NINE MILE POINT NUCLEAR STATION - UNIT 2

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

JANUARY - JUNE 1995

SUPPLEMENTAL INFORMATION

Facility: Nine Mile Point Unit #2 **Licensee:** Niagara Mohawk Power Corporation

1. TECHNICAL SPECIFICATION LIMITS

A) FISSION AND ACTIVATION GASES

1. The dose rate limit of noble gases released in gaseous effluents from the site to areas at or beyond the site boundary shall be less than or equal to 500 mrem/year to the whole body and less than or equal to 3000 mrem/year to the skin.

2. The air dose from noble gases released in gaseous effluents from the Nine Mile Point 2 Station to areas at or beyond the site boundary shall be limited during any calendar quarter to less than or equal to 5 mrad for gamma radiation and less than or equal to 10 mrad for beta radiation and during any calendar year to less than or equal to 10 mrad for gamma radiation and less than or equal to 20 mrad for beta radiation.

B&C) TRITIUM, IODINES AND PARTICULATES, HALF LIVES > 8 DAYS

1. The dose rate limit of Iodine-131, Iodine-133, Tritium and all radionuclides in particulate form with half-lives greater than eight days, released to the environs as part of the gaseous effluents from the site, shall be less than or equal to 1500 mrem/year to any organ.

2. The dose to a member of the public from Iodine-131, Iodine-133, Tritium and all radionuclides in particulate form with half lives greater than eight days in gaseous effluents released from the Nine Mile Point 2 Station to areas at or beyond the site boundary shall be limited during any calendar quarter to less than or equal to 7.5 mrem to any organ and, during any calendar year, to less than or equal to 15 mrem to any organ.

D) LIQUID EFFLUENTS

1. The concentration of radioactive material released in liquid effluents to unrestricted areas shall be limited to the concentrations specified in 10 CFR Part 20, Appendix B, Table II, Column 2 for radionuclides other than dissolved or entrained noble gases. For dissolved or entrained noble gases, the concentration shall be limited to 2E-04 microcurie/ml total activity.

2. The dose or dose commitment to a member of the public from radioactive materials in liquid effluents released from Nine Mile Point Unit 2 to unrestricted areas shall be limited during any calendar quarter to less than or equal to 1.5 mrem to the whole body and to less than or equal to 5 mrem to any organ, and during any calendar year to less than or equal to 3 mrem to the whole body and to less than or equal to 10 mrem to any organ.

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2. MEASUREMENTS AND APPROXIMATIONS OF TOTAL RADIOACTIVITY

Described below are the methods used to measure or approximate the total radioactivity and radionuclide composition in effluents.

A) FISSION AND ACTIVATION GASES

Noble gas effluent activity is determined by on-line gamma spectroscopic monitoring (intrinsic germanium crystal) of an isokinetic sample stream.

B) IODINES

Iodine effluent activity is determined by gamma spectroscopic analysis (at least weekly) of charcoal cartridges sampled from an isokinetic sample stream.

C) PARTICULATES

Activity released is determined by gamma spectroscopic analysis (at least weekly) of particulate filters sampled from an isokinetic sample stream.

D) TRITIUM

Tritium effluent activity is measured by liquid scintillation or gas proportional counting of monthly samples taken with an air sparging/water trap apparatus.

E) LIQUID EFFLUENTS

Isotopic contents of liquid effluents are determined by isotopic analysis of a representative sample of each batch.

F) SOLID EFFLUENTS

Isotopic contents of waste shipments are determined by gamma spectroscopy analyses and water content estimates of a representative sample of each batch. Scaling factors established from primary composite sample analyses conducted off-site are applied, where appropriate, to find estimated concentration of non-gamma emitters. For low activity trash shipments, curie content is estimated by dose rate measurement and application of appropriate scaling factors.

