

SEMI-ANNUAL EFFLUENT REPORT

January - June

1983

Public Service Company

Fort St. Vrain  
Nuclear Generating Station

July 1983

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## 1.0 Summary

This report summarizes the radiological effluent released from the Fort St. Vrain Nuclear Generating Station for the period January through June, 1983. In addition, Table 3.1 furnishes a general summary of the primary plant systems under radiological surveillance, and Table 4.1 summarizes the solid waste removed from the site during the aforementioned time period. This information is provided pursuant to the requirements of 10 CFR 50.36 a (a) (2).

Tritium was the radionuclide of principal interest released via the liquid pathway during the first half of 1983. A total of approximately 346 curies of tritium was released to the unrestricted area via batch and continuous releases. This tritium resulted from removal of moisture from the Primary Coolant System.

Xenon 133 was the predominant radioisotope released from the station via the gaseous waste discharge pathway. Approximately 43 curies were released in the first half of 1983. Approximately 2 curies of Krypton 85 and 1 curie of tritium were released via gas waste discharges.

For the first time in the history of Fort St. Vrain, low level radioactive waste was removed from the station. Approximately 850 cubic feet of waste, consisting of irradiated graphite reflector blocks and reserve shutdown material, was removed from site. The waste contained approximately 18 curies of activity.

TABLE 1.1 - RADIOACTIVE LIQUID EFFLUENT RELEASES FOR 1 QUARTER, 1983

	UNITS	JAN	FEB (1)	MAR (1)	QUARTERLY TOTAL
1. Gross Beta Radioactivity					
a) Total Release	Curies	9.05E-05	2.24E-03	2.67E-03	5.01E-03
b) Avg. Conc. before Dilution	mCi/ml	2.75E-07	4.94E-06	5.76E-06	3.50E-06 *
Avg Conc. Released	μCi/ml				
c) after Dilution	above bkgd	2.04E-09	1.08E-08	1.08E-08	7.54E-09 *
2. Tritium					
a) Total Release	Curies	2.09E-01	6.40E+01	4.88E+01	1.13E+02
b) Avg. Conc. before Dilution	mCi/ml	1.71E-03	1.81E-01	1.75E-01	1.11E-01 *
Avg Conc. Released	μCi/ml				
c) after Dilution	above bkgd	8.74E-06	3.42E-04	3.20E-04	2.09E-04 *
3. Dissolved Noble Gases					
a) Total Release	Curies	2.57E-06	9.09E-05	4.68E-05	1.40E-04
b) Avg. Conc. before Dilution	mCi/ml	1.93E-07	1.95E-06	4.48E-07	9.08E-07 *
Avg Conc. Released	μCi/ml				
c) after Dilution	above bkgd	8.32E-10	2.26E-09	8.34E-10	1.31E-09 *
4. Gross Alpha Radioactivity					
a) Total Release	Curies	5.29E-06	1.11E-05	1.38E-05	3.02E-05
5. Total Volume of Liquid Released before Dilution					
	Liters	3.08E+05	6.67E+05	9.35E+05	1.91E+06
6. Total Volume of Liquid Used for Dilution					
	Liters	2.32E+07	1.85E+08	2.33E+08	4.42E+08
7. Estimated Total Radioactivity Released by Radioisotope above Background					
Nuclide	MPCw (μCi/ml)	Curies			
3H	3.00E-03		2.09E-01	6.40E+01	4.88E+01
60Co	5.00E-05		2.62E-07	NSA	NSA
133Xe	2.00E-04		2.57E-06	9.09E-05	4.68E-05
35S	6.00E-05		NSA	6.57E-04	NSA

\*Represents a "weighted" average.

$$4.7E-05 = 4.7 \times 10^{-5}$$

$$5.2E+03 = 5.2 \times 10^{+3}$$

NSA means no significant activity.

(1) Includes activity released from the liquid waste system via the reactor building sump.

