

TABLE 3
Entergy Nuclear Vermont Yankee
Effluent and Waste Disposal Annual Report
First and Second Quarters for 2005
Solid Waste and Irradiated Fuel Shipments

A.. Solid Waste Shipped Off-Site for Burial or Disposal (not irradiated fuel)

1. Type of Waste

Shipped from VY for Burial	Unit	1st & 2nd Quarters	Est. Total Error %
a. Spent resins, filter sludges, etc.	m3	0.0	+/- 2.50 E+01
	Cl	0.0	+/- 2.50 E+01
b. Dry Compressable waste, equipment, etc.	m3	0.0	+/- 2.50 E+01
	Cl	0.0	+/- 2.50 E+01
c. Irradiated components, control rods, etc.	m3		+/- 2.50 E+01
	Cl		+/- 2.50 E+01

Shipped from VY to Processor	Unit	1st & 2nd Quarters	Est. Total Error %
a. Spent resins, filter sludges, etc.	m3	15.9	+/- 2.50 E+01
	Cl	88.9	+/- 2.50 E+01
b. Dry Compressable waste, equipment, etc.	m3	29.7	+/- 2.50 E+01
	Cl	5.2	+/- 2.50 E+01
c. Irradiated components, control rods, etc.	m3		+/- 2.50 E+01
	Cl		+/- 2.50 E+01

Shipped from Processor(s) for Burial	Unit	1st & 2nd Quarters	Est. Total Error %
a. Spent resins, filter sludges, etc.	m3	3.5	+/- 2.50 E+01
	Cl	93.1	+/- 2.50 E+01
b. Dry Compressable waste, equipment, etc.	m3	0.0	+/- 2.50 E+01
	Cl	0.0	+/- 2.50 E+01
c. Irradiated components, control rods, etc.	m3		+/- 2.50 E+01
	Cl		+/- 2.50 E+01

2. Estimate of Major Nuclide Composition (By Type of Waste)

a. spent resins filter sludges		b. Dry Compactable waste, equipment	
Isotope	Percent (1)	Isotope	Percent
Zn-65	33.83%	Fe-55	65.12%
Co-60	21.05%	Co-60	17.51%
Cs-137	13.59%	Zn-65	4.94%
Fe-55	10.86%	Mn-54	4.16%
Ni-63	9.72%	Ce-144	3.27%
Mn-54	4.60%	Cs-137	2.18%
Sb-122	3.83%		
Cs-134	1.43%		

(1) includes only those nuclides that are greater than 1% of the total activity

3. Disposition of Solid Waste Shipments (1st & 2nd Quarters)

No. of Shipments	From VY	From Processor	Mode	To Processor	To Burial
0	X		truck		Duratek -Barnwell SC
1	X		truck	Duratek-Oak Ridge TN	
4	X		truck	Studsvik-Erwin, TN	
1	X		truck	RACE-Memphis, TN	
1		Duratek & RACE	truck		Envirocare, Clive UT
1		Studsvik-Erwin, TN	truck		Envirocare, Clive UT
8		Studsvik-Erwin, TN	truck		Duratek -Barnwell SC

B. Irradiated Fuel Shipments (Disposition): None

C. Additional Data (1st & 2nd Quarters)

Supplemental Information	VY to processor	VY to Burial	Processors to Burial
Class of Solid Waste Shipped	AU, B	none	AU, B, C
Type of Containers Used	STC, Type A	none	STC, Type B
Solidification Agent or Absorbent Used	none	none	none