ATTACHMENT 1
Summary Data

Unit 1 ___ Unit 2 X Reporting Period January - June 1995

Liquid Effluents:

10CFR20, Appendix B, Table II, Column 2

Average MPC - uCi/ml (Qtr. 1) = 2.62E-03
Average MPC - uCi/ml (Qtr. 2) = 2.19E-03

Average Energy (Fission and Activation gases - Mev):

Qtr. 1	: $\bar{E}\gamma$ = 1.26E+00	$\bar{E}_\beta$ = 6.45E-01
Qtr. 2	: $\bar{E}\gamma$ = 1.22E+00	$\bar{E}_\beta$ = 6.05E-01

Liquid:

Number of batch releases	: 56
Total time period for batch releases (hrs)	: 1.84E+02
Maximum time period for a batch release (hrs)	: 3.42E+00
Average time period for a batch release (hrs)	: 3.28E+00
Minimum time period for a batch release (hrs)	: 2.95E+00
Total volume of water used to dilute the liquid effluent during release period (L)	: 1.05E+09
Total volume of water used to dilute the liquid effluent during reporting period (L)	: 2.52E+10

Gaseous (Emergency Condenser Vent): Not Applicable for Unit 2

Number of batch releases	: N/A
Total time period for batch releases (hrs)	: N/A
Maximum time period for a batch release (hrs)	: N/A
Average time period for a batch release (hrs)	: N/A
Minimum time period for a batch release (hrs)	: N/A

Gaseous (Primary Containment Purge):

Number of batch releases	: 13
Total time period for batch releases (hrs)	: 7.89E+01
Maximum time period for a batch release (hrs)	: 6.47E+00
Average time period for a batch release (hrs)	: 6.07E+00
Minimum time period for a batch release (hrs)	: 5.44E+00

ATTACHMENT 1
Summary Data

Unit 1 ___ Unit 2 X	Reporting Period January - June 1995
Abnormal Releases: There were no abnormal releases during the reporting period.	
A. Liquids:	
Number of releases 0	
Total activity released N/A Ci	
B. Gaseous:	
Number of releases 0	
Total activity released N/A Ci	

ATTACHMENT 2

Unit 1 ___ Unit 2 X Reporting Period January - June 1995

GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES, ELEVATED AND GROUND LEVEL

			1st QUARTER	2nd QUARTER	EST. TOTAL ERROR, %
A.	Fission & Activation gases				
	1. Total release	Ci	1.24E+01	1.34E+01	5.00E+01
	2. Average release rate	µCi/sec	1.71E+01	1.72E+00	
B.	Iodines				
	1. Total Iodine-131	Ci	7.59E-05	1.52E-04	3.00E+01
	2. Average release rate for period	µCi/sec	1.41E-04	3.17E-04	
C.	Particulates[2]				
	1. Particulates with half-lives >8 days	Ci	2.37E-05	1.22E-03	3.00E+01
	2. Average release rate for period				
	3. Gross alpha radioactivity	µCi/sec	3.03E-06	1.52E-04	
		Ci	2.52E-05	2.45E-05	2.50E+01
D.	Tritium[2]				
	1. Total release	Ci	4.94E+00	5.63E+00	5.00E+01
	2. Average release rate for period	µCi/sec	1.06E+00	8.91E-01	
E.	Percent of Tech. Spec. Limits				
	Fission and Activation Gases				
	Percent of Quarterly Gamma Air Dose Limit (5 mrad)	%	2.18E-02	3.10E-02	
	Percent of Quarterly Beta Air Dose Limit (10 mrad)	%	1.42E-03	1.78E-03	
	Percent of Annual Gamma Air Dose Limit to Date (10 mrad)	%	1.09E-02	2.64E-02	
	Percent of Annual Beta Air Dose Limit to Date (20 mrad)	%	7.12E-04	1.60E-03	
	Percent of Whole Body Dose Rate Limit (500 mrem/yr)	%	8.49E-04	1.19E-03	
	Percent of Skin Dose Rate Limit (3000 mrem/yr)	%	1.81E-04	2.51E-04	
	Tritium, Iodines, and Particulates[2] (with half-lives greater than 8 days)				
	Percent of Quarterly Dose Limit (7.5 mrem)	%	2.20E-02	4.96E-02	
	Percent of Annual Dose Limit (15 mrem)	%	1.11E-02	3.61E-02	
	Percent of Organ Dose Rate Limit (1500 mrem/yr)	%	4.51E-04	9.96E-04	

[1] Iron-55 and Strontium results for the second quarter were not received from the off-site vendor at the time of this report. These numbers will be provided in the next Semi-Annual Report.

