

INTERNAL DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

TO:  
  
Mr. J. G. Keppler

FROM:  
Northern States Power Company  
Minneapolis, Minnesota  
L. O. Mayer

DATE OF DOCUMENT  
8/23/76

DATE RECEIVED  
8/26/76

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DESCRIPTION

Ltr. trans the following:

PLANT NAME:  
Monticello

(1-P)

ENCLOSURE

Effluent and Waste Disposal  
Semiannual Report  
January 1 - June 30/76

ACKNOWLEDGED

DO NOT REMOVE

(5-P)

SAFETY

FOR ACTION/INFORMATION

ENVIRO 8/26/76 RJL

<input checked="" type="checkbox"/> ASSIGNED AD:		ASSIGNED AD:
<input checked="" type="checkbox"/> BRANCH CHIEF:	Ziemann	BRANCH CHIEF:
PROJECT MANAGER:		PROJECT MANAGER:
<input checked="" type="checkbox"/> LIC. ASST.:	Diggs (Lm-7)	LIC. ASST.:

INTERNAL DISTRIBUTION

<input checked="" type="checkbox"/> REG FILE	SYSTEMS SAFETY	PLANT SYSTEMS	SITE SAFETY &
<input checked="" type="checkbox"/> NRC PDR	HEINEMAN	<input checked="" type="checkbox"/> TEDESCO	ENVIRO ANALYSIS
<input checked="" type="checkbox"/> I & E (2)	SCHROEDER	BENAROYA	<input checked="" type="checkbox"/> DENTON & MULLER
OELD		LAINAS	
GOSSICK & STAFF	ENGINEERING	IPPOLITO	ENVIRO TECH.
<input checked="" type="checkbox"/> MIPC (4)	<input checked="" type="checkbox"/> MACCARRY	KIRKWOOD	ERNST
CASE	KNIGHT		BALLARD
<input checked="" type="checkbox"/> HANAUER	SIHWEIL	OPERATING REACTORS	SPANGLER
HARLESS	PAWLICKI	<input checked="" type="checkbox"/> STELLO	
PROJECT MANAGEMENT	REACTOR SAFETY	OPERATING TECH.	SITE TECH.
BOYD	<input checked="" type="checkbox"/> ROSS	<input checked="" type="checkbox"/> EISENHUT	GAMMILL
P. COLLINS	NOVAK	SHAO	STEPP
HOUSTON	ROSZTOCZY	BAER	HULMAN
PETERSON	CHECK	BUTLER	
MELTZ		GRIMES	SITE ANALYSIS
HELTEMES	AT & I		VOLLMER
SKOVHOLT	SALTZMAN		BUNCH
	RUTBERG		<input checked="" type="checkbox"/> J. COLLINS
			<input checked="" type="checkbox"/> KREGER

EXTERNAL DISTRIBUTION

<input checked="" type="checkbox"/> LPDR: Minneapolis, Minn.	NAT LAB:	BROOKHAVEN NAT LAB
<input checked="" type="checkbox"/> TIC:	REG. VIE	ULRIKSON(ORNL)
<input checked="" type="checkbox"/> NSIC:	LA PDR	
ASLB:	CONSULTANTS	
<input checked="" type="checkbox"/> ACRS/6 CYS HOLDING/SENT	: DIGGS.	

CONTROL NUMBER

8676

# NSP

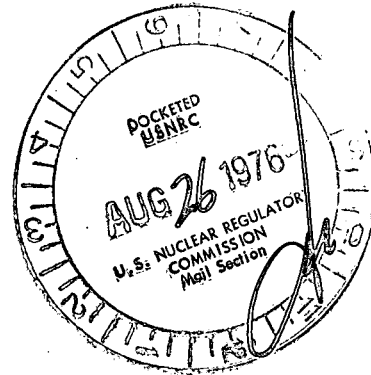
NORTHERN STATES POWER COMPANY

MINNEAPOLIS, MINNESOTA 55401

REGULATORY DOCKET FILE COPY

August 23, 1976

Mr J G Keppler, Director, Region III  
Office of Inspection & Enforcement  
U S Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, IL 60137



Dear Mr Keppler:

MONTICELLO NUCLEAR GENERATING PLANT  
Docket No. 50-263 License No. DPR-22

Effluent and Waste Disposal Semiannual Report  
January 1 - June 30, 1976

In accordance with the Monticello Technical Specifications, Appendix A to Operating License DPR-22, we are submitting two copies of the Effluent and Waste Disposal Semiannual Report covering the period January 1, 1976 through June 30, 1976.

