



April 1, 2002

414 Nicollet Mall
Minneapolis, Minnesota 55401-1993

Mr. Paul Kim
Environmental Pollution Control Agency
Integrated Data Management Unit
520 Lafayette Road N.
St. Paul, MN 55155-4194

Re: Air Pollutant Emissions Inventory Report for 2001

Enclosed are Northern States Power d/b/a Xcel Energy's 2001 Air Pollutant Emissions Inventory Report completed and signed for the following facilities owned and operated by Northern States Power Company d/b/a Xcel Energy:

<u>Facility Name</u>	<u>Facility I.D. #</u>	<u>Facility Name</u>	<u>Facility I.D. #</u>
Allen S. King	16300005	Minnesota Valley	02300012
Alliant Techsystems	05300697	Monticello	17100019
Black Dog	03700003	Prairie Island	04900030
Blue Lake	13900010	Red Wing	04900005
General Office	05300855	Riverside	05300015
Granite City	00900021	Sherburne County	14100004
High Bridge	12300012	United Healthcare	05300698
Inver Hills	03700015	Wescott	03700064
Key City	01300015	West Faribault	13100003
Maple Grove	05300898	Wilmarth	01300015

Northern States Power d/b/a Xcel Energy also owns and operates three (3) oil-fired generators located at the United Hospital Facility in St. Paul. These units are included in the facility Emission Inventory Report which is signed and submitted by United Hospital. The NSP-Compost & Wood Processing Facility located in Burnsville, MN is longer owned and operated by Northern States Power d/b/a Xcel Energy and is not included in this submittal.

The Additional Data Summary is also enclosed.

If you have any questions, please call me at 612/330-5956.

Sincerely,

Alma Allen-Webb
Sr. Environmental Scientist

Enclosures

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Air Pollutant Emissions Inventory Report for 2001

cc: ES Record Center
Rick Rosvold w/attachments
Nancy Stafki w/attachments
John Chelstrom w/attachments
Lee Eberley w/o attachments
Mike Miser – King Plant
Brian Anderson – Alliant Techsystems, Granite City, United Healthcare
Jim Paris – Black Dog Plant
Steve Chapman – West Faribault, Blue Lake, Key City, Inver Hills
Scott Anton – High Bridge Plant
Karen Olson – Maple Grove
Gloria Tieszen – Minneosta Valley
Nick Gamble – Prairie Island
Gary Kolle – Prairie Island
~~Rick Fatsch – Monticello~~
Arthur Zimmerman – Red Wing Plant
Loretta Smith – Riverside Plant
Bob Catron – Sherco Plant
Jim Goodchild – Wescott Plant
Nathan Svoboda – Wilmarth Plant

Facility Name:	NSP - Monticello Nuclear Plant	Inventory Contact:	Eberley, Lee W
Location Street Address:	2807 W County Road 75	Job Title:	Air Quality Manager
City/ZIP:	Monticello 55362-9637	Mail Address:	414 Nicollet Mall
County:	Wright	City/St/ZIP:	Minneapolis, MN 55401-1993
		Contact Phone:	(612) 330-5596
		Contact Fax:	(612) 330-6357
		Contact E-Mail:	

I certify under penalty of law that this document and all attachments were prepared under my direction or supervised by qualified personnel. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I understand that the data provided in this document will be used by the MPCA to calculate a fee, which my facility will be required to pay under Minnesota Rules, part 7002.0025, based on tons of pollutants emitted by the facility.

Signature and Title of Company Official (please write): *Jack Purkis Plant Manager* Date: 3/26/02

Name and Title of Company Official (please print): Jack Purkis, Plant Manager

Return To: Paul Kim (651) 296-7320 or
Dana Vanderbosch (651) 282-5849

Minnesota Pollution Control Agency
Environmental Outcomes Division
Integrated Data Management Unit
520 Lafayette Road N
St. Paul, MN 55155-4194

Operating Schedule

Monticello

	Average Working Schedule				% Annual Throughput			
	Percent Heating	Hours Per Day	Days Per Week	Hours Per Year	Dec-Feb	Mar-May	Jun-Aug	Sep-Nov
EU 001 Boiler	100	11.17	3.26	4078.1	52.2	27.9	0.1	19.8
EU 002 Diesel Generator 11	0	0.096	0.028	35.1	23.9	15.1	15.4	45.6
EU 003 Diesel Generator 12	0	0.079	0.023	28.9	39.4	22.5	17.6	20.4
EU 004 Security Diesel Generator	0	0.023	0.007	8.2	13.4	41.5	12.2	32.9
EU 005 Fire Pump Diesel Engine	0	0.108	0.032	39.6	21.1	18.2	26.5	34.2
EU 006 Diesel Generator 13	0	0.055	0.016	20.0	30.0	25.0	30.0	15.0
EU 007 Temporary Engine > 600 Hp	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EU 008 Temporary Engine < 600 Hp	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Throughput Information

