo						
				eport each as a sepa						
				s-turbine with the ste						
				cluding any excess c						
				er informative data co						
		and operating ch				,		ypo ama quaminty		
Plant			Plant			Plant			Line	
Name: ASK	King		Name: Pra	airie Island		Name: Blue	e Lake		No.	
	(d)			(e)			(f)			
7.										
		Steam			Nuclear			Gas Turbine	1	
		Conventional			Conventional			Ind Enclosures		
		1968			1973			1974	_	
		1968			1974			2005	+	
		598.40			1186.20			559.32	_	
		532			1116			369	_	
		6833			8760			462	+	
		511			1092			545	_	
		511			1092			545		
		511			1040			453		
		82			673			3	-	
		2913347900			8744731000	79917000				
		1335100			969282			141878	-	
		38715830			322664775			1623647	1	
		657806782			1703019911			94675144	1	
		3833412			-139278542			94817	1	
		701691124			1887375426	96535486				
		1172.6122			1591.1106			172.5944	1.	
		649242			39416155	94824				
		66253379	+		73389169					
		0			4957422					
		7308288			28208500					
		0			0	0				
		0			0	0				
		364585			2503716			151885	2	
		2740640			76292057			32760	-	
		998990			6761886			59775	_	
		990990			0701000			0	+	
		1365480			2743204			2389	-	
		1652987			419818			217669		
								217669	_	
		7275984			24176832					
		1590651			7635084			701535	_	
		2071898			20755162			174	_	
		92272124			287259005			6096231	+	
	T ₀	0.0317		T.	0.0328		-	0.0763	-	
Coal	Gas	Oil		Nuclear		Gas		Oil	3	
Tons	MCF	Barrels		Grams U-235		MCF		Barrels	3	
1646428	49877	45	0	832763	0	851485	0	2645	3	
3898	1061	137894	0	110721	0	1060	0	138002	3	
37.472	3.794	78.029	0.000	0.000	0.000	5.376	0.000	97.535	4	
	3.794	78.029	0.000	0.000	0.000	5.376	0.000	97.535	4	
40.162	3.577	13.473	0.000	0.800	0.000	5.070	0.000	16.828	4	
					0.000	0.000	0.000	10000		
2.257	0.020	0.000	0.000	0.010	0.000	0.000	0.060	0.000	4	
2.257 0.000 0.000	0.020 10075.100	0.000	0.000	0.010	0.000	0.000	11488.010	0.000		

Name of Resp	ondent						Date of Report Year/Period of Report (Mo, Da, Yr)				
Northern State	es Power Compa	ıny (Minnesota)	(1)	An Ongmai	on	,	14/06/2018	End o	of 2017/Q4		
		STEAM ELEC		L RATING PLANT S				ued)			
	0								antrol and Load	_	
Dispatching, and 549 of the signed for posteam, hydro, in the sycle operation ootnote (a) acused for the value of the valu	nd Other Expens in Line 25 "Electricate load service. internal combust in with a conventicounting methodurious componen	es Classified as O ic Expenses," and Designate autom ion or gas-turbine onal steam unit, in- for cost of power	ther Power S Maintenance atically opera equipment, re clude the gas generated ind (c) any other	s. Production expupply Expenses. Account Nos. 553 ated plants. 11. Is port each as a selecturbine with the significant excess informative data of plant.	10. For IC as and 554 on I For a plant ecparate plant. team plant. costs attribu	ind G Line 3 Juippe Howe 12. I ted to	T plants, report 32, "Maintenance ed with combina ever, if a gas-tur f a nuclear power research and d	Operating Experts of Electric Plart tions of fossil fue bine unit functions generating placevelopment; (b)	nses, Account N nt." Indicate plan el steam, nuclea ns in a combine ant, briefly explai types of cost un	its r d n by nits	
Plant			Plant				Plant			Line	
Name: Inver I	Hills		Name: Higi	h Bridge 7, 8, 9			Name: Montio			No.	
	(d)			(e)				(f)			
		Gas Turbine			Combined Cy	/cle			Nuclear	1	
		Ind Enclosures			Convention				Conventional	2	
		1972				924			1971	3	
		1972			20	800			1971	4	
		280.50			644	.06			684.97	5	
		175				631			668	6	
		142				884			8052	7	
		371 371	-			606 606			646 646	8	
		282				530			617	10	
		7						525	11		
		4539322			1984030	000	5159590000				
		432561			528	150			783302	13	
		1914621			70931				236023851	14	
		57700009			318690				1198586556	15	
		114211			390169	394			132475222 1567868931	16 17	
		60161402 214.4792			605.7				2288.9600	18	
		633			628				26052591	19	
		480671			55215				40972655	20	
		0				0	4207868				
		0				0	21840019				
		0				0	0				
		0			0404	0	0				
		192187 48625			2191: 728:	_	17697 54761239				
		60464			529				4956185	26 27	
		0			-	0			0	28	
		136			492	032			2485880	29	
		294898			844	153			0	30	
		0				0			14942183	31	
		482221			955	_			3960920 10616548	32	
		3984 1563819			61683	471 890			184813785	34	
		0.3445			0.0	_			10.0358	35	
	Gas	Oil		Gas				Nuclear		36	
	MCF	Barrels		MCF				Grams U-235		37	
0	111743	465	0	13319751	0		0	486114	0	38	
0	1059	139782	0	1060	0		0	111193	0	39	
0.000	3.978	77.844	0.000	4.145	0.000		0.000	0.000	0.000	40	
0.000	3.978	77.844 13.260	0.000	4.145 3.912	0.000	_	0.000	0.000	0.000	41	
0.000	0.110	0.000	0.000	0.030	0.000	_	0.000	0.702	0.000	43	
0.000	26655.950	0.000	0.000	7114.560	0.000		0.000	10479.490	0.000	44	
	,				,						