Yours very truly,

L O Mayer, PE  
Manager, Nuclear Support Services

LOM/DMM/deb

cc: DIR, IE, USNRC (25)  
DIR, MIPC, USNRC (2)  
MPCA  
Attn: J W Ferman  
G Charnoff



Attachment

8676

RADIOACTIVE EFFLUENT RELEASES FOR 1/ 1/76 THROUGH 6/30/76

A. GASEOUS EFFLUENTS

1. NOBLE GAS RELEASES

A. TOTAL GROSS RADIOACTIVITY (CURIES)

JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1337.8	847.0	1097.4	918.6	1021.2	1011.3	6233.4

B. MAXIMUM GROSS RADIOACTIVITY RELEASE IN ANY ONE HOUR PERIOD (UCI/SEC)

JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1305.0	1900.0	815.0	1985.0	1520.0	520.0	1985.0

C. TOTAL GROSS RADIOACTIVITY BY NUCLIDE (CURIES)

	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
XE133	88.3	46.5	65.7	72.5	83.8	78.7	435.5
XE135	14.7	9.3	11.5	9.5	10.0	10.3	65.3
KR85M	1.7	1.0	1.4	1.1	1.1	1.2	7.6
KR88	6.0	3.5	4.8	3.9	3.8	4.1	26.2
KR87	10.4	6.9	8.9	6.9	7.9	8.3	49.3
XE138	305.8	190.6	239.2	191.5	217.8	209.4	1354.3
KR90	8.1	5.7	7.1	5.5	6.1	5.9	38.6
XE139	24.2	16.9	21.2	16.5	18.2	17.7	114.7
KR89	237.3	165.6	207.9	161.5	178.6	173.0	1123.8
XE137	309.4	215.6	270.9	210.4	232.6	225.4	1464.3
XE135M	17.8	12.4	15.5	12.1	13.4	12.9	84.2
KR83M	2.3	1.6	2.0	1.5	1.7	1.6	10.7
XE133M	0.4	0.2	0.3	0.3	0.4	0.3	2.0
XE131M	0.7	0.4	0.5	0.6	0.6	0.6	3.3
KR85	310.8	170.8	240.5	224.7	245.3	261.6	1453.7

D. PERCENT OF TECHNICAL SPECIFICATION LIMIT

JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1.6	1.2	1.4	1.0	0.9	1.0	1.2

2. IODINE RELEASES

A. TOTAL IODINE RADIOACTIVITY BY NUCLIDE (CURIES)

	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
I-131	5.84E-03	2.09E-02	6.01E-03	5.64E-03	1.14E-02	5.94E-03	5.58E-02
I-133	3.79E-02	6.22E-02	4.84E-02	3.27E-02	4.54E-02	3.27E-02	2.59E-01
I-135	1.07E-02	7.32E-02	1.67E-02	3.74E-03	2.42E-03	4.66E-03	1.11E-01

B. PERCENT OF TECHNICAL SPECIFICATION LIMIT

	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
	0.06	0.16	0.06	0.06	0.07	0.06	0.08

3. PARTICULATE RELEASES

A. GROSS RADIOACTIVITY (BETA AND GAMMA) (CURIES)

	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
	8.24E-03	1.09E-02	5.55E-03	4.15E-03	4.32E-03	3.91E-03	3.71E-02

B. GROSS ALPHA RADIOACTIVITY (CURIES)

	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
	4.27E-06	3.76E-06	3.71E-06	2.96E-06	2.53E-06	1.06E-05	2.78E-05

C. TOTAL GROSS RADIOACTIVITY RELEASED OF NUCLIDES WITH HALF LIFE GREATER THAN 8 DAYS (CURIES)

	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
	3.43E-03	4.55E-03	2.97E-03	4.89E-03	2.31E-03	2.22E-03	2.04E-02

D. PERCENT OF TECHNICAL SPECIFICATION LIMIT

	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
	0.34	0.67	0.60	1.32	0.49	0.42	0.64

B. LIQUID EFFLUENTS

NO LIQUID EFFLUENT RELEASES WERE MADE DURING THIS REPORTING PERIOD.

