

NIAGARA MOHAWK POWER CORPORATION

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NINE MILE POINT NUCLEAR STATION - UNIT 2

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

JANUARY - JUNE 1992

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 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, lodines and Particulates, half lives > 8 days:

- 1. The dose rate limit of lodine-131, lodine-133, Tritium and all radionuclides in particulate form with half-lives greater than eight days, released in gaseous effluents from the site to areas at or beyond the site boundary, 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 as part of 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 microcuries/ml total activity.





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- D. Liquid Effluents (Cont'd):
 - 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.
- 2. Measurements and Approximations of Total Radioactivity:

Described below are the normal 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) lodines:

lodine 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 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.

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ATTACHMENT 1 Summary Data

Unit 1 Unit 2 <u>X</u>	Reporting Period January - June 1992						
Liquid Effluents: Maximum Permissible Concent	ration - uCi/ml						
10CFR20, Appendix B, Table II, Column 2	10CFR20, Appendix B, Table II, Column 2						
Average MPC (Qtr. <u>1</u>) = <u>2.83E-03</u> Average MPC (Qtr. <u>2</u>) = <u>4.47E-03</u>							
Average Energy (Fission and Activation gases - N	Меv):						
Qtr. 1 : $\vec{E}_Y = \underline{9.94E-01}$ Qtr. 2 : $\vec{E}_Y = \underline{6.22E-01}$	$\vec{E}\beta = \frac{7.51E-01}{1.07E+00}$						
Liquid:							
Number of batch releases	: <u>53</u>						
Total time period for batch releases (hrs.)	: <u>1.85E+02</u>						
Maximum time period for a batch release (hrs.)	: <u>3.51E+00</u>						
Average time period for a batch release (hrs.)	: <u>3.48E+00</u>						
Minimum time period for a batch release (hrs.)	: <u>3.47E+00</u>						
Total volume of water used to dilute the liquid effluent during release period (L)	: 1.03E+09						
Total volume of water used to dilute the liquid effluent during reporting period (L)	: <u>2.26E+10</u>						
UNIT 1 (ONLY) Gaseous (Emergency Condenser Vent): NOT A	APPLICABLE FOR UNIT 2						
Number of batch releases	: <u>N/A.</u>						
Total time period for batch releases (hrs.)	: <u>N/A</u>						
Maximum time period for a batch release (hrs.)	: <u>N/A</u>						
Average time period for a batch release (hrs.)	: <u>N/A</u>						
Minimum time period for a batch release (hrs.)	: <u>N/A</u>						
Gaseous (Primary Containment Purge):							
Number of batch releases	: 2						
Total time period for batch releases (hrs.)	: <u>3.89E+01</u>						
Maximum time period for a batch release (hrs.)	: <u>2.69E+01</u>						
Average time period for a batch release (hrs.)	: <u>1.94E+01</u>						
Minimum time period for a batch release (hrs.)	: <u>1.20E+01</u>						



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ATTACHMENT 1 Summary Data

Page 2 of 2

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Unit 1 Unit 2 _X	Reporting Period January - June 1992
Abnormal Releases:	THERE WERE NO ABNORMAL RELEASES DURING THE REPORTING PERIOD
A. Liquids -	
Number of releases	<u>N/A</u>
Total activity released	<u>N/A</u> Ci
B. Gaseous -	
Number of releases	<u>N/A</u>
Total activity released	<u>N/A</u> Ci



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U	nit	1		Unit	2	<u>_X</u>
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Reporting Period January - June 1992

GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES ELEVATED AND GROUND LEVEL					
			<u>1*</u> QUARTER	2 nd QUARTER	EST. TOTAL ERROR,_%
A.	Fission & Activation gases ¹ 1. Total release 2. Average release rate	Ci uCi/sec.	<u>8.50E+00</u> <u>1.08E+00</u>	<u>7.12E+00</u> <u>9.13E-01</u>	5.00E+01
В.	<u>lodines</u> ¹ 1. Total iodine 2. Average release rate for period	Ci uCi/sec.	<u>4.14E-03</u> <u>5.27E-04</u>	<u>2.59E-05</u> <u>3.33E-06</u>	3.00E+01
c. 、	Particulates 1. Particulates with half-lives >8 days 2. Average release rate for period 4. Gross alpha radioactivity	Ci uCi/soc. Ci	<u>7.02E-03</u> <u>8.93E-04</u> <u>2.51E-05</u>	<u>2.25E-03</u> <u>2.88E-04</u> <u>1.32E-05</u>	3.00E+01 2.50E+01
D.	<u>Tritium</u> ¹ 1. Total release 2. Average release rate for period	Ci uCi/sec.	<u>3.88E+00</u> <u>4.94E-01</u>	<u>2.73E+00</u> <u>3.50E-01</u>	5.00E+01
Ε.	Percent of Tech. Spec. Limits Fission and Activation Gases ¹ Percent of Quarterly Gamma Air Dose Limit (5 mrem) Percent of Quarterly Beta Air Dose Limit (10 mrem) Percent of Annual Gamma Air Dose Limit to Date (10 mrem) Percent of Annual Beta Air Dose Limit to Date (20 mrem) Percent of Whole Body Dose Rate Limit (500 mrem/yr) Percent of Skin Dose Rate Limit (3000 mrem/yr) <u>Tritium, Iodines, and Particulates</u> (with half-lives greater than 8 days) Percent of Quarterly Dose Limit (7.5 mrem) Percent of Annual Dose Limit (15 mrem) Percent of Ocran Dose Rate Limit	% % % % %	<u>6.56E-02</u> <u>7.39E-04</u> <u>3.28E-02</u> <u>3.70E-04</u> <u>2.52E-03</u> <u>4.93E-04</u> <u>2.39E-02</u> <u>1.19E-02</u> 9.72E-04	5.06E-02 6.79E-04 5.81E-02 7.10E-04 1.95E-03 3.83E-04 <u>1.52E-02</u> 1.55E-02	
	Percent of Organ Dose Rate Limit (1500 mrem/yr)	%	<u>9.73E-04</u>	<u>1.19E-04</u>	

¹ Concentrations less than the lower limit of detection of 1.00E-04 uCi/ml for Noble Gases, 1.00E-11 uCi/ml for particulates, 1.00E-12 uCi/ml for lodines, and 1.00E-06 uCi/ml for Tritium as required by Technical Specifications are indicated with a double asterisk.





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Unit 1 Unit 2	<u>×</u>		Reporting Period	d January - June 1992
	GASEOUS EFFLUENTS - I	ELEVAT	ED RELEASE	
			CONTINUO	US MODE ³
	Nuclides Released		<u>1"</u> <u>OUARTER</u>	<u>2</u> ** OUARTER
1.	Fission Gases ¹ Argon-41 Krypton-85 Krypton-85m Krypton-87 Krypton-88 Xenon-127 Xenon-133 Xenon-135 Xenon-135 Xenon-137 Xenon-138	000000000000000000000000000000000000000	2.37E+00 1.77E-01 1.16E+00 1.24E-01 5.39E-01 2.33E+00 1.80E+00	4.70E-01 ••• 6.01E-01 1.18E-01 ••• 2.30E-01 6.40E-01 1.82E+00 3.24E+00
2.	<u>lodines</u> ¹ lodine-131 lodine-133 lodine-135	Ci [°] Ci Ci	<u>2.26E-04</u> <u>3.91E-03</u> <u>••</u>	<u>2.84E-06</u> 2.31E-05 ••
3.	Particulates ^{1,2} Strontium-89 Strontium-90 Cesium-134 Cesium-137 Cobalt-60 Cobalt-58 Manganese-54 Barium-Lanthanum-140 Antimony-125 Niobium-95 Cerium-141 Cerium-144 Iron-59 Cesium-136 Chromium-51 Zinc-65 Iron-55 Molybdenum-99	000000000000000000000000000000000000000	1.21E-05 3.48E-05 	1.54E-05 ••• 1.23E-05 ••• 1.26E-06 ••• ••• ••• ••• ••• ••• ••• •
4.	<u>Tritium</u>	Ci	<u>2.45E+00</u>	<u>2.16E+00</u>

¹ Concentrations less than the lower limit of detection of 1.00E-04 uCi/ml for Noble Gases, 1.00E-11 uCi/ml for particulates, 1.00E-12 uCi/ml for Iodines, and 1.00E-06 uCi/ml for Tritium as required by Technical Specifications are indicated with a double asterisk.

⁹ No batch mode release occurred during the reporting period.