Name of Res	pondent	114.1		Report Is:		Date of Repo	ear/Period of Report	:]			
Northern Sta	tes Power Comp	any (Minnesota)	(1)	X An Original A Resubmis	sion	(Mo, Da, Yr) 04/06/2018	E	nd of 2017/Q4			
		STEAM-ELE			STATISTICS (La		untinued)				
ltome und	ar Cost of Plant a					<u></u>		m Control and Load			
								m Control and Load xpenses, Account N	<u></u>		
47 and 549	on Line 25 "Flect	ric Exnenses " and	Maintenanc	e Account Nos. 5	. 10. 10110 and 53 and 554 on Lir	ne 32 "Mainten	ance of Flectric	Plant." Indicate plan	us.		
								il fuel steam, nuclea			
								ections in a combine			
								g plant, briefly explai			
								; (b) types of cost un			
					a concerning plan	t type fuel usec	l, fuel enrichmer	nt type and quantity t	for the		
	and other physica	al and operating ch	T	of plant.					,,		
Plant	. D 0 0 4		Plant	016.		Plant			Line		
Name: <i>Black</i>	(d)		Name: <i>K</i> e	у Спу (e)		Name:	/ f \		No.		
	(u)			(8)			(f)				
		Steam			Gas Turbin				1		
 		Conventional		· · · · · · · · · · · · · · · · · · ·	Ind Enclosure				2		
		1952			197				3		
		1960			197				4		
·		0.00			0.0			0.00	5		
		0.00				0		0.00	6		
		0				0		0	7		
		0				0		0	8		
		0				0		0	9		
		0				0		0	10		
		0				0	0				
		0			-592	- 		0	11 12		
		0			6749						
		0			100226			0	13 14		
	· · · · · · · · · · · · · · · · · · ·	0			759764			0	15		
		0				0		0	16		
		0			866740	8	.,	0	17		
		0		,		0		0	18		
		269342				0	0				
		4083				0	0				
		0				0	20				
		2855055				0					
		0				0		0	23		
		0				0		0	24		
		22801				0		0	25		
		307862			5	9		0	26		
		322936			49	1		0	27		
		0			`	0		0	28		
		26620				0		0	29		
		630843			163	9		0	30		
		198764				0		0	31		
		974597			655			0	32		
		953716				0		0	33		
		6566619			874			0	34		
		0.0000			-1.476	57		0.0000	35		
· · · · ·	Oil								36		
`	Barrels	1							37		
))	139766	0	0	0	0	0	0	0	38		
0.000	88.014	0.000	0.000	0.000		0 000	0.000	0 ,	39		
0.000	88.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	40		
0.000	14.993	0.000	0.000	0.000	0.000	0.000	0.000	0.000	41		
0.000	0.080	0.000	0.000	0.000	0.000	0.000	0.000	0.000	42		
0.000	6459.460	0.000	0.000	0.000	0.000	0.000	0.000	0.000	43 44		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0708,400	0.000	0.000	10.000	0.000	0.000	0.000	0.000	44		

Name of Respondent				This Report is: (1) X An Original					(Ma Da Va)			
Northern States F	Power Company	y (Minnesota)	1 '		An Originai A Resubmi			(Mo, Da, Yr) 04/06/2018 End of <u>2017/C</u>			2017/Q4	
		STEAM-ELEC	TRIC G	ENERAT	ΓING PLAN	T STATISTICS	Large	e Plants)(Co	ntinued)			
D. Items under Co Dispatching, and 0 547 and 549 on Li designed for peak steam, hydro, inte cycle operation wi ootnote (a) accou used for the variouseport period and	Other Expenses ine 25 "Electric a load service. I brnal combustion ith a convention unting method fous components	s Classified as O Expenses," and Designate autom n or gas-turbine al steam unit, in- or cost of power of fuel cost; and	ther Pov Mainten atically o equipme clude the generate (c) any	ver Supp ance Acc operated ent, repor e gas-turl ed includi other info	ly Expense count Nos. plants. 1 teach as a bine with thing any excormative da	s. 10. For IC 553 and 554 or 1. For a plant of separate plant of steam plant. The sees costs attributes.	and G Line 3 Equippe Howe 12.	T plants, rep 32, "Mainten ed with comb ever, if a gas If a nuclear p o research an	oort Operating ance of Elect binations of fo s-turbine unit bower genera nd developme	g Expenses tric Plant." In possil fuel ste functions in tting plant, b ent; (b) type	, Account N ndicate plan eam, nuclea a combined riefly explai s of cost un	its r d n by iits
Plant	outor priyotour c	and operating on	Plant	от р.				Plant				Line
Name:			Name:		(-)			Name:	(f)			No.
	(d)				(e)				(f)			
												1
												2
												3
												4
		0.00					0.00				0.00	5 6
		0		 		<u></u>	0				0	7
		0					0				0	8
		0					0				0	9
		0					0				0	10
		0					0			· · · · · · · · · · · · · · · · · · ·	0	11 12
		0					- 0				0	13
•		0					0		at .		0	14
	0					0				0	15	
		0					0				0	16
		0	0								0	17 18
		0					0				0	19
		0					0				0	20
		0					0				0	21
		0					0		, , , , , , , , , , , , , , , , , , , ,		0	22
		0					0_				0	23
		0					0				0	24 25
		0					0				0	26
		0					0				0	27
		0					0				0	28
		0					0.				0	29 30
		0					0				0	31
		0					0				0	32
		0					0		,		0	33
		0					0				0	34
· · · · · · · · · · · · · · · · · · ·		0.0000				0.	.0000		T	1	0.0000	35 36
												37
0 (0	0	0		0	0		0	0	0		38
0 (0	0	0		0	0		0	0	0		39
	0.000	0.000	0.000		0.000	0.000		0.000	0.000	0.0		40
	0.000	0.000	0.000		0.000	0.000		0.000	0.000	0.0		41 42
	0.000	0.000	0.000		0.000	0.000		0.000	0.000	0.0		43
	0.000	0.000	0.000		0.000	0.000		0.000	0.000	0.0		44