Monticello

Unit	Unit Description	Segment Description	Throughput	Throughput Units	Sulfur	Ash
					%	%
EU 001	Boiler	#2 fuel oil	252.18	1000 gallons burned	< 0.50	N/A
EU 002	Diesel Generator 11	Diesel	5.97	1000 gallons burned		N/A
EU 003	Diesel Generator 12	Diesel	4.91	1000 gallons burned		N/A
EU 004	Security Diesel Generator	Diesel	0.10	1000 gallons burned		N/A
EU 005	Fire Pump Diesel Engine	Diesel	0.32	1000 gallons burned		N/A
EU 006	Diesel Generator 13	Diesel	2.22	1000 gallons burned		N/A
EU 007	Temporary Engine > 600 Hp	Diesel	N/A	1000 gallons burned	N/A	N/A
EU 008	Temporary Engine < 600 Hp	Diesel	N/A	1000 gallons burned	N/A	N/A

ADDITIONAL FUEL DATA

PLANTS	EMISSION UNITS	NUC MBTU	COAL MBTU	RDF MBTU	GAS MBTU	OIL MBTU
PLANTS	EMISSION UNITS	NUCLEAR MBTUS	COAL MBTUS	RDF OTHER MBTUS	NATURAL GAS MBTUS	OIL MBTUS
Black Dog	1					
Black Dog	2					
Black Dog	3		5,641,667		106,661	539
Black Dog	4		6,046,479		114,315	578
Blue Lake	1					55,950
Blue Lake	2					75,968
Blue Lake	3					75,984
Blue Lake	4					59,646
Granite City	1				22,859	979
Granite City	2				20,078	860
Granite City	3				24,322	1,042
Granite City	4				18,027	772
High Bridge	3					
High Bridge	4					
High Bridge	5		5,135,337		306,580	
High Bridge	6		9,613,532		147,970	
Inver Hills	1				261,147	
Inver Hills	2				269,641	
Inver Hills	3				250,512	
Inver Hills	4				171,551	
Inver Hills	5				215,412	
Inver Hills	6				231,727	
Key City	4				38,032	
Key City	5				25,859	

Air Pollutant Emissions Inventory Report 2001

Operating Schedule

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Heating Boiler	739.3	670.5	735.2	395.8	6.1	0.0	0.0	2.2	67.9	341.4	399.5	720.2
DG 11	2.4	3.4	1.7	2.1	1.5	1.8	1.9	1.7	1.5	3.5	11.0	2.6
DG 12	1.7	3.4	1.5	1.4	3.6	0.0	3.6	1.5	1.8	1.6	2.5	6.3
Security DG	0.4	0.3	0.3	0.3	2.8	0.3	0.4	0.3	0.4	2.0	0.3	0.4
Fire Pump DG	2.66	2.78	2.60	2.60	2.00	2.82	5.04	2.65	9.02	2.26	2.25	2.93
DG 13	1.0	2.0	2.0	2.0	1.0	2.0	2.0	2.0	1.0	2.0	0.0	3.0

Six Month Totals	January - June	July - December
Heating Boiler	2546.9	1531.2
DG 11	12.9	22.2
DG 12	11.6	17.3
Security DG	4.4	3.8
Fire Pump DG	15.5	24.2
DG 13	10.0	10.0

	Average Working Schedule			% Annual Throughput			
	Hrs/Day	Days/Wk	Hrs/Yr	Dec - Feb	Mar - May	Jun - Aug	Sep - Nov
Heating Boiler	11.17	3.26	4078.1	52.2	27.9	0.1	19.8
DG 11	0.0961	0.0280	35.1	23.9	15.1	15.4	45.6
DG 12	0.0791	0.0231	28.9	39.4	22.5	17.6	20.4
Security DG	0.0225	0.0065	8.2	13.4	41.5	12.2	32.9
Fire Pump DG	0.1084	0.0316	39.6	21.1	18.2	26.5	34.2
DG 13	0.0548	0.0160	20.0	30.0	25.0	30.0	15.0