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_____Unit 2 <u>_X__</u>

Unit 1

Reporting Period January - June 1992

	GASEOUS EFFLUENTS - GROUND LEVEL RELEASES					
	• •		CONTINUO	US MODE	BATCH THERE WERE I RELEASES DUI REPORTING PE	MODE NO BATCH RING THE ERIOD
Nuclide	es Released		<u>_1*</u> <u>QUARTER</u>	<u>2</u> <u>QUARTER</u>	<u>1*</u> <u>QUARTER</u>	<u>QUARTER</u>
1.	Fission_Gases ¹					
	Argon-41 Krypton-85 Krypton-85m Krypton-87 Krypton-88 Xenon-133 Xenon-135 Xenon-135m Xenon-137 Xenon-138 Xenon-127	000000000000	: : : : : : : : :	: : : : : : : : : :		,
2.	Iodines ¹					
	lodine-131 Iodine-133 Iodine-135	Ci Ci Ci	<u>2.36E-05</u> <u>2.60E-06</u> <u>••</u>	: : :		
3.	Particulatos ¹ Strontium-89 Strontium-90 Cesium-134 Cesium-137 Cobalt-60 Cobalt-58 Manganese-54 Barium-Lanthanum-140 Antimony-125 Niobium-95 Cerium-141 Cerium-144 Iron-59 Cesium-136 Chromium-51 Zinc-65 Iron-55 Molybdenum-99		** 1.12E-04 2.66E-06 3.45E-05 ** ** ** 6.11E-04 2.02E-04 5.83E-03	** 3.86E-04 1.51E-04 1.61E-04 ** ** 2.59E-05 5.60E-05 1.30E-03 1.05E-04 **		
4.	<u>Tritium</u>	Ci	<u>1.43E+00</u>	<u>5.70E-01</u>		

¹ Concentrations less than the lower limit of detection of 1.00E–04 uCi/ml for Noble Gases, 1.00E–11 uCi/ml for particulates, 1.00E–12 uCi/ml for Iodines, and 1.00E–06 uCi/ml for Tritium as required by Technical Specifications are indicated with a double asterisk.



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			<u>1"</u> <u>QUARTER</u>	<u>2⁻¹</u> <u>QUARTER</u>	EST. TOT ERROR,
Α.	Fission & Activation Products ¹ 1. Total release (not including tritium, gases, alpha)	Ci	•	<u>••</u>	5.00E+
	2. Average diluted concentration during reporting period	uCi/ml	<u></u>	<u>**</u>	
в.	<u>Tritium</u> 1. Total release 2. Average diluted concentration during reporting period	Ci uCi/ml	<u>1.19E+00</u> <u>1.27E-07</u>	<u>3.09E+00</u> <u>3.93E-07</u>	5.00E+
с.	Dissolved and Entrained Gases ¹ 1. Total release 2. Average diluted concentration during reporting period	Ci uCi/ml	<u>1.13E-04</u> <u>1.20E-11</u>	<u></u>	5.00E+
D,	<u>Gross Alpha Radioactivity</u> 1. Total release	Ci		<u>••</u>	5.00E+
Ε.	Volumes 1. Prior to dilution 2. Volume of dilution water used during release period	Liters Liters	<u>1.08E+06</u> <u>1.78E+08</u>	<u>3.69E+06</u> <u>8.53E+08</u>	5.00E+ 5.00E+
	3. Volume of dilution water available during reporting period	Liters	<u>9.40E+09</u>	<u>1.32E+10</u>	5.00E+
F.	Percent of Technical Specification				
	Percent of Quarterly Whole Body Dose Limit (1.5 mrem)	%	<u>1.68E-01</u>	<u>1.30E+00</u>	
	Percent of Quarterly Organ Dose Limit (5 mrem)	%	<u>1.11E-01</u>	<u>8.62E-01</u>	
	Percent of Annual Whole Body Dose Limit to Date (3 mrem)	%`	<u>8,40E-02</u>	<u>7,32E-01</u>	
	Percent of Annual Organ Dose Limit to Date (10 mrem)	%	<u>5.55E-02</u>	<u>4.87E-01</u>	
	Percent of 10CFR20 Concentration Limit	%	<u>4.47E-03</u>	<u>6.15E-03</u>	
	Percent of Dissolved or Entrained Noble Gas Limit (1.00E-5 uCi/ml)	%	<u>1.20E-04</u>		

Concentrations less than the lower limit of detection of 5.00E-07 uCi/ml for gamma emmitting nuclides, 1.00E-05 uCi/ml for dissolved and entrained noble gases and tritium, 5.00E-08 uCi/ml for Sr-89/90, 1.00E-06 uCi/ml for Fe-55 and 1.00E-07 uCi/ml for gross alpha radioactivity as required by Technical Specifications are indicated with a double asterisk.