Completed By: _____

Reviewed By: _____

TABLE 3: VERMONT YANKEE EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT

2005

Jan 1st to June 30th

Date	# of shipments	Class	Container	Resin (Ci)	Resin (ft3)	DAW (Ci)	DAW (ft3)	Irrad.Comp. (Ci)	Irrad. Comp. (m3)
January									
VY to Burial									
VY to Duratek									
VY to Studsvik	1	B	Type A	31.4	135				
VY to Race									
Duratek to Envirocare									
Studsvik to Envirocare	1	AU	STC			0.181	2		
Studsvik to Barnwell	5	B	Type B	55.1	85				
February									
VY to Burial									
VY to Duratek	1	AU	STC			5.1	450		
VY to Studsvik									
VY to Race									
Duratek to Envirocare									
Studsvik to Envirocare									
Studsvik to Barnwell									
March									
VY to Burial									
VY to Duratek									
VY to Studsvik	1	AU	STC	14.4	135				
VY to Race									
RACE to Envirocare	1	AU	STC			5.54E-06	1.65		
Studsvik to Envirocare									
Studsvik to Barnwell									
April									
VY to Burial									
VY to Duratek									
VY to Studsvik									
VY to Race									
Duratek to Envirocare									
Studsvik to Envirocare									
Studsvik to Barnwell									
May									
VY to Burial									
VY to Duratek									
VY to Studsvik	1	B	Type A	24.9	135				
VY to Race									
Duratek to Envirocare									
Studsvik to Envirocare									
Studsvik to Barnwell	1	C	Type B	13.8	21.79				
June									
VY to Burial									
VY to Duratek									
VY to Studsvik	1	AU	STC	17.6	135				
VY to Race	1	AU	STC			0.0679	600		
Duratek to Envirocare									
Studsvik to Envirocare									
Studsvik to Barnwell	2	B	Type B	24.2	17.6				
Total: 1/1 to 6/30									
VY to Burial									
VY to Duratek	1	AU	STC			5.1	12.7		
VY to Studsvik	4	AU/B	STC/Type A	88.3	15.3				
VY to RACE	1	AU	STC			0.1	17.0		
Duratek & RACE to Envirocare	1	AU	STC			0.0	0.0		
Studsvik to Envirocare	1	AU	STC			0.2	0.1		
Studsvik to Barnwell	8	B/C	Type B	93.1	3.5				

Table Notes:

Class: AS= A stable, AU= A unstable, B, C or >C
 Container: USA DOT Type 7A, Type B, Strong Tight Container
 Estimate of Major Nucleide Composition: See RADMAN DAW and Resin %

Reference Reports Required: VY LLW Generation /Processing / Disposal Report
 Duratek, RACE, & Studsvik Customer Monthly and/or Annual Reports
 RADMAN Reports: Historic Shipment Search Report, NRC Reg Guide 1.21 Reports

Completed By: _____

Reviewed By: _____

TABLE 3: VERMONT YANKEE EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT

2005

Jul 1st to Dec. 31st

Date	# of shipments	Class	Container	Resin (Cl)	Resin (ft3)	DAW (Cl)	DAW (ft3)	Irrad.Comp. (Cl)	Irrad. Comp. (m3)
July									
VY to Burial									
VY to Duratek	1	AU	STC			0.00242	1200		
VY to Studsvik	2	AU, B	STC, Type A	55.2	270				
VY to Race	1	AU, B	STC, Type A			0.0312	2400		
Duratek to Envirocare	1	AU	STC			2.287	49.82		
Studsvik to Envirocare									
Studsvik to Barnwell									
August									
VY to Burial									
VY to Duratek	1	AU	STC			0.0215	2400		
VY to Studsvik	1	B	Type A	27.6	135				
VY to Race	1	AU	STC			0.112	2400		
Duratek to Envirocare	1	AU	STC			2.809	81.91		
Studsvik to Envirocare									
Studsvik to Barnwell	5	B, C	Type B	78.8	96				
September									
VY to Burial									
VY to Duratek									
VY to Studsvik	1	AU	STC	9.49	135				
VY to Race									
RACE to Envirocare	4	AU	STC			0.125329	1384.89		
Studsvik to Envirocare									
Studsvik to Barnwell	2	B, C	Type B	23.97	45.19				
October									
VY to Burial									
VY to Duratek									
VY to Studsvik	1	AU	STC	4.44	135				
VY to Race									
RACE to Envirocare	7	AU	STC			6.92E-03	345.16		
Studsvik to Envirocare									
Studsvik to Barnwell	1	C	Type B	2.27	2.19				
November									
VY to Burial									
VY to Duratek	3	AU	STC			0.14245	6000		
VY to Studsvik									
VY to Race	3	AU	STC			0.21514	2656		
Duratek to Envirocare									
Studsvik to Envirocare	1	AU	STC			0.238	7.5		
Studsvik to Barnwell	1	AU	STC	4.23	23.64				
December									
VY to Burial									
VY to Duratek	1	AU	STC			0.244	2400		
VY to Studsvik	1	B	Type A	37.8	135				
VY to Race									
Duratek to Envirocare									
Studsvik to Envirocare									
Studsvik to Barnwell	1	AU	STC	2.26E-04	2.1				
Total: 7/1 to 12/31									
VY to Burial									
VY to Duratek	6	AU	STC			0.4	339.8		
VY to Studsvik	6	AU, B	STC, Type A	134.5	22.9				
VY to RACE	5	AU	STC			0.4	211.2		
Duratek & RACE to Envirocare	13	AU	STC			5.2	52.7		
Studsvik to Envirocare	1	AU	STC			0.2	0.2		
Studsvik to Barnwell	10	AU, B, C	STC, Type B	109.3	4.8				

