

MONTICELLO NUCLEAR GENERATING PLANT  
NORTHERN STATES POWER COMPANY

Period: Jan - Jun 1982  
License No. DPR-22

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT

Supplemental Information

1. Regulatory Limits - Qtrly Levels Requiring Report to NRC

A. Noble Gases:

$$50*(QTV*NBARV+QTS*NBARS) = 1 \quad \text{AND}$$

$$25*(QTV*MBARV+QTS*MBARS) = 1$$

QTV = Noble Gas Release Rate from Bldg Vents (Ci/sec)

QTS = Noble Gas Release Rate from Plant Stack (Ci/sec)

NBARV = Vent Avg Gamma Air Dose Factor (Rad/yr per Ci/sec)

NBARS = Stack Avg Gamma Air Dose Factor (Rad/yr per Ci/sec)

MBARV = Vent Avg Beta Air Dose Factor (Rad/yr per Ci/sec)

MBARS = Stack Avg Beta Air Dose Factor (Rad/yr per Ci/sec)

B. Iodines and Particulates:

$$50*(3.7E05*QV+2.5E04*QS) = 1$$

QV = Building Vent Release Rate of Iodines and Particulates  
with Half-Lives Greater than 8 Days (Ci/sec)

QS = Plant Stack Release Rate of Iodines and Particulates  
with Half-Lives Greater than 8 Days (Ci/sec)

C. Liquid Effluents:

Concentration - 10CFR20, App B, Table II, Col 2,  
and notes thereto

Total Quantity - 2.5 Ci/Quarter

2. Average Dose Factors for Noble Gases  
(Rem/yr per Ci/sec and Rad/yr per Ci/sec):

|                   | Vent Releases |          | Stack Releases |          |
|-------------------|---------------|----------|----------------|----------|
|                   | 1ST Qtr       | 2ND Qtr  | 1ST Qtr        | 2ND Qtr  |
| KBAR (Body Gamma) | 4.95E 00      | 5.81E 00 | 1.19E 00       | 1.36E 00 |
| LBAR (Skin Beta)  | 4.04E 01      | 4.66E 01 | 1.34E 00       | 1.55E 00 |
| MBAR (Air Beta)   | 4.31E 01      | 4.91E 01 | 1.46E 00       | 1.65E 00 |
| NBAR (Air Gamma)  | 5.22E 00      | 6.14E 00 | 1.24E 00       | 1.41E 00 |

3. Average Energy:

(Nct Applicable)

8503040006 820630  
PDR ADOCK 05000263  
R PDR

FE25  
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Supplemental Information (continued)

4. Measurements and Approximations of Total Radioactivity:

A. Noble Gases:

Continuous gross activity monitors in Reactor Building Vent and plant stack exhaust streams. Weekly isotopic analysis of steam jet air ejector stream. Monthly analysis of storage tank contents.

B. Iodines in Gaseous Effluent:

Continuous monitoring with charcoal cartridges in Reactor Building vent and plant stack exhaust streams with weekly analysis.

C. Particulates in Gaseous Effluent:

Continuous monitoring with particulate filters in Reactor Building vent and plant stack exhaust streams with weekly analysis.

D. Tritium in Gaseous Effluent:

Continuous monitoring with silica gel cartridges in Reactor Building vent and plant stack exhaust streams with biweekly analysis.

E. Liquid Effluents:

Tank sample analyzed prior to each planned release and continuous monitoring of gross activity during planned release.