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Unit 1 ____ Unit 2 _X__

Reporting Period January - June 1992

LIQUID EFFLUENTS RELEASED				
		ВАТСН	MODE	
Nuclides Released ¹		 QUARTER	QUARTER	
Strontium-89 Strontium-90 Cesium-134 Cesium-137 Iodine-131	Ci Ci Ci Ci Ci	**	**	
Cobalt-58 Cobalt-60 Iron-59 Zinc-65 Manganose-54 Chromium-51	0 0 0 0 0 0 0 0 0	<u>1.78E-04</u> <u>••</u> <u>1.65E-03</u> <u>9.18E-05</u> <u>••</u>	8.58E-05 1.54E-02 9.78E-05 2.20E-02 7.61E-03 4.32E-04	
Zirconium-Niobium-95 Molybdenum-99 Technetium-99m Barium-Lanthanum-140 Cerium-141	Ci Ci Ci Ci Ci	**		
Tungsten-187 Arsenic-76 Iodine-133 Iron-55 Neptunium-239 Praseodymium-144 Iodine-135 Silver-110m Dissolved or Entrained Gases Tritium	Ci Ci Ci Ci Ci Ci Ci Ci Ci	** ** ** ** ** 1.13E-04 1.19E+00	3.09E + 00	
¹ Concentrations less than the lower	limit of detection of	5.00E-07 uCi/ml for gama emmi	tting nuclides, 1.00E05	

uCi/ml for dissolved and entrained noble gases and tritium, 5.00E-07 uCi/ml for Sr-89/90, 1.00E-06 uCi/ml for Fe-55 and 1.00-07 uCi/ml for gross alpha radioactivity as required by Technical Specifications are indicated with a double asterisk.

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ATTACHMENT 6

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Uni	t 1 Unit 2 <u>X</u>	Reporting Period <u>January - June 1992</u>					
		SOLID WA	STE AND IRF		EL SHIPMENTS		
A.1	ТҮРЕ		<u>Volume</u> (m³)			<u>Activity</u> 1 (Ci)	
			<u>Class</u>			<u>Class</u>	
-		A	В	с	A	В	с
	Count Pasin			-			
	Spent resin	<u>3.98E+01</u>	<u>.</u>	<u>-</u>	<u>4.26E+02</u>	<u>-</u>	÷
	Filter Sludge	<u>:</u>	<u>.</u>	:	÷	<u>-</u>	<u>-</u>
	Concentrated Waste	<u>1.03E+01</u>	<u>•</u>	<u>-</u>	<u>5.23E+00</u>	<u>-</u>	<u>:</u>
	Total	<u>5.01E+01</u>	<u>+</u>	-	<u>4.73E+02</u>	<u>-</u>	<u>+</u>
2.	Dry Compressible Waste, Dry Non-Compressible						
	Waste (Contaminated Equipment) ²	<u>1.62E+01</u>	<u>•</u>	<u> </u>	<u>1.02E+01</u>	-	<u> </u>
	Total	<u>1.62E+01</u>	<u>+</u>	<u> </u>	<u>1.02E+01</u>	÷	<u>-</u>
		NO SHIPMENTS					·
3.	Irradiated Components Control Rods	<u>•</u>	<u>*</u>	:	<u>.</u>	<u> </u>	÷

² Since there were non-compressible tools and compressible trash combined in the waste shipments, the non-compressible and compressible waste categories were combined.

• THERE WERE NO SHIPMENTS DURING THE REPORTING PERIOD.