Table Notes:

Class: AS= A stable, AU= A unstable, B, C or >C
 Container: USA DOT Type 7A, Type B, Strong Tight Container
 Estimate of Major Nuclide Composition: See RADMAN DAW and Resin %

Reference Reports Required: VY LLW Generation /Processing / Disposal Report
 Duratek, RACE, & Studsvik Customer Monthly and/or Annual Reports
 RADMAN Reports: Historic Shipment Search Report, NRC Reg Guide 1.21 Reports

Completed By: _____

Reviewed By: _____

TABLE 3
Entergy Nuclear Vermont Yankee
Effluent and Waste Disposal Annual Report
Third and Fourth Quarters for 2005
Solid Waste and Irradiated Fuel Shipments

A. Solid Waste Shipped Off-Site for Burial or Disposal (not irradiated fuel)

1. Type of Waste

Shipped from VY for Burial	Unit	3rd & 4th Quarters	Est. Total Error %
a. Spent resins, filter sludges, etc.	m3	0.0	+/- 2.50 E+01
	Cl	0.0	+/- 2.50 E+01
b. Dry Compressable waste, equipment, etc.	m3	0.0	+/- 2.50 E+01
	Cl	0.0	+/- 2.50 E+01
c. Irradiated components, control rods, etc.	m3		+/- 2.50 E+01
	Cl		+/- 2.50 E+01

Shipped from VY to Processor	Unit	3rd & 4th Quarters	Est. Total Error %
a. Spent resins, filter sludges, etc.	m3	22.9	+/- 2.50 E+01
	Cl	134.5	+/- 2.50 E+01
b. Dry Compressable waste, equipment, etc.	m3	551.0	+/- 2.50 E+01
	Cl	0.8	+/- 2.50 E+01
c. Irradiated components, control rods, etc.	m3		+/- 2.50 E+01
	Cl		+/- 2.50 E+01

Shipped from Processor(s) for Burial	Unit	3rd & 4th Quarters	Est. Total Error %
a. Spent resins, filter sludges, etc.	m3	4.8	+/- 2.50 E+01
	Cl	109.3	+/- 2.50 E+01
b. Dry Compressable waste, equipment, etc.	m3	52.7	+/- 2.50 E+01
	Cl	5.2	+/- 2.50 E+01
c. Irradiated components, control rods, etc.	m3		+/- 2.50 E+01
	Cl		+/- 2.50 E+01

2. Estimate of Major Nuclide Composition (By Type of Waste)

a. spent resins filter sludges		b. Dry Compactable waste, equipment	
Isotope	Percent (1)	Isotope	Percent
Co-60	23.35%	Fe-55	61.23%
Zn-65	21.83%	Co-60	19.47%
Fe-55	21.09%	Zn-65	8.85%
Cs-137	11.76%	Mn-54	5.45%
Ni-63	7.74%	Ce-144	3.01%
Mn-54	6.55%	Cs-137	1.38%
Cr-51	3.27%		
Cs-134	1.11%		
Co-58	1.09%		

(1) Includes only those nuclides that are greater than 1% of the total activity

3. Disposition of Solid Waste Shipments (3rd & 4th Quarters)

No. of Shipments	From VY	From Processor	Mode	To Processor	To Burial
0	X		truck		Duratek -Barnwell SC
6	X		truck	Duratek-Oak Ridge TN	
6	X		truck	Studsvik-Erwin, TN	
5	X		truck	RACE-Memphis, TN	
13		Duratek & RACE	truck		Envirocare, Clive UT
1		Studsvik-Erwin, TN	truck		Envirocare, Clive UT
10		Studsvik-Erwin, TN	truck		Duratek -Barnwell SC

B. Irradiated Fuel Shipments (Disposition): None

C. Additional Data (3rd & 4th Quarters)

Supplemental Information	VY to processor	VY to Burial	Processors to Burial
Class of Solid Waste Shipped	AU, B	none	AU, B, C
Type of Containers Used	STC, Type A	none	STC, Type B
Solidification Agent or Absorbent Used	none	none	none

Completed By: _____

Reviewed By: _____

NOTE:

ATTACH **RADMAN** REPORT

"NRC REGULATORY GUIDE 1.21 REPORTS"

FOR CURRENT YEAR