

Attachment to TXX-92422

Corrected Tables for 1990 and 1991  
CPSES Semiannual Radioactive Effluent Reports

- Table 7.3, Gaseous Effluents--Summation Of All Releases (end-of-year 1990 report).
- Table 7.5, Liquid Effluents--Summation Of All Releases (mid-year 1991 report).
- Table 7.7, Solid Waste And Irradiated Fuel Shipments (mid-year 1991 report).
- Table 7.13, Solid Waste And Irradiated Fuel Shipments (end-of-year 1991 report).

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Table 7.3

GASEOUS EFFLUENTS--SUMMATION OF ALL RELEASES

Units	Quarter 3	Quarter 4	Est. Total Error, %
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## A. Fission and Activation Gases

1. Total release	CI	4.44E+01	3.08E+02	1.76E+01
2. Average release rate for period	μCi/sec	5.59E+01	3.68E+01	
3. Percent of ODCM REC limit (Total Body)	%	1.30E-02	8.61E-03	
4. Percent of ODCM REC limit (Skin)	%	6.7E-03	4.75E-03	

## B. Iodines

1. Total iodine-131	CI	0.00E+00	0.00E+00	Note 1
2. Average release rate for period	μCi/sec	0.00E+00	0.00E+00	
3. Percent of ODCM REC limit (Organ)	%	0.00E+00	0.00E+00	

## C. Particulates

1. Particulates with half lives > 8 Days	CI	0.00E+00	0.00E+00	Note 1
2. Average release rate for period	μCi/sec	0.00E+00	0.00E+00	
3. Percent of ODCM REC limit (Organ)	%	0.00E+00	0.00E+00	
4. Gross alpha radioactivity	CI	8.76E-05	1.69E-04	Note 2

## D. Tritium

1. Total release	CI	2.00E+00	4.07E+00	2.40E+01
2. Average release rate for period	μCi/sec	2.51E-01	5.12E-01	
3. Percent of ODCM REC limit (Organ)	%	7.03E-04	1.43E-03	

Note 1: No iodine or particulate activity is reported for gaseous effluents, therefore errors for these values are not reported.

Note 2: The gross alpha radioactivity reported is assumed to be radon daughters, as discussed in section 2.4.2.

Table 7.5

LIQUID EFFLUENTS--SUMMATION OF ALL RELEASES

Units	Quarter 3	Quarter 4	Est. Total Error, %
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## A. Fission and Activation Products

1. Total release (not including tritium, gases, alpha)	CI	3.42E-03	7.91E-03	1.95E+01
2. Average diluted concentration during period	µCi/ml	1.05E-10	3.27E-10	
3. Percent of ODCN REC limit	%	3.56E-04	1.38E-03	

## B. Tritium

1. Total release	CI	8.43E+01	9.22E+01	2.00E+01
2. Average diluted concentration during period	µCi/ml	2.58E-06	3.61E-06	
3. Percent of ODCN REC limit	%	8.59E-02	1.27E-01	

## C. Dissolved and Entrained Gases

1. Total release	CI	2.65E-01	4.69E-02	1.88E+01
2. Average diluted concentration during period	µCi/ml	8.11E-09	1.94E-09	
3. Percent of ODCN REC limit	%	4.06E-03	9.89E-04	

## D. Gross Alpha Radioactivity

1. Total release	CI	9.93E-05	7.95E-05	Note 1
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E. Volume of waste released (prior to dilution)	Liters	2.36E+06	1.82E+06	2.20E+00
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F. Volume dilution of water used during period	Liters	3.27E+10	2.42E+10	1.00E+01
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Note 1: The gross alpha radioactivity reported is assumed to be radon daughters, as discussed in section 2.4.1.

Table 7.7

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS**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 <sup>1,2</sup>	m <sup>3</sup> Ci	5.83E+00 1.22E-02	1.00E+01
b.Dry compressible waste, contaminated equip., etc. <sup>1,3</sup>	m <sup>3</sup> Ci	5.70E+00 4.97E-02	1.00E+01
c.Irradiated components, control rods, etc.	m <sup>3</sup> Ci	NONE N/A	N/A

1. There were no solidification agents or absorbents applied to the solid waste.

2. Volume shipped to burial site

3. Volume shipped to burial sites via waste processors

**2. Estimate of Major Nuclide Composition (by type of waste)**

Type of Waste	Nuclide	% Abund.	Activity
a.Spent resins	H-3	99.7%	1.22E-02
b.Dry compressible waste, contaminated equip., etc.	Co-58	63.8%	3.17E-02
	Fe-55	29.0%	1.48E-02
	Mn-54	6.4%	3.18E-03

**3. Solid Waste Disposition**

Waste Class	Number of Shipments	DOT Type	Type of Container	Transportation Mode	Shipped To	Burial Site
AU	1.00E+00	LSA	Type A	Truck	Barnwell	Barnwell
AL	1.00E+00	LSA	Strong-tight	Truck	SEG	Barnwell
AU	1.00E+00	LSA	Strong-tight	Truck	SEG	Beatty

**B. Irradiated Fuel Shipments (Disposition)**

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
0	N/A	N/A

TABLE 7.13

## SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

## 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	m <sup>3</sup> Ci	None N/A	N/A
b. Dry compressible waste, contaminated equip. etc. <sup>(1,2)</sup>	m <sup>3</sup> Ci	5.83E+01 7.14E-01	1.00E+01
c. Irradiated components, control rods, etc.	m <sup>3</sup> Ci	None N/A	N/A
d. Other	m <sup>3</sup> Ci	None N/A	N/A

1. There were no solidification agents or absorbents applied to the solid waste
2. Volume shipped to burial site via waste processors.
3. Volume includes waste buried in prior 6 month period but not reported in last Semiannual Effluent Report.

2. Estimate of Major Nuclide Composition (by type of waste)	Nuclide	% Abund.	Activity (Ci)
b. Dry compressible waste, contaminated equipment, etc.	Co-58	56.1%	4.01E-01
	Cr-51	19.7%	1.43E-01
	Zr-95	4.4%	3.14E-02
	Nb-95	4.4%	3.14E-02
	Co-60	2.4%	1.71E-02
	Mn-54	2.3%	1.64E-02
	I-131	1.4%	1.00E-02
	Ni-63	1.2%	8.57E-03
	Fe-59	1.1%	7.85E-03
	Others	7.0%	5.00E-02

3. Solid Waste Disposition						
Waste Class	Number of Shipments	DOT Type	Type of Container	Transportation Mode	Shipped To	Burial Site
AU	5.00E+00	LSA	Strong-tight	Truck	ALARON	Barnwell
AU	5.00E+00	LSA	Strong-tight	Truck	SEG	Beatty

## B. Irradiated Fuel Shipments (Disposition)

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