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ATTACHMENT 6

Page 2 of 6

Uni	t 1 Unit 2 <u>X</u>	Report	ing Period <u>Janu</u>	lary - June 1992			
	SOLID WASTE AND IRRADIATED FUEL SHIPMENTS						
A.1	TYPE Spent Resin	<u>Container</u> Steel Liner or HIC	Package Type A	Solidification <u>Agent</u> Cement or N/A if dewatered			
	Filter Sludge	•	•	•			
	Concentrated Waste	<u>Steel Liner</u>	Түре А	Cement			
2.	Dry Compressible Weste, Dry Non-Compressible Weste (Conteminated Equipment)	Steel Liner	Түре А	<u> </u>			
3.	Irradiated Components Control Rods	•	•	<u>N/A</u>			
*	THERE WERE NO SHIPMENTS DURING THE REPORTING PERIOD						





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Unit 1 Unit 2 _X	Reporting Period January - June 199
SOLID WASTE AND IRR	ADIATED FUEL SHIPMENTS
A.2 Estimate of Major Nuclide C	composition (by Type of Waste)
a. Spent Resins, Filter Sludges, Concentrated Waste	
Nuclide	Percent
Zn-65	6.00E+01
<u>Cr-51</u>	2,38E+01
<u>Co-60</u>	8,47E+00
Fe-55	2.65E+00
Mn-54	2.61E+00
Co-58	1.05E+00
Other	1.42E+00
b. Dry Compressible Waste, Dry Non-Compressible Waste	(Contaminated Equipment)
Nuclide	Percent
Zn-65	6.46E+01
Cr•51	1.24E+01
Co-60	1.02E+01
Ag-110m	4.80E+00
Mn-54	3.28E+00
Fe-55	2.40E+00
Other	2.32E+00
	<u> </u>
c. Irradiated Components, Control Rods THERE WERE I	NO SHIPMENTS
d. Other THERE WERE NO OTHER SHIPMENTS	





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	ATTACHMENT 6	Page 4 of 6
Unit 1 Unit 2 _X		Reporting Period <u>January - June 1992</u>
SOLIE	WASTE AND IRRADIATED FUEL SHI	PMENTS
A.3. Solid Waste Disposition		
Number of Shipments	Mode of Transportation	Destination
	Truck	Barnwell, SC
D IDDADIATED ELIEL SUIDMENTS (DIS	POSITION	
B. INNADIATED FOLE SHIFWENTS (DIS		
Number of Shipments	Mode of Transportation	Destination
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	ATTACHMENT 6			Page 5 of
Linit 1 Linit 2 X		Reporti	ng Period Janua	ry - June 1992
	SOLID WASTE AND IRRADIATED FU	el shipmen is		
C. SOLID WASTE SHIPPED	OFF-SITE TO VENDORS FOR PROCESSING	AND SUBSEQUE	NT BURIAL	
Below is a summary of Da (i.e., ALARON, QUADREX reported separately from classification and burial w "information for each class information provided in th following data represents trash that was processed	ry Active Waste that was shipped off-site f (, and/or SCIENTIFIC ECOLOGY GROUP) de "10CFR61 Solid Waste Shipped for Burial" vas performed by the vendors, and (b) Tech is of solid waste (as defined by 10CFR61) is section, therefore, is in addition to that the actual shipments made from the off-sit prior to burial.	or processing and uring <u>January - Jur</u> (i.e., Section A of nical Specification shipped off-site du required by the Teo te vendors of our n	burial by vendor 1992. These Table 3A) since 6.9.1 requires ra- ring the reporting chnical Specification-compacted c	facilities totals were (a) waste eporting of g period". The tions. The ommingled
C.1. <u>Type of Waste</u> - not to Oakridge, TN for	ncompacted commingled trash shipped processing prior to burial at Barnwell, SC	Burial Volumo (m³)	Activity (Ci)	Est. Total <u>Error, %</u>
		<u>1,78E+01</u>	<u>7.8E-01</u>	<u>5.00E+01</u>
Nuclide (1) Co-60 (2) Cs-137 (3) Zn-65 (4) Mn-54 (5) Cr-51 (6) Co-58 (7) Ag-110 (8) Fe-59 (9) Fe-55 10) Other	Percent $3.91E + 01$ $2.33E + 01$ $2.17E + 01$ $4.70E + 00$ $4.05E + 00$ $1.50E + 00$ $1.28E + 00$ $1.06E + 00$ $9.20E - 01$			
Number of Shipment	s <u>Mode of Transportatio</u> <u>Truck</u>	<u>n</u>	<u>Destinatio</u> Barnwell, S	<u>n</u> :C
18 ¹ The number of shipments	<u>Truck</u>	that was shipped f	<u>Barnwell, S</u> rom the offsite v	:C endor for