Name of Respondent	This Report is:	Date of Report	Year/Period of Report
	(1) <u>X</u> An Original	(Mo, Da, Yr)	·
Northern States Power Company (Minnesota)	(2) _ A Resubmission	04/06/2018	2017/Q4
	FOOTNOTE DATA		

Schedule Page: 403 Line No.: -1 Column: e

Instruction 12 - Prairie Island Nuclear Generating Plant (p. 403)

- (a) Operating and maintenance costs of the Prairie Island Plant are expensed as incurred. NSP-Minnesota uses a deferral and amortization method for nuclear refueling operation and maintenance costs. This method amortizes refueling outage costs over the period between refueling outages consistent with how the costs are recovered ratably in electric cases.
- (b) NSP-Minnesota buys and owns the fuel for this plant. The standard FERC accounting system is used to make a breakdown of the various components of fuel costs.
- (c) The Prairie Island Plant has two identical Westinghouse 2 loop PWR Nuclear Power Plants. Fuel material is U02 contained in zirconium alloy based cladding. The equilibrium cycle has approximately 47 metric tons of uranium metal with a nominal U-235 enrichment of 4.95 weight percent in the fresh fuel. The reactor is licensed to operate at 1677 MWt.

Schedule Page: 402.1 Line No.: -1 Column: b

Sherburne County Generating Plant Unit 3 is jointly owned by NSP-Minnesota (59 percent) and Southern Minnesota Municipal Power Agency (41 percent). See Note 4 of the Financial Statements on Page 123 for disclosures regarding Sherco Unit 3.

Schedule Page: 403.1 Line No.: -1 Column: f

Instruction 12 - Monticello Nuclear Generating Plant (p. 403.1)

- (a) Operating and maintenance costs of the Monticello Plant are expensed as incurred. NSP-Minnesota uses a deferral and amortization method for nuclear refueling operation and maintenance costs. This method amortizes refueling outage costs over the period between refueling outages consistent with how the costs are recovered ratably in electric cases.
- (b) NSP-Minnesota buys and owns the fuel for this plant. The standard FERC accounting system is used to make a breakdown of the various components of fuel costs.
- (c) The Monticello Plant is a General Electric BWR-3 Nuclear Power Plant. Fuel material is U02 contained in zirconium alloy based cladding. The equilibrium cycle has approximately 84 metric tons of uranium metal with a nominal U-235 enrichment of 3.8 weight percent in the fresh fuel. The reactor is licensed to operate at 2,004 MWt.

Schedule Page: 402 Line No.: 39 Column: e2

Average heat content of fuel burned is MBTU/kg U235.

Schedule Page: 402.1 Line No.: 39 Column: b1

The "Average Heat Content of Fuel Burned" is calculated as:

Coal: Btu/pound
Oil: Btu/ gallons
Gas: Btu/cubic ft

Schedule Page: 402.1 Line No.: 39 Column: f2

Avearage heat content of fuel burned is in KBTU/gm U235.