TABLE 1.3: LIQUID EFFLUENT RELEASED VIA THE TURBINE BUILDING SUMP AND THE REACTOR BUILDING SUMP (CONTINUOUS RELEASE)

1 QUARTER 1983

TURBINE BUILDING SUMP

	MONTH	JAN	FEB	MAR	QUARTERLY TOTAL
VOLUME	LITERS	7.34E+06	7.91E+06	1.25E+07	2.78E+07
TRITIUM	AVERAGE $\mu\text{Ci/ml}$	5.70E-05	3.77E-05	2.84E-05	4.15E-05*
	TOTAL CURIES	4.18E-01	2.98E-01	3.55E-01	1.15E+00
GROSS $\beta\gamma$	AVERAGE $\mu\text{Ci/ml}$	5.66E-08	7.06E-08	7.01E-08	6.55E-08*
	TOTAL CURIES	4.16E-04	5.58E-04	8.76E-04	1.82E-03
GROSS $\alpha$	AVERAGE $\mu\text{Ci/ml}$	1.56E-08	1.56E-08	1.52E-08	1.55E-08*
	TOTAL CURIES	1.15E-04	1.23E-04	1.90E-04	4.31E-04

REACTOR BUILDING SUMP

	MONTH	JAN	FEB (1)	MAR (1)	QUARTERLY TOTAL
VOLUME	LITERS	1.14E+06	7.97E+05	1.35E+06	3.29E+06
TRITIUM	AVERAGE $\mu\text{Ci/ml}$	3.62E-04	7.73E-02	5.18E-02	4.93E-02*
	TOTAL CURIES	(1) 3.57E-01	6.16E+01	6.99E+01	1.62E+02
GROSS $\beta\gamma$	AVERAGE $\mu\text{Ci/ml}$	1.62E-07	4.24E-06	6.81E-06	4.50E-06*
	TOTAL CURIES	1.84E-04	3.38E-03	9.19E-03	1.48E-02
GROSS $\alpha$	AVERAGE $\mu\text{Ci/ml}$	1.72E-08	1.73E-08	1.43E-08	1.60E-08*
	TOTAL CURIES	1.96E-05	1.38E-05	1.93E-05	5.26E-05

\* Represents "weighted" average

(1) Excluding activity resulting from liquid waste releases from the sump.

TABLE 2.1 - RADIOACTIVE GASEOUS EFFLUENT RELEASES FOR 1 QUARTER, 1983

		UNITS	JAN	FEB	MAR	QUARTERLY TOTAL	
1a.	Total Noble Gases	Curies	3.04E+00	2.26E+01	8.66E+00	3.43E+01	
1b.	Total Tritium	Curies	1.18E-01	2.45E-01	3.57E-01	7.21E-01	
1c.	Total Halogens	Curies	NSA	NSA	NSA	NSA	
1d.	Total Particulate Gross (β,γ) Activity RT-7325	Curies	6.49E-08	5.29E-08	7.72E-08	1.95E-07	
1e.	Total Particulate Gross (Alpha Activity RT-7325	Curies	1.28E-08	1.13E-08	1.58E-08	3.99E-08	
2.	Maximum Hourly Release Rate for Any One Hour Period	Ci/hr	1.67E-02	2.58E-01	3.21E-01	3.21E-01	
3.	Estimated Total Radioac- tivity Released by Nu- clide (MPCa)						
	Particulates	MPCa	Curies	NSA	NSA	NSA	
	Halogens	MPCa	Curies	NSA	NSA	NSA	
	Gases	MPCa	Curies				
	85Krm	1.00E-07		9.82E-02	1.72E-03	1.55E-02	1.15E-01
	87Kr	2.00E-08		1.10E-02	NSA	2.07E-03	1.31E-02
	88Kr	2.00E-08		8.21E-02	1.40E-03	8.03E-03	9.15E-02
	133Xe	3.00E-07		2.14E+00	2.14E+01	8.14E+00	3.17E+01
	133Xem	3.00E-07		7.63E-02	6.98E-02	7.78E-02	2.24E-01
	135Xe	1.00E-07		6.37E-01	1.85E-02	1.38E-01	7.93E-01
	3H	2.00E-07		1.13E-01	2.45E-01	3.57E-01	7.21E-01
	85Kr	3.00E-07		NSA	7.90E-01	1.81E-01	9.71E-01
	131Xem	4.00E-07		NSA	2.91E-01	9.57E-02	3.87E-01

4.7E-05 = 4.7 x 10<sup>-5</sup>

5.2E+03 = 5.2 x 10<sup>+3</sup>

NSA means no significant activity.