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Below is transferr release,	<u>SLUDGE SHIPPED TO</u> a summary of the sewa ed to a municipal sewa and therefore includes t	<u>A TREATMENT FACILI</u> age sludge which was r ge treatment facility, for he results from Unit 1 a	TY CENTER FOR PRO emoved from the site r subsequent drying a activities, also.	<u>CESSING AND BURIAL</u> sanitary treatment facility and nd disposal to a landfill. This is
D.1. <u>Tv</u>	<u>pe of waste</u> - sewage sludge	Burial Volume (L) 7.95E+03	Activity (Ci) 2.29E-07	
D.2. <u>Est</u>	imate of Major Nuclide	Composition		
<u>Nu</u> Co	<u>clide Percent</u> -60 1.00E+02			
D.3. <u>So</u>	lid Waste Disposition			
<u>Nu</u>	mber of Shipments	Mode of Transporta	tion <u>Destinatio</u>	<u>n</u>
	•	· ,	Landfill	
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ATTACHMENT 7

Unit 1 ____ Unit 2 X

Reporting Period January - June 1992

SUMMARY OF CHANGES TO THE OFF-SITE DOSE CALCULATION MANUAL

The Unit 2 ODCM Revision 6 was issued in June 1992. Copies of Revisions 5 and 6 are attached.

Sample locations have been changed or added to the environmental monitoring program due to a change in the land use census, except locations #30, 44, 52 and 53, which were typographical errors.

The land use census showed potential alternate sample locations that could be used since garden sample locations can change significantly from year to year. These locations include numbers 49, 60, 61, 62 and 63. In addition, milk sample location numbers 64, 65 and 66 were added to show optional milk sample locations that have been used in the past and that are, also, currently used. These locations are not Technical Specification locations.

Map Location	Old Collection Site (Env. Program No.)	Old Location	New Collection Site (Env. Program No.)	New Location
30	Phoenix, NY control	19.8 mi. @ 170° S	No change	19.8 mi. @ 163° S (typographical error)
49	Produce Location (1) (J. Parkhurst)	1.8 mi. @ 96° E	Produce Location (1) (Culeton) (NA)	1.7 mi. @ 96° E
44	Milk Location (50)	9.3 mi. @ 93° E	No change	8.2 mi. @ 93° E (typographical error)
52	Produce Location (3) (C. Narewski)	1.6 mi. @ 84° ESE	Produce Location (3) (C. Narewski) (NA)	No change, (typographical error)
53	Produce Location (4) (P. Parkhurst)	2.0 mi. @ 110° ESE	Produce Location (4) (P.Parkhurst) (NA)	2.1 mi. @ 110° ESE (typographical error)
60	N/A	N/A	Produce Location (13) (Flack) (NA)	15.6 mi. @ 225° SW
61	N/A	N/A	Produce Location (14) (Koeneke) (NA)	1.9 mi. @ 95* E
62	N/A	N/A	Produce Location (15) (Whaley) (NA)	1.7 mi. @ 136° SE
63	N/A	N/A	Produce Location (16) (Murray) (NA)	1.2 mi. @ 207° SSW
64	N/A	N/A	Milk Location (55)	9.0 mi. @ 95° E
65	N/A	N/A	Milk Location (60)	9.5 mi. @ 90° E
66	N/A	N/A	Milk Location (4)	7.8 mi. @ 113° ESE

The changes noted above do not reduce the accuracy or reliability of dose calculations or setpoint determinations. The changes noted above do not involve dose calculation or setpoint determinations. The changes more accurately show the Technical Specification and optional environmental sample locations.



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Unit 1 Unit 2 <u>X</u>
SUMMARY OF CHANGES
The Unit 2 Process Control Program (PCP) was rewr procedure rewrite program. Therefore, a new proce 3.7.1. In addition, the following changes were adde
Revision #
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Reporting Period January - June 1992

Change/Justification

The Unit 2 PCP

was revised to allow_Radwaste **Operations** to de-water the contents of the waste sludge tank via the RDS-1000

system.

tank,

The Unit 2 PCP was revised to include inputs from the Advanced Liquid Processing System (ALPS) to the waste sludge

The Unit 2 PCP was revised to allow Radwaste **Operations to** process charcoal.

S TO THE PROCESS CONTROL PROGRAM

itten to comply with the site procedures writers guide and the dure number has been issued of GAP-RMP-02, Revision 0 from AP-:be

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The above changes were approved by the Site Operations Review Committee (SORC) and do not affect or impact the safety of radwaste operations.

These changes were done to improve and/or reflect current radwaste operations.





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