5. Batch Releases:

A. Liquid:

|  |          |        |
|--|----------|--------|
| 1. Number of Batch Releases                | 1        |        |
| 2. Total Time Period For Batch Releases    | 4.50E 02 | Min    |
| 3. Maximum Time Period for a Batch Release | 4.50E 02 | Min    |
| 4. Average Time Period for a Batch Release | 4.50E 02 | Min    |
| 5. Minimum Time Period for a Batch Release | 4.50E 02 | Min    |
| 6. Average River Flow During Releases      | 1.65E 04 | Cf/sec |

B. Gaseous:

|  |    |     |
|--|----|-----|
| 1. Number of Batch Releases                | 0  |     |
| 2. Total Time Period for Batch Releases    | NA | Min |
| 3. Maximum Time Period for a Batch Release | NA | Min |
| 4. Average Time Period for a Batch Release | NA | Min |
| 5. Minimum Time Period for a Batch Release | NA | Min |

6. Abnormal Releases:

A. Liquid:

|                            |          |    |
|----------------------------|----------|----|
| 1. Number of Releases      | 1        |    |
| 2. Total Activity Released | 2.76E-05 | Ci |

B. Gaseous:

|                            |     |    |
|----------------------------|-----|----|
| 1. Number of Releases      | 0   |    |
| 2. Total Activity Released | 0.0 | Ci |

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Table 1A Gaseous Effluents - Summation of all Releases

|  | Units   | 1st Qtr  | 2nd Qtr  | Pcnt Est<br>Error |
|--|---------|----------|----------|-------------------|
| -----  |         |          |          |                   |
| <b>A. Noble Gases:</b>   |         |          |          |                   |
| 1. Total Release:  |         |          |          |                   |
| A. Elevated Release  | Ci      | 2.57E 03 | 1.51E 03 |                   |
| B. Building Vent Release   | Ci      | 1.21E 03 | 6.35E 02 |                   |
| C. Total   | Ci      | 3.77E 03 | 2.15E 03 | 5.00E 01          |
| 2. Average Release Rate:   |         |          |          |                   |
| A. Elevated Release  | uCi/sec | 3.30E 02 | 1.92E 02 |                   |
| B. Building Vent Release   | uCi/sec | 1.55E 02 | 8.08E 01 |                   |
| C. Total   | uCi/sec | 4.85E 02 | 2.73E 02 | 5.00E 01          |
| 3. Percent Tech Spec Qtrly Reporting Level   |         | 1.79E 01 | 1.07E 01 |                   |
| <b>B. Iodines:</b>   |         |          |          |                   |
| 1. Total I-131:  |         |          |          |                   |
| A. Elevated Release  | Ci      | 3.63E-03 | 6.61E-03 |                   |
| B. Building Vent Release   | Ci      | 1.27E-03 | 2.30E-03 |                   |
| C. Total   | Ci      | 4.90E-03 | 8.91E-03 | 5.00E 01          |
| 2. Average I-131 Release Rate:   |         |          |          |                   |
| A. Elevated Release  | uCi/sec | 4.67E-04 | 8.41E-04 |                   |
| B. Building Vent Release   | uCi/sec | 1.63E-04 | 2.92E-04 |                   |
| C. Total   | uCi/sec | 6.30E-04 | 1.13E-03 | 5.00E 01          |
| <b>C. Long Lived Particulates and Gross Alpha Releases:</b>                        |         |          |          |                   |
| 1. Total Particulates:   |         |          |          |                   |
| A. Elevated Release  | Ci      | 1.81E-03 | 1.30E-03 |                   |
| B. Building Vent Release   | Ci      | 2.06E-03 | 3.12E-03 |                   |
| C. Total   | Ci      | 3.87E-03 | 4.42E-03 | 5.00E 01          |
| 2. Average Release Rate:   |         |          |          |                   |
| A. Elevated Release  | uCi/sec | 2.33E-04 | 1.66E-04 |                   |
| B. Building Vent Release   | uCi/sec | 2.65E-04 | 3.97E-04 |                   |
| C. Total   | uCi/sec | 4.98E-04 | 5.63E-04 | 5.00E 01          |
| 3. Percent Tech Spec Qtrly Reporting Level for Long-Lived Iodines and Particulates |         | 8.78E-01 | 1.40E 00 |                   |