SYSTEM	ALPHA	BETA	TRITIUM	
FARM POND	1.49E-08	5.60E-08	4.23E-05	MAXIMUM
	1.49E-08	5.60E-08	4.23E-06	MINIMUM
	1.49E-08 ( 1)	5.60E-08 ( 1)	4.23E-06 ( 1)	AVERAGE
REACTOR BLDG. SUMP	4.96E-08	8.17E-05	3.06E-01	MAXIMUM
	9.53E-09	5.41E-08	3.83E-05	MINIMUM
	1.60E-08(221)	4.50E-06(221)	4.93E-02(221)	AVERAGE
TURBINE BLDG. SUMP	2.53E-08	8.77E-08	1.20E-04	MAXIMUM
	9.62E-09	5.02E-08	7.11E-06	MINIMUM
	1.55E-08 (34)	6.55E-08 (34)	4.15E-05 (34)	AVERAGE
COOLING TOWER B/D-DURING	4.01E-08	1.28E-07	7.36E-04	MAXIMUM
	9.81E-10	6.02E-09	6.69E-07	MINIMUM
	1.18E-08(102)	3.95E-08(102)	1.46E-04(102)	AVERAGE
COOLING TOWER B/D-AFTER	3.44E-08	9.72E-08	1.60E-04	MAXIMUM
	9.81E-10	6.36E-09	6.39E-07	MINIMUM
	1.30E-08 (33)	4.25E-08 (33)	1.43E-05 (33)	AVERAGE
COOLING TOWER B/D-WEEKLY	2.53E-08	9.33E-08	3.51E-04	MAXIMUM
	1.91E-09	7.98E-09	6.40E-07	MINIMUM
	1.34E-08 (13)	4.66E-08 (13)	6.62E-05 (13)	AVERAGE
SYSTEM 21, LOOP 1	2.20E-08	7.08E-08	1.58E-04	MAXIMUM
	9.83E-09	5.38E-08	6.69E-05	MINIMUM
	1.70E-08 ( 7)	6.43E-08 ( 7)	1.02E-04 ( 7)	AVERAGE
SYSTEM 21, Loop 2	2.38E-08	8.90E-08	3.18E-04	MAXIMUM
	9.62E-09	5.38E-08	8.49E-05	MINIMUM
	1.64E-08 ( 9)	6.69E-08 ( 9)	1.33E-04 ( 9)	AVERAGE
SYSTEM 31	2.53E-08	1.11E-06	4.54E-03	MAXIMUM
	9.64E-09	5.38E-08	1.61E-04	MINIMUM
	1.53E-08 (19)	1.41E-07 (19)	1.00E-03 (19)	AVERAGE

- NOTES: 1. All activities expressed in units of UCI/ML  
2. ( ) Represents the number of samples represented by the average value.

SYSTEM	ALPHA	BETA	TRITIUM	
SYSTEM 41				
	2.92E-08	6.21E-08	1.29E-06	MAXIMUM
	1.66E-08	5.39E-08	6.43E-07	MINIMUM
	2.17E-08 ( 3)	5.92E-08 ( 3)	8.67E-07 ( 3)	AVERAGE
SYSTEM 42				
	1.93E-08	6.21E-08	7.32E-07	MAXIMUM
	1.35E-08	5.22E-08	6.43E-07	MINIMUM
	1.65E-08 ( 3)	5.86E-08 ( 3)	6.77E-07 ( 3)	AVERAGE
SYSTEM 46, LOOP 1				
	2.20E-08	9.03E-08	1.66E-04	MAXIMUM
	9.62E-09	5.66E-08	7.87E-05	MINIMUM
	1.51E-08 (33)	6.74E-08 (33)	1.13E-04 (33)	AVERAGE
SYSTEM 46, LOOP 2				
	2.20E-08	9.17E-08	1.67E-04	MAXIMUM
	9.62E-09	5.66E-08	5.86E-05	MINIMUM
	1.54E-08 (33)	6.74E-08 (33)	1.22E-04 (33)	AVERAGE
SYSTEM 47, LOOP 1				
	2.53E-08	1.11E-06	4.54E-03	MAXIMUM
	9.64E-09	5.38E-08	1.61E-04	MINIMUM
	1.53E-08 (19)	1.41E-07 (19)	1.00E-03 (19)	AVERAGE
SYSTEM 47, LOOP 2				
	2.53E-08	2.02E-06	9.30E-03	MAXIMUM
	9.64E-09	5.38E-08	1.28E-04	MINIMUM
	1.43E-08 (29)	4.12E-07 (29)	3.44E-03 (29)	AVERAGE

- NOTES: 1. All activities expressed in units of UCI/ML  
 2. ( ) Represents the number of samples represented by the average value.