[2] Includes Mo-99

ATTACHMENT 3

Unit 1 ___ Unit 2 X Reporting Period January - June 1995

GASEOUS EFFLUENTS - ELEVATED RELEASE

Nuclides Released		CONTINUOUS MODE 1st QUARTER	CONTINUOUS MODE 2nd QUARTER
1. Fission Gases[1]			
Argon-41	Ci	1.41E-01	1.94E-01
Krypton-85	Ci	**	**
Krypton-85m	Ci	**	**
Krypton-87	Ci	5.37E-01	3.34E-01
Krypton-88	Ci	1.22E+00	2.86E+00
Xenon-127	Ci	**	**
Xenon-133	Ci	**	**
Xenon-133m	Ci	**	**
Xenon-135	Ci	1.15E-01	8.51E-02
Xenon-135m	Ci	7.07E-01	7.77E-01
Xenon-137	Ci	5.44E+00	7.07E+00
Xenon-138	Ci	4.26E+00	4.75E+00
2. Iodines[1]			
Iodine-131	Ci	7.59E-05	1.52E-04
Iodine-133	Ci	9.58E-04	2.17E-03
Iodine-135	Ci	**	**
3. Particulates[1,2]			
Strontium-89	Ci	2.37E-05	2.46E-05
Strontium-90	Ci	**	3.84E-07
Cesium-134	Ci	**	**
Cesium-137	Ci	**	**
Cobalt-60	Ci	**	**
Cobalt-58	Ci	**	**
Manganese-54	Ci	**	**
Barium-Lanthanum-140	Ci	**	**
Antimony-125	Ci	**	**
Niobium-95	Ci	**	**
Cerium-141	Ci	**	**
Cerium-144	Ci	**	**
Iron-59	Ci	**	**
Cesium-136	Ci	**	**
Chromium-51	Ci	**	**
Zinc-65	Ci	**	6.80E-05
Iron-55	Ci	**	9.47E-06
Molybdenum-99	Ci	**	**
4. Tritium[2]	Ci	4.43E+00	5.39E+00

1 Concentrations less than the lower limit of detection of the counting system used are indicated with a double asterisk. A lower limit of detection of 1.00E-04 μCi/ml for required noble gases, 1.00E-11 μCi/ml for required particulates, 1.00E-12 μCi/ml for required iodines, and 1.00E-06 μCi/ml for Tritium, as required by Technical Specifications, has been verified.

2 Iron-55, Strontium and Tritium results for the second quarter were not received from the off-site vendor at the time of this report. These numbers include estimates. Actual numbers will be included in the next Semi-Annual Report.

ATTACHMENT 4

Unit 1 ___ Unit 2 X Reporting Period January - June 1995

GASEOUS EFFLUENTS - GROUND LEVEL RELEASES

			CONTINUOUS MODE		BATCH MODE There were no batch releases during the reporting period.	
			1st QUARTER	2nd QUARTER	1st QUARTER	2nd QUARTER
1.	Fission Gases[1]					
	Argon-41	Ci	**	**		
	Krypton-85	Ci	**	**		
	Krypton-85m	Ci	**	**		
	Krypton-87	Ci	**	**		
	Krypton-88	Ci	**	**		
	Xenon-133	Ci	**	**		
	Xenon-133m	Ci	**	**		
	Xenon-135	Ci	**	**		
	Xenon-135m	Ci	**	**		
	Xenon-137	Ci	**	**		
	Xenon-138	Ci	**	**		
	Xenon-127	Ci	**	**		
2.	Iodines[1]					
	Iodine-131	Ci	**	**		
	Iodine-133	Ci	**	**		
	Iodine-135	Ci	**	**		
3.	Particulates[1,2]					
	Strontium-89	Ci	**	6.26E-06		
	Strontium-90	Ci	**	8.10E-07		
	Cesium-134	Ci	**	**		
	Cesium-137	Ci	**	**		
	Cobalt-60	Ci	**	3.31E-04		
	Cobalt-58	Ci	**	**		
	Manganese-54	Ci	**	**		
	Barium-Lanthanum-140	Ci	**	**		
	Antimony-125	Ci	**	**		
	Niobium-95	Ci	**	**		
	Cerium-141	Ci	**	**		
	Cerium-144	Ci	**	**		
	Iron-59	Ci	**	**		
	Cesium-136	Ci	**	**		
	Chromium-51	Ci	**	**		
	Zinc-65	Ci	**	7.55E-04		
	Iron-55	Ci	**	1.99E-05		
	Molybdenum-99	Ci	**	**		
4.	Tritium	Ci	5.11E-01	2.39E-01		

1 Concentrations less than the lower limit of detection of the counting system used are indicated with a double asterisk. A lower limit of detection of 1.00E-04 μCi/ml for required noble gases, 1.00E-11 μCi/ml for required particulates, 1.00E-12 μCi/ml for required Iodines, and 1.00E-06 μCi/ml for Tritium, as required by Technical Specifications, has been verified.

