

TABLE 2A

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1982)
LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

CORRECTED

Unit	Quarter 1st	Quarter 2nd	Est. Total Error, %
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A. Fission and activation products

1. Total release (not including tritium, gases, alpha)	Ci	9.64E-3	5.14E-3	
2. Average diluted concentration during period	µCi/ml	7.36E-10	3.25E-10	
3. Percent of applicable limit	%			

B. Tritium

1. Total release	Ci	4.29E-1	2.19E 0	
2. Average diluted concentration during period	µCi/ml	3.27E-8	1.39E-7	
3. Percent of applicable limit	%			

C. Dissolved and entrained gases

1. Total release	Ci			
2. Average diluted concentration during period	µCi/ml			
3. Percent of applicable limit	%			

D. Gross alpha radioactivity

1. Total Release	Ci		<1.00E-7	
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E. Volume of waste released (prior to dilution)	liters	4.32E 6	3.22E 6	
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F. Volume of dilution water used during period.	liters			
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Note: All less than values (<) are in µCi/ml.

*% Tech. Spec. Limits: Listed on Dose Summary Table.

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1982)

LIQUID EFFLUENTS

CORRECTED

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		Quarter 1st	Quarter 2nd	Quarter 1st	Quarter 2nd
strontium-89	Ci			3.41E-6	
strontium-90	Ci			1.32E-5	4.42E-5
cesium-134	Ci			1.18E-3	6.39E-4
cesium-137	Ci			6.96E-3	3.21E-3
iodine-131	Ci				
cobalt-58	Ci				
cobalt-60	Ci			1.15E-3	5.50E-4
iron-59	Ci				
zinc-65	Ci				
manganese-54	Ci				
chromium-51	Ci				
zirconium-niobium-95	Ci				
molybdenum-99	Ci				
technetium-99m	Ci				
barium-lanthanum-140	Ci				
cerium-141	Ci				
Other (specify)	Ci				
Iron-55	Ci			3.21E-4	2.79E-4
Antimony-125	Ci				4.15E-4
Phosphorus-32	Ci				
Total for period (above)	Ci			9.64E-3	5.14E-3
xenon-133	Ci				
xenon-135	Ci				

UNIT I
Quarter Dose Report

CORRECTED

SUMMARY OF MAXIMUM INDIVIDUAL DOSES FOR UNIT I FROM
January 1, 1982 through March 31, 1982

Effluent	Applicable Organ	Estimated Dose (mrem)	Age Group	Location Dist Dir (m) (toward)	% of Applicable Limit		10CFR50 App. I Limits (mrem)	
					Quarterly	Annual	Quarterly	Annual
Liquid	Total Body	8.2E-2	Adult	Receptor 1	5.5	2.7	1.5	
Liquid	Liver	1.2E-1	Adult/Teen	Receptor 1	2.4	1.2	5.0	
Noble Gas	Air Dose (gamma-mrad)							
Noble Gas	Air Dose (beta-mrad)							
Noble Gas	Total Body							
Noble Gas	Skin							
Iodine & Particulates								

SUMMARY OF MAXIMUM POPULATION DOSES FOR UNIT I FROM
January 1, 1982 through March 31, 1982

<u>Effluent</u>	<u>Applicable Organ</u>	<u>Estimated Population Dose (person-rem)</u>
Liquid	Total Body	1.7E-2
Liquid	Liver	3.2E-2

UNIT 1
Quarter Dose Report

CORRECTED

SUMMARY OF MAXIMUM INDIVIDUAL DOSES FOR UNIT FROM
April 1, 1982 through June 30, 1982

Effluent	Applicable Organ	Estimated Dose (mrem)	Age Group	Location Dist Dir (m) (toward)	% of Applicable Limit		10CFR50 App. I Limits (mrem)	
					Quarterly	Annual	Quarterly	Annual
Liquid	Total Body	3.4E-2	Adult	Receptor 1	2.3	1.1	1.5	3.0
Liquid	Liver	5.0E-2	Teen	Receptor 1	1.0	.5	5.0	10.0
Noble Gas	Air Dose (gamma-mrad)							
Noble Gas	Air Dose (beta-mrad)							
Noble Gas	Total Body							
Noble Gas	Skin							
Iodine & Particulates								

SUMMARY OF MAXIMUM POPULATION DOSES FOR UNIT 1 FROM
April 1, 1982 through June 30, 1984

Effluent	Applicable Organ	Estimated Population Dose (person-rem)
Liquid	Total Body	1.4E-2
Liquid	Bone, Liver	1.8E-2