TABLE 1.1 - RADIOACTIVE LIQUID EFFLUENT RELEASES FOR 2nd QUARTER, 1983

	UNITS	APR	MAY	JUN	QUARTERLY TOTAL
1. Gross Beta Radioactivity					
a) Total Release	Curies	1.17E-02	2.68E-04	1.23E-04	1.21E-02
b) Avg. Conc. before Dilution	mCi/ml	6.46E-05	2.17E-06	2.61E-06	1.95E-05 *
Avg Conc. Released	μCi/ml				
c) after Dilution	above bkgd	4.81E-08	7.82E-09	8.63E-09	1.91E-08 *
2. Tritium					
a) Total Release	Curies	8.07E+01	2.68E+00	2.26E+00	8.57E+01
b) Avg. Conc. before Dilution	mCi/ml	9.71E-01	2.24E-02	4.92E-02	2.90E-01 *
Avg Conc. Released	μCi/ml				
c) after Dilution	above bkgd	5.72E-04	1.06E-04	1.72E-04	2.48E-04 *
3. Dissolved Noble Gases					
a) Total Release	Curies	2.10E-04	NSA	NSA	2.10E-04
b) Avg. Conc. before Dilution	mCi/ml	8.10E-06	NSA	NSA	8.10E-06 *
Avg Conc. Released	μCi/ml				
c) after Dilution	above bkgd	2.62E-09	NSA	NSA	2.62E-09 *
4. Gross Alpha Radioactivity					
a) Total Release	Curies	9.07E-06	3.10E-06	1.01E-06	1.32E-05
5. Total Volume of Liquid Released before Dilution					
	Liters	4.85E+05	1.72E+05	4.63E+04	7.03E+05
6. Total Volume of Liquid Used for Dilution					
	Liters	1.07E+08	3.08E+07	1.21E+07	1.50E+08
7. Estimated Total Radioactivity Released by Radioisotope above Background					
Nuclide	MPCw (μCi/ml)	Curies			
3H	3.00E-03		8.07E+01	2.68E+00	2.26E+00
133Xe	2.00E-04		2.10E-04	NSA	NSA
35S	6.00E-05		3.27E-02	3.22E-04	NSA
137Cs			5.38E-08	NSA	NSA
60Co	5.00E-05		5.22E-07	NSA	NSA

\*Represents a "weighted" average.

4.7E-05 = 4.7 x 10<sup>-5</sup>

5.2E+03 = 5.2 x 10<sup>+3</sup>

NSA means no significant activity.



TABLE 2.1 - RADIOACTIVE GASEOUS EFFLUENT RELEASES FOR 2nd QUARTER, 1983

		UNITS	APR	MAY	JUN	QUARTERLY TOTAL
1a. Total Noble Gases		Curies	1.11E+01	1.27E-02	1.64E+00	1.28E+01
1b. Total Tritium		Curies	3.71E-01	7.98E-02	1.03E-01	5.54E-01
1c. Total Halogens		Curies	NSA	NSA	NSA	NSA
1d. Total Particulate Gross (β,γ) Activity RT-/325		Curies	5.65E-08	6.31E-08	5.41E-08	1.74E-07
1e. Total Particulate Gross (Alpha Activity RT-7325		Curies	1.58E-08	1.86E-08	1.72E-08	5.16E-08
2. Maximum Hourly Release Rate for Any One Hour Period		Ci/hr	2.68E-01	1.20E-03	1.26E-02	2.68E-01
3. Estimated Total Radioac- tivity Released by Nu- clide (MPCa)						
Particulates	MPCa	Curies	NSA	NSA	NSA	NSA
Halogens	MPCa	Curies	NSA	NSA	NSA	NSA
Gases	MPCa	Curies				
3H	2.00E-07		3.71E-01	7.98E-02	1.03E-01	5.54E-01
85Kr	3.00E-07		1.00E+00	NSA	NSA	1.00E+00
131Xe	4.00E-07		2.63E-01	3.03E-03	NSA	2.66E-01
133Xe	3.00E-07		9.87E+00	6.02E-03	1.08E+00	1.10E+01
133Xe	3.00E-07		1.27E-02	NSA	9.44E-04	1.36E-02
85Krm	1.00E-07		NSA	2.35E-04	6.52E-02	6.54E-02
135Xe	1.00E-07		NSA	3.39E-03	4.15E-01	4.18E-01
87Kr	2.00E-08		NSA	NSA	9.06E-03	9.06E-03
88Kr	2.00E-08		NSA	NSA	6.49E-02	6.49E-02