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Table 1A Gaseous Effluents - Summation of All Releases (Continued)

|                               | Units   | 1st Qtr  | 2nd Qtr  | Pcnt Est<br>Error |
|-------------------------------|---------|----------|----------|-------------------|
| -----                         |         |          |          |                   |
| 4. Gross Alpha Radioactivity: |         |          |          |                   |
| A. Elevated Release           | Ci      | 7.21E-07 | 1.28E-06 |                   |
| B. Building Vent Release      | Ci      | 7.95E-06 | 4.42E-05 |                   |
| C. Total                      | Ci      | 8.67E-06 | 4.55E-05 | 1.00E 02          |
| D. Tritium:                   |         |          |          |                   |
| 1. Total Release:             |         |          |          |                   |
| A. Elevated Release           | Ci      | 2.97E 00 | 1.78E 00 |                   |
| B. Building Vent Release      | Ci      | 1.61E 01 | 2.28E 01 |                   |
| C. Total                      | CI      | 1.91E 01 | 2.46E 01 | 5.00E 01          |
| 2. Average Release Rate:      |         |          |          |                   |
| A. Elevated Release           | uCi/sec | 3.82E-01 | 2.27E-01 |                   |
| B. Building Vent Release      | uCi/sec | 2.07E 00 | 2.90E 00 |                   |
| C. Total                      | uCi/sec | 2.46E 00 | 3.13E 00 | 5.00E 01          |

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Table 1B Gaseous Effluents - Elevated Release

| Nuclides Released | Units | Continuous Mode |          | Batch Mode |         |
|-------------------|-------|-----------------|----------|------------|---------|
|                   |       | 1st Qtr         | 2nd Qtr  | 1st Qtr    | 2nd Qtr |
| 1. Noble Gases:   |       |                 |          |            |         |
| Xe133             | Ci    | 5.23E 02        | 2.21E 02 | 0.0        | 0.0     |
| Xe135             | Ci    | 2.41E 01        | 1.51E 01 | 0.0        | 0.0     |
| Kr85M             | Ci    | 4.76E 00        | 3.72E 00 | 0.0        | 0.0     |
| Kr88              | Ci    | 1.44E 01        | 1.04E 01 | 0.0        | 0.0     |
| Kr87              | Ci    | 2.66E 01        | 1.85E 01 | 0.0        | 0.0     |
| Xe138             | Ci    | 5.03E 02        | 3.36E 02 | 0.0        | 0.0     |
| Kr90              | Ci    | 1.67E 01        | 1.16E 01 | 0.0        | 0.0     |
| Xe139             | Ci    | 4.98E 01        | 3.45E 01 | 0.0        | 0.0     |
| Kr89              | Ci    | 4.91E 02        | 3.41E 02 | 0.0        | 0.0     |
| Xe137             | Ci    | 6.40E 02        | 4.44E 02 | 0.0        | 0.0     |
| Xe135M            | Ci    | 3.74E 01        | 2.59E 01 | 0.0        | 0.0     |
| Kr83M             | Ci    | 4.95E 00        | 3.43E 00 | 0.0        | 0.0     |
| Xe133M            | Ci    | 2.28E 00        | 5.18E-01 | 0.0        | 0.0     |
| Xe131M            | Ci    | 3.15E 00        | 1.66E 00 | 0.0        | 0.0     |
| Kr85              | Ci    | 2.26E 02        | 4.52E 01 | 0.0        | 0.0     |
| Total for Period  | Ci    | 2.57E 03        | 1.51E 03 | 0.0        | 0.0     |
| 2. Iodines:       |       |                 |          |            |         |
| I-131             | Ci    | 3.63E-03        | 6.61E-03 | 0.0        | 0.0     |
| I-133             | Ci    | 1.41E-02        | 1.82E-02 | 0.0        | 0.0     |
| I-135             | Ci    | 1.52E-02        | 1.38E-02 | 0.0        | 0.0     |
| Total             | Ci    | 3.29E-02        | 3.87E-02 | 0.0        | 0.0     |