2 Iron-55 and Strontium results for the second quarter were not received from the off-site vendor at the time of this report. These numbers include estimates, and actual numbers will be included in the next Semi-Annual Report.

Unit 1 __ Unit 2 X Reporting Period January - June 1995

LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

			1st QUARTER	2nd QUARTER	EST. TOTAL ERROR, %
A.	Fission & Activation Products[1]				
	1. Total release (not including Tritium, gases, alpha)	Ci	1.82E-02	7.30E-02	5.00E+01
	2. Average diluted concentration during reporting period	µCi/ml	1.42E-09	5.89E-09	
B.	Tritium[1]				
	1. Total release	Ci	4.83E+00	9.47E+00	5.00E+01
	2. Average diluted concentration during reporting period	µCi/ml	3.76E-07	7.64E-07	
C.	Dissolved and Entrained Gases[2]				
	1. Total release	Ci	1.15E-04	**	5.00E+01
	2. Average diluted concentration during reporting period	µCi/ml	8.93E-12	**	
D.	Gross Alpha Radioactivity[2]				
	1. Total release	Ci	**	1.20E-04	5.00E+01
E.	Volumes				
	1. Prior to dilution	Liters	1.79E+06	3.24E+06	5.00E+01
	2. Volume of dilution water used during release period	Liters	3.83E+08	6.71E+08	5.00E+01
	3. Volume of dilution water available during reporting period	Liters	1.28E+10	1.24E+10	5.00E+01
F.	Percent of Technical Specification Limits[1]				
	Percent of Quarterly Whole Body Dose Limit (1.5 mrem)	%	9.39E-01	2.70E+00	
	Percent of Quarterly Organ Dose Limit (5 mrem)	%	5.80E-01	1.67E+00	
	Percent of Annual Whole Body Dose Limit to Date (3 mrem)	%	4.69E-01	1.82E+00	
	Percent of Annual Organ Dose Limit to Date (10 mrem)	%	2.90E-01	1.12E+00	
	Percent of 10CFR20 Concentration Limit[3]	%	1.44E-02	6.73E-02	
	Percent of Dissolved or Entrained Noble Gas Limit (2.00E-04 µCi/ml)	%	4.47E-06	**	

1 Tritium, Iron-55, and Strontium results for the second quarter were not received from the off-site vendor at the itme of this report. These numbers include estimates. Actual numbers will be provided in the next Semi-Annual Report.

2 Concentrations less than the lower limit of detection of the counting system used are indicated with a double asterisk. A lower limit of detection of 5.00E-07 µCi/ml for required gamma emitting nuclides, 1.00E-05 µCi/ml for required dissolved and entrained noble gases and Tritium, 5.00E-08 µCi/ml for Sr-89/90, 1.00E-06 µCi/ml for Fe-55 and 1.00E-07 µCi/ml for gross alpha radioactivity, as required by Technical Specifications, has been verified.

3 The perecent of the 10CFR20 concentration limit is based on the average concentration during the quarter.

Unit 1 ___ Unit 2 X Reporting Period January - June 1995

LIQUID EFFLUENTS RELEASED

Nuclides Released		BATCH MODE 1st QUARTER	BATCH MODE 2nd QUARTER
Strontium-89	Ci	**	6.08E-05
Strontium-90	Ci	**	1.29E-05
Cesium-134	Ci	**	**
Cesium-137	Ci	**	**
Iodine-131	Ci	**	**
Cobalt-58	Ci	**	2.31E-04
Cobalt-60	Ci	2.62E-03	1.90E-02
Iron-59	Ci	**	9.34E-04
Zinc-65	Ci	1.32E-02	3.63E-02
Manganese-54	Ci	1.15E-03	8.28E-03
Chromium-51	Ci	9.48E-04	5.72E-03
Zirconium-Niobium-95	Ci	**	**
Molybdenum-99	Ci	**	**
Technetium-99m	Ci	**	**
Barium-Lanthanum-140	Ci	**	**
Cerium-141	Ci	**	**
Tungsten-187	Ci	**	**
Arsenic-76	Ci	**	**
Iodine-133	Ci	**	**
Iron-55	Ci	**	1.25E-03
Neptunium-239	Ci	**	**
Praseodymium-144	Ci	**	**
Iodine-135	Ci	**	**
Silver-110m	Ci	2.91E-04	1.22E-03
Dissolved or Entrained Gases	Ci	1.15E-04	**
Tritium	Ci	4.83E+00	9.47E+00

[1] Concentrations less than the lower limit of detection of the counting system used are indicated with a double asterisk. A lower limit of detection of 5.00E-07 μCi/ml for required gamma emitting nuclides, 1.00E-05 μCi/ml for required dissolved and entrained noble gases and Tritium, 5.00E-08 μCi/ml for Sr-89/90, 1.00E-06 μCi/ml for Fe-55 and 1.00E-07 μCi/ml for gross alpha radioactivity, as required by Technical Specifications, has been verified.