Air Pollutant Emissions Inventory Report 2001

Throughput Information.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
Heating Boiler	48592.2	48769.0	43226.7	25258.9	654.2	0.0	0.0	205.9	3633.2	17461.8	20806.5	43569.2	252.18	1,000 Gallons Burned
DG 11	408.0	578.0	289.0	357.0	255.0	306.0	323.0	289.0	255.0	595.0	1870.0	442.0	5.97	1,000 Gallons Burned
DG 11	289.0	578.0	255.0	238.0	612.0	0.0	612.0	255.0	306.0	272.0	425.0	1071.0	4.91	1,000 Gallons Burned
Security DG	5.1	3.8	3.8	3.8	35.8	3.8	5.1	3.8	5.1	25.6	3.8	5.1	0.10	1,000 Gallons Burned
Fire Pump DG	21.5	22.5	21.1	21.1	16.2	22.8	40.8	21.5	73.1	18.3	18.2	23.7	0.32	1,000 Gallons Burned
DG 13	111.2	222.4	222.4	222.4	111.2	222.4	222.4	222.4	111.2	222.4	0.0	333.6	2.22	1,000 Gallons Burned

**Monticello Nuclear Generating Plant
Fuel Usage Report**

Period Covered: January 1 - June 30, 2001

Unit	MPCA Emission Unit No.	Hours Operated	Fuel Consumption Rate (gal/hr) ¹	Fuel Amount Used (gal)	NOx Emission Rate ^{2,3,4,6} (lb/gal)	NOx Emissions (tons)	SO2 Emission Rate ^{4,5,6} (lb/gal)	SO2 Emissions (tons)	PM Emission Rate ^{4,6} (lb/gal)	PM Emissions (tons)
Boiler 1	EU001	-	208.6	166,501	0.0262	2.18	0.0720	5.99	0.0020	0.17
D11	EU002	12.9	170	2,193	0.4480	0.49	0.0707	0.08	0.0098	0.01
D12	EU003	11.6	170	1,972	0.4480	0.44	0.0707	0.07	0.0098	0.01
Security	EU004	4.4	12.8	56	0.6174	0.02	0.0406	0.00	0.0434	0.00
Fire Pump	EU005	15.5	8.1	126	0.6174	0.04	0.0406	0.00	0.0434	0.00
D13	EU006	10	111.2	1,112	0.3602	0.20	0.0707	0.04	0.0098	0.01
Totals				171,960		3.37		6.18		0.20

1. Fuel consumption rates (maximum capacity) taken from Title V application.

2. Boiler NOx emission rate from 1/1/1996 stack test.

3. D13 NOx emission rate from 10/18 2000 stack test.

4. Boiler emission rates from MPCA Table EC-02.1; Engine emission rates from MPCA Table EC-03.1 (lb/mmBTU rates converted to lbs/gal)

5. Assumes 0.5% S in fuel.

6. Assumes fuel heat value of 140,000 Btu/gal

shaded area represents manually entered data.

**Monticello Nuclear Generating Plant
Fuel Usage Report**

Period Covered: July 1 - December 31, 2001

Unit	MPCA Emission Unit No.	Hours Operated	Fuel Consumption Rate (gal/hr) ¹	Fuel Amount Used (gal)	NOx Emission Rate ^{2,3,4,6} (lb/gal)	NOx Emissions (tons)	SO2 Emission Rate ^{4,5,6} (lb/gal)	SO2 Emissions (tons)	PM Emission Rate ^{4,6} (lb/gal)	PM Emissions (tons)
Boiler 1	EU001	-	208.6	85,677	0.0262	1.12	0.0720	3.08	0.0020	0.09
D11	EU002	22.2	170	3,774	0.4480	0.85	0.0707	0.13	0.0098	0.02
D12	EU003	17.3	170	2,941	0.4480	0.66	0.0707	0.10	0.0098	0.01
Security	EU004	3.8	12.8	49	0.6174	0.02	0.0406	0.00	0.0434	0.00
Fire Pump	EU005	24.2	8.1	196	0.6174	0.06	0.0406	0.00	0.0434	0.00
D13	EU006	10	111.2	1,112	0.3602	0.20	0.0707	0.04	0.0098	0.01
Totals				93,749		2.90		3.37		0.13

1. Fuel consumption rates (maximum capacity) taken from Title V application.
 2. Boiler NOx emission rate from 1/1/1996 stack test.
 3. D13 NOx emission rate from 10/18 2000 stack test.
 4. Boiler emission rates from MPCA Table EC-02.1; Engine emission rates from MPCA Table EC-03.1 (lb/mmBTU rates converted to lbs/gal)
 5. Assumes 0.5% S in fuel.
 6. Assumes fuel heat value of 140,000 Btu/gal
- shaded area represents manually entered data.