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Table 1B Gaseous Effluents - Elevated Release (Continued)

| Nuclides Released | Units | Continuous Mode |          | Batch Mode |         |
|-------------------|-------|-----------------|----------|------------|---------|
|                   |       | 1st Qtr         | 2nd Qtr  | 1st Qtr    | 2nd Qtr |
| 3. Particulates:  |       |                 |          |            |         |
| Ce 144            | Ci    | 4.55E-06        | 2.14E-06 | 0.0        | 0.0     |
| Ce 141            | Ci    | 3.83E-07        | 1.79E-06 | 0.0        | 0.0     |
| Ba 140            | Ci    | 1.47E-03        | 7.91E-04 | 0.0        | 0.0     |
| Cs 137            | Ci    | 1.23E-05        | 8.58E-06 | 0.0        | 0.0     |
| Cs 134            | Ci    | 2.45E-07        | 0.0      | 0.0        | 0.0     |
| Ru 103            | Ci    | 2.72E-08        | 0.0      | 0.0        | 0.0     |
| Nb 95             | Ci    | 4.98E-07        | 0.0      | 0.0        | 0.0     |
| Sr 90             | Ci    | 1.27E-05        | 4.44E-06 | 0.0        | 0.0     |
| Sr 89             | Ci    | 3.01E-04        | 4.90E-04 | 0.0        | 0.0     |
| Zn 65             | Ci    | 2.52E-06        | 9.56E-07 | 0.0        | 0.0     |
| Co 60             | Ci    | 3.11E-06        | 2.33E-06 | 0.0        | 0.0     |
| Mn 54             | Ci    | 1.09E-06        | 1.87E-06 | 0.0        | 0.0     |
| Cr 51             | Ci    | 3.62E-06        | 0.0      | 0.0        | 0.0     |
| Total             | Ci    | 1.81E-03        | 1.30E-03 | 0.0        | 0.0     |

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Table 1C Gaseous Effluents - Building Vent Release

| Nuclides Released      | Units | Continuous Mode |          | Batch Mode |         |
|------------------------|-------|-----------------|----------|------------|---------|
|                        |       | 1st Qtr         | 2nd Qtr  | 1st Qtr    | 2nd Qtr |
| <b>1. Noble Gases:</b> |       |                 |          |            |         |
| Xe133                  | Ci    | 2.43E 00        | 8.51E-01 | 0.0        | 0.0     |
| Xe135                  | Ci    | 1.45E 01        | 7.73E 00 | 0.0        | 0.0     |
| Kr85M                  | Ci    | 2.91E 00        | 1.80E 00 | 0.0        | 0.0     |
| Kr88                   | Ci    | 8.74E 00        | 5.17E 00 | 0.0        | 0.0     |
| Kr87                   | Ci    | 1.57E 01        | 9.34E 00 | 0.0        | 0.0     |
| Xe138                  | Ci    | 2.79E 02        | 1.71E 02 | 0.0        | 0.0     |
| Kr90                   | Ci    | 9.44E 00        | 5.87E 00 | 0.0        | 0.0     |
| Xe139                  | Ci    | 2.81E 01        | 1.75E 01 | 0.0        | 0.0     |
| Kr89                   | Ci    | 2.77E 02        | 1.74E 02 | 0.0        | 0.0     |
| Xe137                  | Ci    | 3.62E 02        | 2.27E 02 | 0.0        | 0.0     |
| Xe135M                 | Ci    | 2.13E 01        | 1.32E 01 | 0.0        | 0.0     |
| Kr83M                  | Ci    | 2.89E 00        | 1.76E 00 | 0.0        | 0.0     |
| Xe133M                 | Ci    | 6.62E-02        | 3.63E-02 | 0.0        | 0.0     |
| Xe131M                 | Ci    | 3.03E-01        | 1.90E-03 | 0.0        | 0.0     |
| Kr85                   | Ci    | 1.82E 02        | 1.89E-02 | 0.0        | 0.0     |
| Total for Period       | Ci    | 1.21E 03        | 6.35E 02 | 0.0        | 0.0     |
| <b>2. Iodines:</b>     |       |                 |          |            |         |
| I-131                  | Ci    | 1.27E-03        | 2.30E-03 | 0.0        | 0.0     |
| I-133                  | Ci    | 1.03E-02        | 1.27E-02 | 0.0        | 0.0     |
| I-135                  | Ci    | 5.98E-03        | 0.0      | 0.0        | 0.0     |
| Total                  | Ci    | 1.75E-02        | 1.50E-02 | 0.0        | 0.0     |