[2] Tritium, Iron-55, and Strontium results for the second quarter were not received from the off-site vendor at the itme of this report. These numbers include estimates. Actual numbers will be provided in the next Semi-Annual Report.

Unit 1 ___ Unit 2 X Reporting Period January - June 1995

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS: There were no shipments sent for burial.

A.1 TYPE	Volume (m^3) Class			Activity[1] (Ci) Class		
	A	B	C	A	B	C
1. Spent Resin[2]	0	0	0	0	0	0
Filter Sludge[3]	0	0	0	0	0	0
Concentrated Waste Evaporator Bottoms	0	0	0	0	0	0
Total	0	0	0	0	0	0
2. Dry Compressible Waste, Dry Non-Compressible Waste (Contaminated Equipment)[4]	0	0	0	0	0	0
3. Irradiated Components	0	0	0	0	0	0

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1 The estimated total error is 5.00E+01%.

2 There were 9 Unit 2 steel encased high integrity containers of waste class A bead resin placed in interim storage at Nine Mile Point during the reporting period. The total activity was 2.54E+02 curies and the volume was 5.12E+01m^3.

3 There were 2 Unit 2 steel encased high integrity containers of class A filters/filter sludge waste placed in interim storage at Nine Mile Point during the reporting period. The total activity was 7.65E+01 curies and the volume was 7.14E+00m^3.

4 There was 1 steel encased high integrity container of Class A DAW placed in interim storage at Nine Mile Point during the reporting period. The total activity was 1.31E+00 curies and the volume was 5.69E+00m^3.

Unit 1 ___ Unit 2 X Reporting Period January - June 1995

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A.1 TYPE	Container	Package	Solidification Agent
1. Spent Resin	N/A	N/A	N/A
Filter Sludge	N/A	N/A	N/A
Concentrated Waste	N/A	N/A	N/A
2. Dry Compressible Waste, Dry Non-Compressible Waste (Contaminated Equipment)	N/A	N/A	N/A
3. Irradiated Components	N/A	N/A	N/A

Unit 1 ___ Unit 2 _X_ Reporting Period January - June 1995

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A.2 ESTIMATE OF MAJOR NUCLIDE COMPOSITION (BY TYPE OF WASTE)

a. Spent Resins, Filter Sludges, Concentrated Waste: There were no shipments

Nuclide	Percent

b. Dry Compressible Waste, Dry Non-Compressible Waste (Contaminated Equipment): There were no shipments.

Nuclide	Percent

c. Irradiated Components: There were no shipments.

Nuclide	Percent

d. Other: There were no shipments.

Nuclide	Percent

Unit 1 ___ Unit 2 _X_ Reporting Period January - June 1995

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A.3. SOLID WASTE DISPOSITION
There were no shipments

Number of Shipments	Mode of Transportation	Destination
0	N/A	N/A

B. IRRADIATED FUEL SHIPMENTS (DISPOSITION): There were no shipments.

Number of Shipments	Mode of Transportation	Destination
0	N/A	N/A

Unit 1 ___ Unit 2 X Reporting Period January - June 1995

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

C. SOLID WASTE SHIPPED OFF-SITE TO VENDORS FOR PROCESSING AND SUBSEQUENT BURIAL

There were no shipments sent for burial; all shipments were returned to Nine Mile Point after volume reduction processing.

Below is a summary of Dry Active Waste that was shipped off-site for processing and burial by vendor facilities (i.e., ALARON, AMERICAN ECOLOGY RECYCLE CENTER, INC., and/or SCIENTIFIC ECOLOGY GROUP) during January - June 1995. These totals were reported separately from "10CFR61 Solid Waste Shipped for Burial" since (a) waste classification and burial was performed by the vendors, and (b) Technical Specification 6.9.1 requires reporting of "information for each class of solid waste (as defined by 10CFR61) shipped off-site during the reporting period." The information provided in this section, therefore, is in addition to that required by the Technical Specifications. The following data represents the actual shipments made from the off-site vendors of our non-compacted commingled trash that was processed prior to burial.