Name	e of Respondent	This Report I	s: Original		Date of Report	Year/Period of Report			
North	nern States Power Company (Minnesota)		esubmission		(Mo, Da, Yr) / /		End of 20	18/Q4	
_	STEAM EL	<u> </u>		ANT CTATIC	TICC /I arms Diss		S		
1 0					TICS (Large Plar		22211		
this p as a j more therm per u	eport data for plant in Service only. 2. Large planage gas-turbine and internal combustion plants of oint facility. 4. If net peak demand for 60 minute than one plant, report on line 11 the approximate basis report the Btu content or the gas and the quinit of fuel burned (Line 41) must be consistent with burned in a plant furnish only the composite heat	10,000 Kw or as is not availal average numbuantity of fuel bucharges to ex	more, and nu ble, give data er of employe burned conve pense accou	clear plants. which is ava ees assignabl rted to Mct.	 Indicate by a liable, specifying e to each plant. Quantities of 	a footnote a period. 5 6. If gas i fuel burned	any plant leased	or operated ees attend hased on a everage cost	
_ine	Item		Plant			Plant			
No.	110111		Name: Rive	erside	\	Name: W	/ilmarth		
	(a)			(b)			(c)		
	Kind of Plant (Internal Comb, Gas Turb, Nuclear				Combined Cycle			Steam	
	Type of Constr (Conventional, Outdoor, Boiler, etc.	0)			Conventional			Conventional	
	Year Originally Constructed				1911			1948	
_	Year Last Unit was Installed	. A 4) 4 ()			2009			1951	
	Total Installed Cap (Max Gen Name Plate Ratings	S-IVIVV)			585.90			25.00	
	Net Peak Demand on Plant - MW (60 minutes) Plant Hours Connected to Load				512 6329			19	
	Net Continuous Plant Capability (Megawatts)				500			7967	
9	When Not Limited by Condenser Water		-		500			18 18	
-	When Limited by Condenser Water				454			18	
	Average Number of Employees				19	18			
	Net Generation, Exclusive of Plant Use - KWh				2633272160			100305883	
13	Cost of Plant: Land and Land Rights				450133			499773	
14	Structures and Improvements				52424815			11107836	
15	Equipment Costs				256355881		50341397		
16	Asset Retirement Costs				860791		785153		
17	Total Cost				310091620		62734159		
	Cost per KW of Installed Capacity (line 17/5) Inclu	ıding			529.2569			2509.3664	
	Production Expenses: Oper, Supv, & Engr				612820			411796	
20	Coolerts and Wester (Newland Blants Only)				75130301			571435	
21	Coolants and Water (Nuclear Plants Only) Steam Expenses				152001			0	
23	Steam From Other Sources				152001 0			2113369	
24	Steam Transferred (Cr)				0			0	
	Electric Expenses				1960679			29212	
26	Misc Steam (or Nuclear) Power Expenses				983460			666145	
27	Rents				683106			332668	
28	Allowances				0			0	
29	Maintenance Supervision and Engineering				573428			57629	
30	Maintenance of Structures				1144402			249968	
31	Maintenance of Boiler (or reactor) Plant				0			1681468	
32	Maintenance of Electric Plant				3218028			202599	
33	Maintenance of Misc Steam (or Nuclear) Plant				285983			616733	
34 35	Total Production Expenses				84744208			6933022	
-	Expenses per Net KWh Fuel: Kind (Coal, Gas, Oil, or Nuclear)		-	Gas	0.0322 Oil	RDF	Gas	0.0691	
37	Unit (Coal-tons/Oll-barrel/Gas-mcf/Nuclear-indica	te)		MCF	Barrels	Tons	MCF		
38	Quantity (Units) of Fuel Burned		0	17473748	8	168042	48645	0	
39	Avg Heat Cont - Fuel Burned (btu/indicate if nucle	ear)	0	1081	137757	5689	1068	0	
40	Avg Cost of Fuel/unit, as Delvd f.o.b. during year		0.000	4.301	2141.437	2.138	4.092	0.000	
41	Average Cost of Fuel per Unit Burned		0.000	4.301	2141.437	13.664	4.092	0.000	
42	Average Cost of Fuel Burned per Million BTU		0.000	3.979	379.567	1.201	3.831	0.000	
43	Average Cost of Fuel Burned per KWh Net Gen		0.000	0.029	0.000	0.000	0.010	0.000	
44	Average BTU per KWh Net Generation		0.000	7172.020	0.000	0.000	10637.480	0.000	
							1		

Name of Respondent			This Report Is:			Date of Report		Year/Period of Report			
North	ern States Power Company (Minnesota)	(1)		original esubmission		(Mo, Da, Yr)		End of 2018/Q4			
		(2)	<u> </u>								
	STEAM-ELECTRIC										
this pa as a jo more therm per ur	port data for plant in Service only. 2. Large planage gas-turbine and internal combustion plants of bint facility. 4. If net peak demand for 60 minute than one plant, report on line 11 the approximate basis report the Btu content or the gas and the quit of fuel burned (Line 41) must be consistent with burned in a plant furnish only the composite hear	10,000 es is no averaguantity hare	O Kw or not available number of fuel by jes to exp	nore, and nucle, give data ver of employee urned converte pense account	ear plants. vhich is avail s assignable ed to Mct.	 Indicate by a able, specifying to each plant. Quantities of 	a footnote a period. 5 6. If gas fuel burne	any plant leased 5. If any employe is used and purc d (Line 38) and a	or operated ees attend hased on a everage cost		
Line	Item		Plant					Plant			
No.	item	i idire					Name: G	Granite City	1		
	(a)				(b)			(c)			
	Kind of Plant (Internal Comb, Gas Turb, Nuclear					Steam			Gas Turbine		
2	Type of Constr (Conventional, Outdoor, Boiler, et	tc)				Conventional		In	d Enclosures		
_	Year Originally Constructed					1976			1969		
	Year Last Unit was Installed					1987			1969		
	Total Installed Cap (Max Gen Name Plate Rating	s-MW)				2469.32			72.00		
	Net Peak Demand on Plant - MW (60 minutes)					1890			12		
	Plant Hours Connected to Load					8760			8		
8	Net Continuous Plant Capability (Megawatts)					1879			64		
9	When Not Limited by Condenser Water					1879			64		
10	When Limited by Condenser Water					1879			52		
	Average Number of Employees					215			-536000		
	Net Generation, Exclusive of Plant Use - KWh					10325500371			40240		
	Cost of Plant: Land and Land Rights					5951721			1241718		
14	Structures and Improvements					228475576			7528833		
15	Equipment Costs					1244000049 -3949845			63539		
16	Asset Retirement Costs					1474477501			8874330		
17	Total Cost	المسائم م				597.1188			123.2546		
	Cost per KW of Installed Capacity (line 17/5) Inc	luaing				2085521			-65		
	Production Expenses: Oper, Supv, & Engr	_		-		257369385	1		25557		
20	Fuel Contents and Water (Nuclear Plants Only)					0					
21	Coolants and Water (Nuclear Plants Only) Steam Expenses			-		13904113			0		
	Steam From Other Sources					0			0		
	Steam Transferred (Cr)			-		0			0		
	Electric Expenses					3513955			625		
	Misc Steam (or Nuclear) Power Expenses					11228430			678881		
27	Rents	_				2259665			2490		
_	Allowances					0			0		
_	Maintenance Supervision and Engineering					1612649			-13		
_	Maintenance of Structures					2285508			40202		
31	Maintenance of Boiler (or reactor) Plant					15976825			0		
	Maintenance of Electric Plant					4074048			22783		
33	Maintenance of Misc Steam (or Nuclear) Plant					7582575			-1		
34	Total Production Expenses					321892674			770459		
35	Expenses per Net KWh					0.0312			-1.4374		
36	Fuel: Kind (Coal, Gas, Oil, or Nuclear)			Coal		Oil	Gas		Oil		
37	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indic	cate)		Tons		Barrels	MCF		Barrels		
38				6159611	0	19745	4573	0	71		
39	Avg Heat Cont - Fuel Burned (btu/indicate if nuc	clear)		8824	0	138243	1087	0	138982		
40	Avg Cost of Fuel/unit, as Delvd f.o.b. during yea	ır		38.534	0.000	91.882	4.554	0.000	66.555		
41				41.045	0.000	91.882	4.554	0.000	66.555		
42				2.326	0.000	15.825	4.190	0.000	11.402		
43				0.000	0.020	0.000	0.000	-0.050	0.000		
44	Average BTU per KWh Net Generation			0.000	10546.110	0.000	0.000	-9935.060	0.000		