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Table 1C Gaseous Effluents - Building Vent Releases (Continued)

| Nuclides Released | Units | Continuous Mode |          | Batch Mode |         |
|-------------------|-------|-----------------|----------|------------|---------|
|                   |       | 1st Qtr         | 2nd Qtr  | 1st Qtr    | 2nd Qtr |
| 3. Particulates:  |       |                 |          |            |         |
| Nd147             | Ci    | 0.0             | 2.65E-06 | 0.0        | 0.0     |
| Ce144             | Ci    | 0.0             | 1.73E-06 | 0.0        | 0.0     |
| Ce141             | Ci    | 2.80E-07        | 1.84E-06 | 0.0        | 0.0     |
| Ba140             | Ci    | 1.03E-03        | 1.97E-03 | 0.0        | 0.0     |
| Cs137             | Ci    | 9.88E-05        | 4.00E-04 | 0.0        | 0.0     |
| Cs134             | Ci    | 3.94E-06        | 1.64E-05 | 0.0        | 0.0     |
| Ru103             | Ci    | 2.95E-07        | 0.0      | 0.0        | 0.0     |
| Nb95              | Ci    | 1.59E-06        | 0.0      | 0.0        | 0.0     |
| Sr90              | Ci    | 1.40E-05        | 6.18E-05 | 0.0        | 0.0     |
| Sr89              | Ci    | 1.13E-04        | 2.81E-04 | 0.0        | 0.0     |
| Zn65              | Ci    | 2.09E-04        | 5.74E-05 | 0.0        | 0.0     |
| Co60              | Ci    | 3.64E-04        | 2.00E-04 | 0.0        | 0.0     |
| Fe59              | Ci    | 8.45E-06        | 1.32E-05 | 0.0        | 0.0     |
| Co58              | Ci    | 4.38E-07        | 0.0      | 0.0        | 0.0     |
| Mn54              | Ci    | 6.37E-05        | 3.82E-05 | 0.0        | 0.0     |
| Cr51              | Ci    | 1.52E-04        | 7.74E-05 | 0.0        | 0.0     |
| Total             | Ci    | 2.06E-03        | 3.12E-03 | 0.0        | 0.0     |



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Table 2A Liquid Effluents - Summation of All Releases

|  | Units  | 1st Qtr | 2nd Qtr  | Pcnt Est<br>Error |
|--|--------|---------|----------|-------------------|
| <b>A. Fission and Activation Products:</b>         |        |         |          |                   |
| 1. Total Release<br>(Except H-3, Gases, and Alpha) | Ci     | 0.0     | 5.80E-07 | 5.00E 01          |
| 2. Avg Diluted Concentration                       | uCi/ml | 0.0     | 5.29E-09 |                   |
| 3. Percent Qtrly Tech Spec Reporting<br>Level      |        | 0.0     | 2.32E-05 |                   |
| <b>B. Tritium:</b>                                 |        |         |          |                   |
| 1. Total Release                                   | Ci     | 0.0     | 2.70E-05 | 2.50E 01          |
| 2. Avg Diluted Concentration                       | uCi/ml | 0.0     | 2.46E-07 |                   |
| 3. Percent Qtrly Tech Spec Reporting<br>Level      |        | NA      | NA       |                   |
| <b>C. Dissolved and Entrained Gases:</b>           |        |         |          |                   |
| 1. Total Release                                   | Ci     | 0.0     | 0.0      | 0.0               |
| 2. Avg Diluted Concentration                       | uCi/ml | 0.0     | 0.0      |                   |
| 3. Percent Qtrly Tech Spec Reporting<br>Level      |        | NA      | NA       |                   |
| <b>D. Gross Alpha Radioactivity:</b>               |        |         |          |                   |
| 1. Total Release                                   | Ci     | 0.0     | 0.0      | 0.0               |
| <b>E. Volume of Waste Released</b>                 |        |         |          |                   |
|  | Liters | 0.0     | 1.35E 03 | 2.50E 01          |
| <b>F. Volume of Dilution Water Used</b>            |        |         |          |                   |
|  | Liters | 0.0     | 1.08E 05 | 5.00E 01          |