4.7E-05 = 4.7 x 10<sup>-5</sup>

5.2E+03 = 5.2 x 10<sup>3</sup>

NSA means no significant activity.

SYSTEM	ALPHA	BETA	TRITIUM	
FARM POND	0.00E-01	0.00E-01	0.00E-01	MAXIMUM
	0.00E-01	0.00E-01	0.00E-01	MINIMUM
	0.00E-01 (00)	0.00E-01 (00)	0.00E-01 (00)	AVERAGE
REACTOR BLDG. SUMP	3.56E-08	3.07E-05	9.55E-02	MAXIMUM
	9.94E-09	6.65E-08	8.39E-06	MINIMUM
	1.82E-08(126)	2.18E-06(126)	6.98E-03(126)	AVERAGE
TURBINE BLDG. SUMP	2.84E-08	4.96E-07	1.86E-04	MAXIMUM
	1.00E-08	6.39E-08	2.84E-06	MINIMUM
	1.81E-08 (39)	8.92E-08 (39)	2.12E-05 (39)	AVERAGE
COOLING TOWER B/D-DURING	8.51E-09	1.06E-07	1.05E-03	MAXIMUM
	1.51E-09	7.02E-09	1.67E-06	MINIMUM
	3.91E-09 (35)	2.78E-08 (35)	3.35E-04 (35)	AVERAGE
COOLING TOWER B/D-AFTER	1.01E-08	2.29E-08	5.00E-05	MAXIMUM
	1.40E-09	6.73E-09	6.62E-07	MINIMUM
	3.46E-09 (29)	1.03E-08 (29)	3.81E-06 (29)	AVERAGE
COOLING TOWER B/D-WEEKLY	7.49E-09	2.39E-08	1.50E-04	MAXIMUM
	1.71E-09	7.46E-09	6.79E-07	MINIMUM
	3.40E-09 (13)	1.28E-08 (13)	2.03E-05 (13)	AVERAGE
SYSTEM 21, LOOP 1	2.65E-08	8.89E-08	4.67E-05	MAXIMUM
	1.42E-08	6.39E-08	1.32E-05	MINIMUM
	1.94E-08 ( 8)	7.84E-08 ( 8)	2.51E-05 ( 8)	AVERAGE
SYSTEM 21, Loop 2	2.65E-08	8.89E-08	8.91E-05	MAXIMUM
	1.42E-08	6.65E-08	1.27E-05	MINIMUM
	1.94E-08 ( 8)	7.74E-08 ( 8)	3.73E-05 ( 8)	AVERAGE
SYSTEM 31	2.61E-08	8.89E-08	3.88E-05	MAXIMUM
	1.00E-08	6.53E-08	1.03E-05	MINIMUM
	1.75E-08 (15)	7.57E-08 (15)	1.84E-05 (15)	AVERAGE

- NOTES: 1. All activities expressed in units of UCI/ML  
2. ( ) Represents the number of samples represented by the average value.

