



CONNECTICUT YANKEE ATOMIC POWER COMPANY

BERLIN, CONNECTICUT

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June 19, 1986

Docket No. 50-213
B12114

Dr. Thomas E. Murley, Regional Administrator
Region I
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

- References:
- (1) J. F. Opeka letter to T. E. Murley, dated August 30, 1984.
 - (2) J. F. Opeka letter to T. E. Murley, dated March 1, 1985.
 - (3) J. F. Opeka letter to T. E. Murley, dated August 30, 1985.
 - (4) J. F. Opeka letter to T. E. Murley, dated February 28, 1986.

Gentlemen:

Haddam Neck Plant
Semiannual Radioactive Effluent Release Reports

References (1) through (4) submitted to the Staff the Semiannual Radioactive Effluents Release Reports for 1984 and 1985. In these reports Fe-55 activity in solid waste shipments was not included in the estimates of major nuclide composition.

The attached corrected tables with Fe-55 included are being sent to you, and all copyholders of these reports, to update and complete your files. We trust this omission has not caused any inconvenience.

Very truly yours,

CONNECTICUT YANKEE ATOMIC POWER COMPANY

J. F. Opeka
J. F. Opeka
Senior Vice President

E. J. Mroczka
By: E. J. Mroczka
Vice President

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A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (NOT IRRADIATED FUEL)

1. TYPE OF WASTE	UNIT	6-MONTH PERIOD	EST. TOTAL ERROR %
a. Spent resins, filter sludges, evaporator bottom, etc.	m ³ C1	1.151 E+1 1.45 E+2	± 1.0 E+01
b. Dry compressible waste, contaminated equip., etc.	m ³ C1	7.322 E+1 1.543 E+0	± 1.0 E+01
c. Irradiated components	N/A	N/A	N/A

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

1/1/84 - 6/30/84

A). Ca-134 2.28 E+1
 Ca-137 4.02 E+1
 Co-58 4.32 E-1
 Co-60 2.77 E+0
 Mn-54 1.92 E+0
 H-3 2.56 E+1
 C-14 1.80 E-2
 Tc-99 4.45 E-4
 I-129 8.09 E-5
 Ni-63 1.06 E+0
 Fe-55 4.64 E+0
 Sr-90 1.77 E-1
 Pu-241 3.44 E-1

B). Cs-134 1.05 E+1
 Cs-137 1.81 E+1
 Co-58 1.98 E-1
 Co-60 1.64 E+0
 Mn-54 8.82 E-1
 H-3 6.56 E+1
 C-14 7.78 E-2
 Tc-99 2.78 E-2
 I-129 3.70 E-2
 Ni-63 2.91 E-1
 Fe-55 2.05 E+0
 Sr-90 2.22 E-1
 Pu-241 3.64 E-1

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

7/1/84-12/31/84

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (NOT IRRADIATED FUEL)

1. TYPE OF WASTE	UNIT	6-MONTH PERIOD	EST. TOTAL ERROR %
a. Spent resins, filter sludges, evaporator bottom, etc.	m ³	7.371 E+1	± 1.0 E+01
	C1	5.792 E+2	
b. Dry compressible Waste, Contaminated equip., etc.	m ³	2.691 E+2	± 1.0 E+01
	C1	1.075 E+1	
c. Irradiated components	N/A	N/A	N/A

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

7/1/84 - 12/31/84

A). Co-58	2.87 E+1	B). Co-58	2.07 E+1
Co-60	9.01 E+0	Co-60	5.88 E+0
Cs-134	9.12 E+0	Mn-54	5.17 E+0
Cs-137	9.27 E+0	Cs-134	1.97 E+1
Cs-136	4.54 E-1	Cs-137	2.12 E+1
Mn-54	8.35 E+0	Cr-51	2.52 E+0
Cr-51	6.79 E+0	H-3	1.49 E+1
I-131	1.82 E+0	C-14	2.03 E-1
H-3	5.30 E+0	Tc-99	3.18 E-2
C-14	3.37 E-2	I-129	4.24 E-2
Tc-99	1.13 E-4	Ni-63	7.66 E-1
I-129	1.85 E-5	Fe-55	7.66 E+0
Ni-63	1.99 E+0	Sr-90	2.54 E-1
Fe-55	1.85 E+1	Pu-241	9.57 E-1
Sr-90	4.08 E-2	Cm-242	4.08 E-2
Pu-241	6.46 E-1		
Cm-242	1.29 E-2		

SOLID WASTE AND IRRADIATED FUEL EQUIPMENTS

1/1/85-6/30/85

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (NOT IRRADIATED FUEL)

1. TYPE OF WASTE	UNIT	6-MONTH PERIOD	EST. TOTAL ERROR %
a. Spent resins, filter sludges, evaporator bottom, etc.	m ³	3.42 E ⁺⁰	± 1.0 E+01
	Ci	3.96 E ⁺¹	
b. Dry compressible Waste, Contaminated equip., etc.	m ³	3.956 E ⁺¹	± 1.0 E+01
	Ci	1.41 E ⁺¹	
c. Irradiated components	N/A	N/A	N/A

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

a. Co-60	21.21	b. Co60	14.07
Co58	21.93	Co58	24.5
Mn54	6.24	Cs134	6.6
Cs134	0.33	Cs134	16.3
Cs137	0.89	Mn54	5.7
Fe55	49.49	Fe55	32.83

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A. SOLID WASTE SHIPPED OFFSITE FOR SERIAL OR DISPOSAL (NOT IRRADIATED FUEL)

1. TYPE OF WASTE	UNIT	6-MONTH PERIOD	EST. TOTAL ERROR %
a. Spent resins, filter sludges, evaporator bottom, etc.	m ³	4.07 E+1	± 1.0 E+01
	C1	2.12 E+2	
b. Dry compressible Waste, Contaminated equip., etc.	m ³	8.98 E+1	± 1.0 E+01
	C1	1.04 E+1	
c. Irradiated components	N/A	N/A	N/A

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

a. Co58	8.21	b. Cs134	1.55
Co60	25.11	Cs137	4.12
Cs134	1.07	Co58	8.72
Cs137	2.16	Co60	24.27
Mn54	3.45	Mn54	4.73
Ce144	1.41	Fe55	56.63
Fe55	58.59		