TABLE 2A
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1982)
LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

CORRECTED

Unit	Quarter 3rd	Quarter 4th	Est. Total Error, %
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A. Fission and activation products

1. Total release (not including tritium, gases, alpha)	Ci	2.20E-2	1.79E-2	
2. Average diluted concentration during period	µCi/ml	1.47E-9	1.40E-9	
3. Percent of applicable limit	%			

B. Tritium

1. Total release	Ci	7.18E-1	5.71E-1	
2. Average diluted concentration during period	µCi/ml	4.79E-8	4.46E-8	
3. Percent of applicable limit	%			

C. Dissolved and entrained gases

1. Total release	Ci			
2. Average diluted concentration during period	µCi/ml			
3. Percent of applicable limit	%			

D. Gross alpha radioactivity

1. Total Release	Ci		2.49E-6	
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E. Volume of waste released (prior to dilution)	liters	4.36E 6	8.20E 5	
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F. Volume of dilution water used during period.	liters			
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Note: All less than values (<) are in µCi/ml.

*% Tech. Spec. Limits: Listed on Dose Summary Table.

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1982)
LIQUID EFFLUENTSCORRECTED

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		Quarter 3rd	Quarter 4th	Quarter 3rd	Quarter 4th
strontium-89	Ci			3.47E-6	7.88E-7
strontium-90	Ci			7.01E-5	2.64E-5
cesium-134	Ci			3.55E-3	
cesium-137	Ci			1.72E-2	
iodine-131	Ci				
cobalt-58	Ci				
cobalt-60	Ci			7.20E-4	
iron-59	Ci				
zinc-65	Ci				
manganese-54	Ci				
chromium-51	Ci				
zirconium-niobium-95	Ci				
molybdenum-99	Ci				
technetium-99m	Ci				
barium-lanthanum-140	Ci				
cerium-141	Ci				
Other (specify)	Ci				
Iron-55	Ci			4.08E-4	5.68E-5
Antimony-125	Ci				
Phosphorus-32	Ci				
Total for period (above)	Ci			2.20E-2	1.79E-2
xenon-133	Ci				
xenon-135	Ci				

UNIT 1
Quarter Dose Report

CORRECTED

SUMMARY OF MAXIMUM INDIVIDUAL DOSES FOR UNIT 1 FROM
July 1, 1982 through September 30, 1982

Effluent	Applicable Organ	Estimated Dose (mrem)	Age Group	Location Dist Dir (m) (toward)	% of Applicable Limit		10CFR50 App. 1 Limits (mrem)	
					Quarterly	Annual	Quarterly	Annual
Liquid	Total Body	2.3E-1	Adult	Receptor 1	15.3	7.6	1.5	3.0
Liquid	Liver	3.5E-1	Teen	Receptor 1	7	3.5	5.0	10.0
Noble Gas	Air Dose (gamma-mrad)							
Noble Gas	Air Dose (beta-mrad)							
Noble Gas	Total Body							
Noble Gas	Skin							

SUMMARY OF MAXIMUM POPULATION DOSES FOR UNIT 1 FROM
July 1, 1982 through September 30, 1982

<u>Effluent</u>	<u>Applicable Organ</u>	<u>Estimated Population Dose (person-rem)</u>
Liquid	Total Body	4.8E-2
Liquid	Liver	8.8E-2

UNIT 1
Quarter Dose Report

CORRECTED

SUMMARY OF MAXIMUM INDIVIDUAL DOSES FOR UNIT 1 FROM
October 1, 1982 through December 31, 1982

Effluent	Applicable Organ	Estimated Dose (mrem)	Age Group	Location Dist (m) Dir (toward)	% of Applicable Limit		10CFR50 App. I Limits (mrem)	
					Quarterly	Annual	Quarterly	Annual
Liquid	Total Body	2.2E-1	Adult	Receptor 1	14.7	7.3	1.5	3.0
Liquid	Liver	3.3E-1	Teen	Receptor 1	6.6	3.3	5.0	10.0
Noble Gas	Air Dose (gamma-mrad)		--					
Noble Gas	Air Dose (beta-mrad)		--					
Noble Gas	Total Body		--					
Noble Gas	Skin		--					
Iodine & Particulates								

SUMMARY OF MAXIMUM POPULATION DOSES FOR UNIT 1 FROM
October 1, 1982 through December 31, 1982

Effluent	Applicable Organ	Estimated Population Dose (person-rem)
Liquid	Total Body	4.5E-2
Liquid	Liver	8.4E-2