SYSTEM	ALPHA	BETA	TRITIUM	
SYSTEM 41				
	2.26E-08	8.85E-08	1.24E-06	MAXIMUM
	1.42E-08	6.64E-08	6.86E-07	MINIMUM
	1.90E-08 ( 3)	7.71E-08 ( 3)	8.85E-07 ( 3)	AVERAGE
SYSTEM 42				
	2.26E-08	8.85E-08	7.37E-07	MAXIMUM
	1.42E-08	6.39E-08	6.78E-07	MINIMUM
	1.90E-08 ( 3)	7.63E-08 ( 3)	7.01E-07 ( 3)	AVERAGE
SYSTEM 46, LOOP 1				
	2.84E-08	9.61E-08	1.37E-04	MAXIMUM
	9.94E-09	6.39E-08	6.33E-05	MINIMUM
	1.88E-08 (25)	7.36E-08 (25)	8.48E-05 (25)	AVERAGE
SYSTEM 46, LOOP 2				
	2.84E-08	8.89E-08	1.56E-04	MAXIMUM
	9.94E-09	6.39E-08	1.11E-04	MINIMUM
	1.90E-08 (25)	7.33E-08 (25)	1.30E-04 (25)	AVERAGE
SYSTEM 47, LOOP 1				
	3.04E-08	6.11E-07	4.64E-03	MAXIMUM
	9.96E-09	7.15E-08	3.20E-04	MINIMUM
	1.78E-08 (22)	1.83E-07 (22)	2.11E-03 (22)	AVERAGE
SYSTEM 47, LOOP 2				
	2.84E-08	1.61E-06	6.45E-03	MAXIMUM
	9.92E-09	7.21E-08	1.66E-04	MINIMUM
	1.88E-08 (16)	5.47E-07 (16)	3.29E-03 (16)	AVERAGE

- NOTES: 1. All activities expressed in units of UCI/ML  
 2. ( ) Represents the number of samples represented by the average value.

TABLE 4.1 - SOLID WASTE (LOW LEVEL) FOR 1983

		UNITS	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
Total Volume of Titanium From Hydrogen Getter									
1.	Shipped	ft <sup>3</sup>	0	0	0	0	0	0	0
Curies of Tritium									
2.	Item 1	ci	0	0	0	0	0	0	0
Total Volume of Wastes (Not Getters) Shipped For Offsite Disposal									
3.		ft <sup>3</sup>	315	525	0	0	3.4	0	843.4
Curies Involved in									
4.	Item 3	ci	7.67	110.49	0	0	0.27	0	118.43
5. Description		Shipping Date							
	Irradiated Graphite Reflector Elements	1-21-83	4,0456						
	Irradiated Graphite Reflector Elements	1-25-83	2,14354						
	Irradiated Graphite Reflector Elements	1-28-83	1,48313						
	Irradiated Graphite Reflector Elements	2-1-83		2,0714					
	Irradiated Graphite Reflector Elements	2-4-83		1,6967					
	Irradiated Graphite Reflector Elements	2-8-83		2,6717					
	Irradiated Graphite Reflector Elements	2-10-83		2,1044					
	Irradiated Graphite Reflector Elements	2-18-83		1,9460					
	Irradiated Graphite Spheres	5-19-83					0,2713		
6. Total Curies Involved In Offsite Shipments			7.67	110.49	0	0	0.27	0	118.43

NOTE: 1.5E+09 means  $1.5 \times 10^{+9}$

Similarly, 2.7E-07 means  $2.7 \times 10^{-7}$



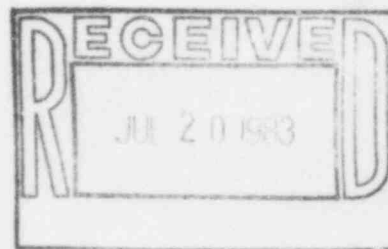
Public Service Company of Colorado

16805 WCR 19 1/2, Platteville, Colorado 80651-9298

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July 14, 1983  
Fort St. Vrain  
Unit #1  
P-83246

Mr. John T. Collins  
Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region IV  
611 Ryan Plaza Dr., Suite 1000  
Arlington, TX 76011



SUBJECT: Semi-Annual Effluent Release Report

Dear Mr. Collins:

Attached please find the Semi-Annual Effluent Release Report for the Fort St. Vrain Nuclear Generating Station.

This report covers the period January 1, 1983 through June 30, 1983, and is submitted pursuant to the requirements of 10CFR 50.36 a (a) (2).

Very truly yours,

*Frederick J. Borst*

Frederick J. Borst  
Radiation Protection Manager  
Fort St. Vrain Nuclear  
Generating Station

FJB/djc

4005  
|||



cc w/attachment:

Director Office of Inspection  
and Enforcement  
U.S. Nuclear Regulatory Commission  
c/o Distribution Services Branch, DDC, ADM  
Washington, DC 20555  
(6 Copies)

Director, Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
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Washington, DC 20555

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