C.1. TYPE OF WASTE - noncompacted commingled trash shipped to Oak Ridge, TN for processing prior to burial at Barnwell, SC

Burial Volume (m^3)	Activity (Ci)	Est. Total Error, %
0	0	5.00E+01

C.2. ESTIMATE OF MAJOR NUCLIDE COMPOSITION

There were no shipments sent for burial.

Nuclide	Percent

C.3. SOLID WASTE DISPOSITION: **There were no shipments for burial; all shipments were returned to Nine Mile Point after volume reduction processing. 11 shipments to off-site processors were made.**

Number of Shipments	Mode of Transportation	Destination
0	N/A	N/A

Unit 1 ___ Unit 2 _X_ Reporting Period January - June 1995

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

D. SEWAGE WASTES SHIPPED TO A TREATMENT FACILITY FOR PROCESSING AND BURIAL

There were no shipments of sewage sludge with detectable quantities of plant-related nuclides from NMP to the treatment facility during the reporting period.

ATTACHMENT 7

Unit 1 ___ Unit 2 _X_ Reporting Period January - June 1995

SUMMARY OF CHANGES TO THE OFF-SITE DOSE CALCULATION MANUAL

There were no changes to the Unit 2 Off-site Dose Calculation Manual during the reporting period.

ATTACHMENT 8

Unit 1 ___ Unit 2 _X_ Reporting Period January - June 1995

SUMMARY OF CHANGES TO THE PROCESS CONTROL PROGRAM

There were no changes to the Unit 2 Process Control Program during the reporting period.

ATTACHMENT 9

Unit 1 ___ Unit 2 _X_ Reporting Period January - June 1995

SUMMARY OF INOPERABLE MONITORS

There were no inoperable monitors for a period greater than 30 days during the reporting period.

UPDATE TO THE PREVIOUS REPORTS

Unit 1 ___ Unit 2 X — Reporting Period July - December 1994

UPDATE OF RELEASE AND DOSE DATA FOR GASEOUS (ELEVATED AND GROUND LEVEL) AND LIQUID EFFLUENTS

Update of data using actual results from the off-site vendors for Strontium, Tritium, and Iron-55 for the fourth quarter 1994.

Nuclide[1]	GASEOUS 4th QUARTER Activity (Ci)	LIQUID 4th QUARTER Activity (Ci)
Sr-89	3.51E−05	**
Sr-90	**	**
H-3	8.34E+00	2.52E+00
Fe-55	**	**

			GASEOUS	LIQUID
Particulates				
	1. Particulates with half-lives >8 days	Ci	7.49E−04	1.10E−02
	2. Average release rate (gaseous) or diluted concentration (liquid) for reporting period	µCi/sec (gaseous) µCi/ml (liquid)	1.03E−04	**
Tritium				
	1. Total release	Ci	8.34E+00	2.52E+00
	2. Average release rate for period (gaseous) or diluted concentration (liquids) for the reporting period	µCi/sec (gaseous) µCi/ml (liquid)	1.15E+00	1.61E−07

Tritium, Iodines, and Particulates (with half-lives greater than 8 days)		GASEOUS	LIQUID
1. Percent of Quarterly[2] Dose Limit	%	1.93E−02 (Quarterly)	2.91E−01 (Quarterly)
2. Percent of Annual[2] Dose Limit to Date	%	2.65E−02 (Annual)	1.59E+00 (Annual)
3. Percent of Organ - Dose Rate Limit (Gaseous)(Quarterly) - Dose Limit (Liquid) (Annual & Quarterly)	%	4.19E−04 (Quarterly) N/A (Annual)	1.80E−01 (Quarterly) 9.01E−01 (Annual)
4. Percent of 10CFR20[3] Concentration Limit (Liquid)	%	N/A	6.48E−03
5. Percent of Dissolved or Entrained Noble Gas (Liquid)	%	N/A	**

[1] Concentrations less than the lower limit of detection, as required by Technical Specifications are indicated with a double asterisk.
[2] The dose is to the whole body for liquid effluents and to the maximally exposed organ for gaseous effluents.
[3] The percent of the 10CFR20 concentration limit is based on the average concentration during the release period.