Name	e of Respondent	ort Is: Date of Rep				ort Year/Period of Report					
Northorn States Power Company (Minnesota)				n Original		,	, Da, Yr)	End of 2018/Q4			
		(2)	^	Resubmission		/ /					
	STEAM-ELECTRIC	GENER	RATII	NG PLANT STA	TISTICS (La	arge Pla	ants) (Con	tinued)			
1. Re	eport data for plant in Service only. 2. Large plan								25 000 Kw or more	Report in	
	age gas-turbine and internal combustion plants of										
as a i	oint facility. 4. If net peak demand for 60 minute	s is not	ava	ilahle qiyedata	which is ava	ار .د ماطواند	enecifying	poriod	5 If any employ	cos attend	
nore	than one plant, report on line 11 the approximate	average	nur	mber of employe	os assignab	diable,	specifying	e If an	s is used and nur	chand on a	
horm	basis report the Btu content or the gas and the qu	iantity c	of fue	al burned conver	es assignad tod to Mot	7 0	acri plant.	o. II ga fuol burn	s is used and pur	chased on a	
oer iii	nit of fuel burned (Line 41) must be consistent with	charge	se to	er burned conver	te folload	7. QU	ino 42) oo o	how on t	led (Line 36) and	average cost	
	s burned in a plant furnish only the composite heat				its 50 i and	547 (LI	11e 42) as s	now on t	Line 20. o. ii m	ore than one	
uciic	barried in a plant familian only the composite field	rate for	all I	lucis burrieu.							
ino	Item			Plant				Dlast			
₋ine No.	nem			Name: Angu	ic Ancon			Plant	Plank Dog 2 E 9		
NO.	(a)			Name. Angu	(b)			name:	Black Dog 2, 5, 8	* 0	
-	(α)				(0)				(c)		
_	Made (District on LOS)		_								
	Kind of Plant (Internal Comb, Gas Turb, Nuclear					Ga	s Turbines			CC / Gas Turb	
	Type of Constr (Conventional, Outdoor, Boiler, etc	c)	_							Conventional	
3	Year Originally Constructed						1994			1987	
4	Year Last Unit was Installed						2005			2018	
5	Total Installed Cap (Max Gen Name Plate Ratings	s-MW)					405.66			554.29	
6	Net Peak Demand on Plant - MW (60 minutes)						340			509	
7	Plant Hours Connected to Load						1402			3803	
	Net Continuous Plant Capability (Megawatts)						386			526	
_				_							
_	When Not Limited by Condenser Water						386	i		526	
	When Limited by Condenser Water						327			494	
	Average Number of Employees						8			26	
12	Net Generation, Exclusive of Plant Use - KWh					1	120297405				
13	Cost of Plant: Land and Land Rights						1155577			952692	
14	Structures and Improvements						7721804			55181473	
15	Equipment Costs			1	15407464			291033543			
16	Asset Retirement Costs				652565			48341			
17	Total Cost					1	124937410			347216049	
18	Cost per KW of Installed Capacity (line 17/5) Inclu	ıding					307.9855			626.4159	
19	Production Expenses: Oper, Supv, & Engr						81597			366260	
20	Fuel						4786448	0		27083450	
21	Coolants and Water (Nuclear Plants Only)						0				
22	Steam Expenses						0				
23	Steam From Other Sources						0				
24	Steam Transferred (Cr)						0				
-	Electric Expenses						6442				
26	Misc Steam (or Nuclear) Power Expenses									1947997	
_							545849			444462	
27	Rents						33535			495440	
28	Allowances		-				0			0	
29	Maintenance Supervision and Engineering			_			2972			413584	
30	Maintenance of Structures						148364			1938448	
31	Maintenance of Boiler (or reactor) Plant						0			154325	
32	Maintenance of Electric Plant						472808			876501	
33	Maintenance of Misc Steam (or Nuclear) Plant						296	,		604478	
34	Total Production Expenses						6078311			34542755	
35	Expenses per Net KWh						0.0505	,		0.0351	
36	Fuel: Kind (Coal, Gas, Oil, or Nuclear)			Gas		Oil		-	Gas		
37	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indica	ite)		MCF		_	rrels		MCF		
38	Quantity (Units) of Fuel Burned	/		1325454	0	-	53	0	7192690	0	
39	Avg Heat Cont - Fuel Burned (btu/indicate if nucle	ear)		1071	0	_	7809	0	1073	0	
40	Avg Cost of Fuel/unit, as Delvd f.o.b. during year		_	3.476	0.000	_	.358	0.000	3.765		
41	Average Cost of Fuel per Unit Burned		_			_				0.000	
_				3.476	0.000	-	.358	0.000	3.765	0.000	
42			_	3.244	0.000		.156	0.000	3.509	0.000	
_				0.000	0.040	-	000	0.000	0.030	0.000	
44	Average BTU per KWh Net Generation			0.000	11928.090	0.0	000	0.000	7870.320	0.000	