C. SOLID WASTE SHIPPED

1. TOTAL AMOUNT OF SOLID WASTE SHIPPED (CUBIC FEET)

JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2441.5	635.0	2017.0	0.0	690.0	775.0	6558.5

2. TOTAL ESTIMATED ACTIVITY (CURIES)

JAN	FEB	MAR	APR	MAY	JUN	TOTAL
164.35	344.20	1291.80	0.0	147.60	378.30	2326.25

3. DATES AND DISPOSITION

1/20/76	NUCLEAR ENGINEERING COMPANY, SHEFFIELD, ILLINOIS
1/22/76	NUCLEAR ENGINEERING COMPANY, SHEFFIELD, ILLINOIS
1/23/76	CHEM NUCLEAR INC., BARNWELL, SOUTH CAROLINA
1/27/76	CHEM NUCLEAR INC., BARNWELL, SOUTH CAROLINA
1/27/76	NUCLEAR ENGINEERING COMPANY, SHEFFIELD, ILLINOIS
1/28/76	NUCLEAR ENGINEERING COMPANY, MOORHEAD, KENTUCKY
1/30/76	NUCLEAR ENGINEERING COMPANY, SHEFFIELD, ILLINOIS
2/ 4/76	NUCLEAR ENGINEERING COMPANY, MOORHEAD, KENTUCKY
2/18/76	NUCLEAR ENGINEERING COMPANY, SHEFFIELD, ILLINOIS
2/23/76	NUCLEAR ENGINEERING COMPANY, SHEFFIELD, ILLINOIS
2/27/76	NUCLEAR ENGINEERING COMPANY, SHEFFIELD, ILLINOIS
3/ 1/76	NUCLEAR ENGINEERING COMPANY, SHEFFIELD, ILLINOIS
3/ 2/76	CHEM NUCLEAR INC., BARNWELL, SOUTH CAROLINA
3/ 3/76	NUCLEAR ENGINEERING COMPANY, SHEFFIELD, ILLINOIS
3/ 5/76	NUCLEAR ENGINEERING COMPANY, SHEFFIELD, ILLINOIS
3/ 9/76	CHEM NUCLEAR INC., BARNWELL, SOUTH CAROLINA
3/10/76	CHEM NUCLEAR INC., BARNWELL, SOUTH CAROLINA
3/11/76	CHEM NUCLEAR INC., BARNWELL, SOUTH CAROLINA
3/18/76	NUCLEAR ENGINEERING COMPANY, SHEFFIELD, ILLINOIS
5/20/76	CHEM NUCLEAR INC., BARNWELL, SOUTH CAROLINA
5/24/76	NUCLEAR ENGINEERING COMPANY, SHEFFIELD, ILLINOIS
5/26/76	CHEM NUCLEAR INC., BARNWELL, SOUTH CAROLINA
5/27/76	CHEM NUCLEAR INC., BARNWELL, SOUTH CAROLINA
6/ 3/76	CHEM NUCLEAR INC., BARNWELL, SOUTH CAROLINA
6/ 4/76	CHEM NUCLEAR INC., BARNWELL, SOUTH CAROLINA
6/ 4/76	CHEM NUCLEAR INC., BARNWELL, SOUTH CAROLINA
6/11/76	CHEM NUCLEAR INC., BARNWELL, SOUTH CAROLINA
6/14/76	CHEM NUCLEAR INC., BARNWELL, SOUTH CAROLINA

NOTES:

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QUANTITIES REPORTED AS PERCENT OF TECHNICAL SPECIFICATION  
LIMIT FOR GASEOUS EFFLUENTS HAVE BEEN CALCULATED AS THE  
PERCENTAGE OF THE MAXIMUM RELEASE RATES (10 CFR 20 LIMITS)  
ESTABLISHED BY NRC TECHNICAL SPECIFICATION CHANGES 12  
AND 19 WHICH BECAME EFFECTIVE ON OCTOBER 1, 1975.



NORTHERN STATES POWER COMPANY

MINNEAPOLIS, MINNESOTA 55401

August 23, 1976

✓ Mr J G Keppler, Director, Region III  
Office of Inspection & Enforcement  
U S Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, IL 60137

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MONTICELLO NUCLEAR GENERATING PLANT  
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Yours very truly,

L O Mayer, PE  
Manager, Nuclear Support Services

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cc: DIR, IE, USNRC (25)  
DIR, MIPC, USNRC (2)  
MPCA  
Attn: J W Ferman  
G Charnoff

Attachment

*See Rpts*

AUG 26 1976