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Table 2B Liquid Effluents

| Nuclides Released | Units | Continuous Mode |         | Batch Mode |          |
|-------------------|-------|-----------------|---------|------------|----------|
|                   |       | 1st Qtr         | 2nd Qtr | 1st Qtr    | 2nd Qtr  |
| Co60              | Ci    | 0.0             | 0.0     | 0.0        | 5.80E-07 |

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Table 3 Solid Waste and Irradiated Fuel Shipments

A. Solid Waste Shipped Offsite For Burial or Disposal:

1. Type of Waste:

|  | Units          | Total                | Pcnt Est<br>Error |
|--|----------------|----------------------|-------------------|
|  | -----          | -----                | -----             |
| A. Spent Resins, Filter Sludges,<br>Evaporator Bottoms, Ect. | Cu Meter<br>Ci | 6.74E 01<br>4.05E 02 | 5.00E 01          |
| B. Dry Compressible Waste,<br>Contaminated Equip, Ect.       | Cu Meter<br>Ci | 2.08E 02<br>3.54E 02 | 5.00E 01          |
| C. Irradiated Components,<br>Control Rods, Ect.              | Cu Meter<br>Ci | 0.0<br>0.0           | 0.0               |
| D. Other (described below):<br><br>None                      |                |                      |                   |

2. Estimate of Major Nuclide Composition by Type of Waste:

| TYPE | Nuclide | Percent  |
|------|---------|----------|
| ---- | -----   | -----    |
| A    | Ba140   | 2.59E 00 |
|      | Cs137   | 3.96E 01 |
|      | Cs134   | 4.12E 00 |
|      | Sr90    | 4.95E-02 |
|      | Zn65    | 1.82E 01 |
|      | Co60    | 2.52E 01 |
|      | Co58    | 2.01E-01 |
|      | Mn54    | 2.21E 00 |
|      | Cr51    | 1.71E 00 |
|      | La140   | 2.47E 00 |
|      | I 131   | 2.53E 00 |
| B    | Ce141   | 1.47E 00 |
|      | Cs137   | 1.93E 01 |
|      | Cs134   | 1.92E 00 |
|      | Sb126   | 7.91E-04 |
|      | Sr90    | 2.16E-01 |
|      | Zn65    | 1.49E 01 |
|      | Co60    | 5.21E 01 |
|      | Co58    | 1.46E-02 |
|      | Mn54    | 1.48E 00 |
|      | Cr51    | 6.86E 00 |
|      | I 131   | 1.72E 00 |

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Table 3 Solid Waste and Irradiated Fuel Shipments (Continued)

3. Solid Waste Disposition:

| Number of Shipments | Mode  | Destination                 |
|---------------------|-------|-----------------------------|
| -----               | ----- | -----                       |
| 4                   | Truck | Chem-Nuc Inc., Barnwell, SC |
| 17                  | Truck | US Ecology, Richland, WA    |

Irradiated Fuel Shipments:

| Number of Shipments | Mode  | Destination |
|---------------------|-------|-------------|
| -----               | ----- | -----       |
| None                |       |             |



Northern States Power Company

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August 30, 1982

Regional Administrator, Region III  
U S Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, IL 60137

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

Effluent and Waste Disposal Semiannual Report  
for January 1, 1982 through June 30, 1982

In accordance with the Monticello Technical Specifications, Appendix A to Operating License DPR-22, we are submitting one copy of the Effluent and Waste Disposal Semiannual Report covering the first half of 1982.

  
David Musolf  
Manager of Nuclear Support Services

DMM/bd

cc: Document Control Desk, USNRC (1)  
G Charnoff  
MPCA  
Attn: J W Ferman  
NRC Resident Inspector

DESIGNATED ORIGINAL

Certified By



IE 25  
/o