Name	of Respondent	This Report Is: (1) An Original			Date of Report		Year/Period of Report *		
North	ern States Power Company (Minnesota)) ' ' L	riginal submission		(Mo, Da, Yr) / /		End of	2018/Q4	
	STEAM-ELECTRIC			ISTICS (I		tinued)			
this pa as a jo more therm per ur	port data for plant in Service only. 2. Large planage gas-turbine and internal combustion plants of bint facility. 4. If net peak demand for 60 minute than one plant, report on line 11 the approximate basis report the Btu content or the gas and the quit of fuel burned (Line 41) must be consistent with burned in a plant furnish only the composite hear	nts are steam pl 10,000 Kw or mes is not availab average numbe uantity of fuel bun charges to exp	ants with instance, and nucle, give data version of employee urned convertense accoun	alled capa lear plants which is a es assigna ed to Mct	acity (name plate ra s. 3. Indicate by a vailable, specifying able to each plant. 7. Quantities of	ting) of 25 a footnote period. 6. If gas fuel burne	any plant leas 5. If any emplosis used and posed (Line 38) and	ed or operated oyees attend urchased on a d average cost	
Line No.	Item		Plant Name:	/l=)		Plant Name:	(a)		
	(a)			(b))		(c)	., <u></u>	
1	Kind of Plant (Internal Comb, Gas Turb, Nuclear								
	Type of Constr (Conventional, Outdoor, Boiler, et	·c)							
	Year Originally Constructed								
	Year Last Unit was Installed								
	Total Installed Cap (Max Gen Name Plate Rating	s-MW)			0.00			0.00	
	Net Peak Demand on Plant - MW (60 minutes)				0			0	
	Plant Hours Connected to Load				0			0	
	Net Continuous Plant Capability (Megawatts)				0			0	
9	When Not Limited by Condenser Water				0			0	
10	When Limited by Condenser Water				0			0	
	Average Number of Employees				0			0	
	Net Generation, Exclusive of Plant Use - KWh				0			0	
13	Cost of Plant: Land and Land Rights				0	1		0	
14	Structures and Improvements				0			0	
15	Equipment Costs				0			0	
16	Asset Retirement Costs				0			0	
17	Total Cost				0			0	
18	Cost per KW of Installed Capacity (line 17/5) Incl	uding			0			0	
19	Production Expenses: Oper, Supv, & Engr				0			0	
20	Fuel				0			0	
21	Coolants and Water (Nuclear Plants Only)				0			0	
22	Steam Expenses				0			0	
23					0			0	
	Steam Transferred (Cr)				0				
	Electric Expenses				0			0	
26	Misc Steam (or Nuclear) Power Expenses		·		0			0	
27					0			0	
	Allowances				0			0	
29					0			0	
30					0			0	
31					0			0	
	Maintenance of Electric Plant Maintenance of Misc Steam (or Nuclear) Plant				0			0	
					0			- 0	
34 35					0.0000			0.0000	
	Fuel: Kind (Coal, Gas, Oil, or Nuclear)			T					
37		ate)		1					
38		<u> </u>	0	0	. 0	0	0	0	
	Avg Heat Cont - Fuel Burned (btu/indicate if nuc	lear)	0	0	0	0	0	0	
	Avg Cost of Fuel/unit, as Delvd f.o.b. during yea		0.000	0.000	0.000	0.000	0.000	0.000	
	Average Cost of Fuel per Unit Burned	-	0.000	0.000	0.000	0.000	0.000	0.000	
42			0.000	0.000	0.000	0.000	0.000	0.000	
	Average Cost of Fuel Burned per KWh Net Gen		0.000	0.000	0.000	0.000	0.000	0.000	
44			0.000	0.000	0.000	0.000	0.000	0.000	
							I		
	·		(

Name of Resp	ondent			Report Is:		Date of Report Year/Period of Report					
Northern Stat	es Power Compa	any (Minnesota)	(1)	An Original A Resubmissio	n	(Mo, Da, Yr) / /	End	of2018/Q4			
		STEAM-ELEC	CTRIC GENE	RATING PLANT S	TATISTICS (Lar	ge Plants)(Con	tinued)				
Dispatching, a 547 and 549 or designed for p steam, hydro, cycle operation footnote (a) ac used for the value of the value	nd Other Expens n Line 25 "Electr eak load service. internal combust n with a convention counting method arious componen	ses Classified as C ic Expenses," and . Designate autom ion or gas-turbine onal steam unit, in I for cost of power	ther Power S Maintenance latically opera equipment, re clude the gas generated inc (c) any other	s. Production expenses. Account Nos. 553 ated plants. 11. Faport each as a sep-turbine with the standing any excess informative data of plant.	10. For IC and and 554 on Line for a plant equiporarate plant. Ho eam plant. 12. costs attributed	GT plants, repo e 32, "Maintenar ped with combin wever, if a gas- If a nuclear po to research and	ort Operating Exp nce of Electric Planations of fossil f turbine unit function wer generating put development; (b	enses, Account N ant." Indicate plan uel steam, nuclea ions in a combined plant, briefly explai p) types of cost un	ts r d n by iits		
Plant	, ,		Plant			Plant			Line		
Name: ASK	ing		Name: Pra	irie Island			Name: Blue Lake				
	(d)			(e)			(f)				
						1					
		Steam			Nuclear			Gas Turbine	1		
		Conventional			Conventional	-		Ind Enclosures	2		
		1968			1973	_		1974	3		
		1968 598.40			1974			2005	4		
		531			1186.20 1122			559.32 361	5 6		
		6188			8760			588	7		
		511			1092			545	8		
		511			1092			545	9		
		511			1040			453	10		
		82			559			5	11		
		2698695700			8983305000		105029000				
		1335100			969281			141878	13		
		39916358			324061645			1712629	14		
		672545674			1889444784			94949685	15		
		3706538			-139278542			87368	16		
		717503670			2075197168			96891560	17		
		1199.0369			1749.4496			173.2310	18		
		647797	1		34709322 75699013			103485 5298805	19		
		04032271			5066176		20 21				
		7272664			27829577		0 0				
		0			21020017						
		0			C			0	23		
		117992			2748220			172519	25		
		3098424			71520409			186791	26		
		1360874			7715923			80039	27		
		0			C			0	28		
		1772783			2845177	-1		25779	29		
		1824737			142945			148655	30		
		7186352 5269129			22656613 6282469			0	31		
		2046356			20593532			551071	32		
		94629379			277809376			24736 6591880	33		
	1	0.0351			0.0309			0.0628	35		
Coal	Gas	Oil		Nuclear		Gas		Oil	36		
Tons	MCF	Barrels		Grams U-235		MCF		Barrels	37		
1504831	53400	44	0	849683	0	1049313	0	2709	38		
8959	1077	138378	0	111007	0	1077	0	138927	39		
39.046	4.165	134.279	0.000	0.000	0.000	4.830	0.000	84.965	40		
42.456	4.165	134.279	0.000	0.000	0.000	4.830	0.000	84.965	41		
2.369	3.869	23.104	0.000	0.808	0.000	4.484	0.000	14.561	42		
0.000	0.020	0.000	0.000	0.010	0.000	0.000	0.050	0.000	43		
0.000	10012.750	0.000	0.000	10487.310	0.000	0.000	10912.760	0.000	44		

Name of Respondent						Date of Report Year/Period of Report					
Northern States Power Company (Minnesota		1 ' '	An Original A Resubmission	on	,	Mo, Da, Yr) / /	End o	of 2018/Q4			
STEAM-F	FCTRIC		TING PLANT S	STATISTICS (I	Large	Plants)/Conti	inued)				
D. Items under Cost of Plant are based on U. Dispatching, and Other Expenses Classified a 547 and 549 on Line 25 "Electric Expenses," a designed for peak load service. Designate au steam, hydro, internal combustion or gas-turbi	S. of A. As Other Fund Maint	Accounts. If Power Supplenance Active Active III	Production expoly Expenses. count Nos. 553 plants. 11.	enses do not i 10. For IC a 3 and 554 on L For a plant eq	includend Gine 3 uippe	de Purchased T plants, repor 32, "Maintenan ed with combin	Power, System C t Operating Expe ce of Electric Plan ations of fossil fu	nses, Account N nt." Indicate plar el steam, nuclea	its r		
cycle operation with a conventional steam unit ootnote (a) accounting method for cost of povused for the various components of fuel cost;	, include ver gener and (c) a	the gas-tur ated includ ny other inf	bine with the s ling any excess formative data	team plant. costs attribut	12. I ed to	f a nuclear poversearch and	wer generating pla development; (b)	ant, briefly explai types of cost ur	n by iits		
eport period and other physical and operating	Plan		iant.		1	Plant			Line		
Plant Name: <i>Inver Hills</i>			ridge 7, 8, 9			Name: Mon	ticello		No.		
(d)			(e)				(f)				
Con Turkin				Combined Cu	olo			Nuclear	1		
Gas Turbin				Combined Cy Conventio	_			Conventional	2		
197					924			1971	3		
197	2			20	800			1971	4		
280.5				644	_			684.97	5		
27	-				324 236			687 8691	6 7		
32					306			646	8		
37	_				306			646	9		
28	2			5	530			617	10		
	7				23			433	11		
1414329				23330820		5618024000 783302					
35180 161640	_			5281 709584	_			245679843	13		
5591567	_			3249708				1255130236	15		
2382	7			178	370			132475222	16		
5790771				3964753				1634068603	17		
206.444	_			615.58				2385.6061 23488610	18 19		
548 ² 148549		459975 63113134					46189505				
140040	0			00110	0	3819542					
	0				0	21799672					
	0				0	0					
0700/	0			21493	0			76051	24		
27696 5970				8074	_			56968199	26		
7328				5810	_			5373782	27		
	0				0			0	28		
34	_			7671				2199775	29		
32889	0			15765	0			18086976	30		
62008	_			6864				3504920	32		
495	0			1319	988			11450023	33		
290458	0			764507	_			192957055	34		
0.205	4		I a	0.03	328		Thusland	0.0343	35 36		
Gas Oil MCF Barrels	_		Gas MCF	+			Nuclear Grams U-235		37		
0 247424 3809	0		16834839	0		0	474307	0	38		
0 1082 139995	0		951	0		0	124409	0	39		
0.000 4.134 121.488	0.00		3.749	0.000		0.000	0.000	0.000	40		
0.000 4.134 121.488	0.00		3.749	0.000	_	0.000	0.000	0.000	41		
0.000 3.822 20.662 0.000 0.110 0.000	0.00		3.944 0.030	0.000	-	0.000	0.787	0.000	42		
0.000 0.110 0.000	0.00		6863.280	0.000		0.000	10504.580	0.000	44		
W:											

Name of Respondent							ate of Report	port Year/Period of Report			
Northern States Power Company (Minnesota)			(1)	(1) An Original (Mo, Da, Yr)			d of				
		STEAM-ELEC	TRIC GENE	ERATING PLANT	STATISTICS (Large	Plants)(Cont	inued)			
Dispatching, 547 and 549 designed for steam, hydro cycle operati ootnote (a) used for the	, and Other Expe on Line 25 "Ele r peak load servi o, internal comb ion with a conve accounting meth various compor	t are based on U. S., enses Classified as Control Expenses," and ce. Designate automoustion or gas-turbine intional steam unit, in and for cost of power lents of fuel cost; and ical and operating ch	ther Power s Maintenanc latically oper equipment, i clude the ga generated in (c) any other	Supply Expenses e Account Nos. 5 rated plants. 11 report each as a s-s-turbine with the acluding any exceer informative dat	1. 10. For IC a 153 and 554 on I 1. For a plant ec separate plant. 2. steam plant. 2. steam plant. 2. steam plant.	ind G Line 3 Juippe Howe 12. I ted to	T plants, reports, "Maintenants of with combine over, if a gas-tof a nuclear porters and	rt Operating Expose of Electric Postions of fossillurbine unit functions of the control of the c	penses, Account N lant." Indicate plar fuel steam, nuclea tions in a combine plant, briefly expla (b) types of cost un	los. nts ar d in by nits	
Plant	ck Dog 3 & 4 (d)		Plant Name: Ke				Plant Name: Bens	son (f)		Line No.	
		Steam			Gas Turb	_			Steam	1	
		Conventional			Ind Enclosu	_			Conventional	2	
_		1952 1960				970			2007	3	
_		0.00	0.00			_	2007				
		0.00				0	0.00				
		0				0					
		0	0			0	0				
		0				0	0				
		0	0			0					
		0				_	0				
		0	0 67495				0				
		0	1002265				0				
0 0 0 0					7597	_			0	-	
			0 8667408						0	-	
							0				
			0			0	0				
						_			0	_	
		293	0 0 0 0 0 0 25 0 768 0 0 1845 0			_	0				
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Name of Respondent			This Report Is:			Date of Report		Year/Period of Report			
Northern States Power Company (Minnesota)			(1) An Original (Mo, (2) A Resubmission / /			•	Mo, Da, Yr) / / End of <u>20</u>		2018/Q4	:018/Q4	
		STEAM-ELEC			STATISTICS (L		(Continued)	<u> </u>			
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footnote (a) ac used for the v	ccounting meth arious compone	ntional steam unit, in od for cost of power ents of fuel cost; and cal and operating ch	generated in (c) any othe	cluding any exce r informative dat	ess costs attribute	ed to researc	h and develo	pment; (b)	types of cost ur	its	
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Name of Respondent	This Report is:	Date of Report	Year/Period of Report						
	(1) An Original	(Mo, Da, Yr)							
Northern States Power Company (Minnesota)	(2) _ A Resubmission	11	2018/Q4						
FOOTNOTE DATA									

Schedule Page: 403 Line No.: -1 Column: e

Instruction 12 - Prairie Island Nuclear Generating Plant (p. 403)

- (a) Operating and maintenance costs of the Prairie Island Plant are expensed as incurred. NSP-Minnesota uses a deferral and amortization method for nuclear refueling operation and maintenance costs. This method amortizes refueling outage costs over the period between refueling outages consistent with how the costs are recovered ratably in electric cases.
- (b) NSP-Minnesota buys and owns the fuel for this plant. The standard FERC accounting system is used to make a breakdown of the various components of fuel costs.
- (c) The Prairie Island Plant has two identical Westinghouse 2 loop PWR Nuclear Power Plants. Fuel material is U02 contained in zirconium alloy based cladding. The equilibrium cycle has approximately 47 metric tons of uranium metal with a nominal U-235 enrichment of 4.95 weight percent in the fresh fuel. The reactor is licensed to operate at 1677 MWt.

Schedule Page: 402.1 Line No.: -1 Column: b

Sherburne County Generating Plant Unit 3 is jointly owned by NSP-Minnesota (59 percent) and Southern Minnesota Municipal Power Agency (41 percent). See Note 4 of the Financial Statements on Page 123 for disclosures regarding Sherco Unit 3.

Schedule Page: 403.1 Line No.: -1 Column: f

Instruction 12 - Monticello Nuclear Generating Plant (p. 403.1)

- (a) Operating and maintenance costs of the Monticello Plant are expensed as incurred. NSP-Minnesota uses a deferral and amortization method for nuclear refueling operation and maintenance costs. This method amortizes refueling outage costs over the period between refueling outages consistent with how the costs are recovered ratably in electric cases.
- (b) NSP-Minnesota buys and owns the fuel for this plant. The standard FERC accounting system is used to make a breakdown of the various components of fuel costs.
- (c) The Monticello Plant is a General Electric BWR-3 Nuclear Power Plant. Fuel material is U02 contained in zirconium alloy based cladding. The equilibrium cycle has approximately 84 metric tons of uranium metal with a nominal U-235 enrichment of 3.8 weight percent in the fresh fuel. The reactor is licensed to operate at 2,004 MWt.

Schedule Page: 403.2 Line No.: -1 Column: f

On June 29, 2018 NSP-Minnesota acquired the Benson Power Facility. For additional information, see page 108 item 3.

Schedule Page: 402.2 Line No.: 1 Column: c

Black Dog Unit 2 & 5 are combined cycle plants. Black Dog Unit 6 is a gas turbine.

Schedule Page: 402 Line No.: 39 Column: e2

Average heat content of fuel burned is MBTU/kg U235.

Schedule Page: 402.1 Line No.: 39 Column: b1

The "Average Heat Content of Fuel Burned" is calculated as:

Coal: Btu/pound
Oil: Btu/ gallons
Gas: Btu/cubic ft

Schedule Page: 402.1 Line No.: 39 Column: f2

Average heat content of fuel burned is in MBTU/kg U235.

FERC	FORM	NO. 1 (ED.	12-87)
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