

TABLE 2A
 EFFLUENT SEMIANNUAL REPORT
 LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

	UNIT	QTR 1	QTR 2	TOTAL ERROR %
<u>16.0 VOLUME OF WASTE</u>				
(Prior to Dilution)	Liters	6.43E07	5.39E07	2.50E01
<u>17.0 VOLUME OF DILUTION</u>				
Water (liters)	Liters	1.03E11	8.14E10	2.50E01
<u>18.0 FISSION AND ACTIVATION PRODUCTS</u>				
18.1 Total Release W/O H-3, (Ci) Rad Gas, Alpha		6.20E-03	4.28E-03	2.50E01
18.2 Average Diluted (µCi/ml) Concentration		6.02E-11	5.26E-11	
<u>19.0 TRITIUM</u>				
19.1 Total Release (Ci)		1.48E02	1.79E02	2.50E01
19.2 Average Diluted (µCi/ml) Concentration		1.44E-06	2.20E-06	
<u>20.0 DISSOLVED AND ENTRAINED GASES</u>				
20.1 Total Release (Ci)		4.46E-03	1.84E-03	2.50E01
20.2 Average Diluted (µCi/ml) Concentration		4.33E-11	2.26E-11	
<u>21.0 GROSS ALPHA</u>				
21.1 Total Release (Ci)		0.00E00	0.00E00	2.50E01
<u>22.0 TOTAL TRITIUM, FISSION AND ACTIVATION PRODUCTS (µCi/ml)</u>				
		1.44E-06	2.20E-06	2.50E01

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UNIT	QTR <u>1</u>	QTR <u>2</u>	TOTAL ERROR %
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23.0	<u>TOTAL BODY DOSE</u>	(mrem)	<u>1.21E-03</u>	<u>4.36E-04</u>
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24.0	<u>CRITICAL ORGAN DOSE</u>	(mrem)	<u>1.62E-03</u>	<u>4.59E-04</u>
		(organ)	<u>Liver</u>	<u>Liver</u>

25.0	<u>% TOTAL BODY T.S. LIMIT</u>	(%)	<u>4.03E-02</u>	<u>1.45E-02</u>
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26.0	<u>% OF CRITICAL ORGAN</u>	(%)	<u>1.62E-02</u>	<u>4.59E-03</u>
	<u>T.S. Limit</u>			

TABLE 2A
EFFLUENT SEMIANNUAL RPEORT
LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

CONTINUOUS MODE

BATCH MODE

NUCLIDE	UNIT	QTR <u>1</u>	QTR <u>2</u>	QTR <u>1</u>	QTR <u>2</u>
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27.0 INDIVIDUAL LIQUID EFFLUENT

Sr89	Ci				
Sr90	Ci				
Cs134	Ci			2.84E-05	6.10E-07
Cs137	Ci	1.90E-04		2.50E-05	
I131	Ci				
Co58	Ci	8.62E-04	1.59E-04	1.72E-03	1.65E-04
Co60	Ci	4.48E-04		3.51E-04	3.29E-04
Fe59	Ci				
Zn65	Ci				
Mn54	Ci			8.34E-05	6.76E-06
Cr51	Ci				
Zr-Nb95	Ci			4.07E-05	
Mo99	Ci				
Ba-La140	Ci				
*	Ci	3.75E-04	0.00E00	2.07E-03	3.62E-03
Total	Ci	1.88E-03	1.59E-04	4.32E-03	4.12E-03

*Individual Liquid Effluent Activity from Attachment #1

CONTINUOUS MODE

BATCH MODE

NUCLIDE	UNIT	QTR <u>1</u>	QTR <u>2</u>	QTR <u>1</u>	QTR <u>2</u>
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28.0 DISSOLVED AND ENTRAINED GASES

Xe133	Ci	1.71E-04		3.30E-03	1.84E-03
Xe133m	Ci				
Xe131m	Ci				
Xe135	Ci			2.99E-05	3.18E-06
Kr85m	Ci				
Kr85	Ci			9.64E-04	
Kr88	Ci				
Total	Ci	1.71E-04	0.00E00	4.29E-03	1.84E-03

ATTACHMENT 1

 ADDITIONAL NUCLIDES

GASEOUS EFFLUENTS

NUCLIDE	UNIT	CONTINUOUS MODE		BATCH MODE	
		QTR 1	QTR 2	QTR 1	QTR 2
Ga-72	Ci			8.06E-07	
Mn-54	Ci			7.61E-07	
Se-75	Ci	5.00E-07			
Fe-55	Ci				
Subtotal	Ci	5.00E-07	0.00E00	1.57E-06	0.00E00

LIQUID EFFLUENTS

NUCLIDE	UNIT	CONTINUOUS MODE		BATCH MODE	
		QTR 1	QTR 2	QTR 1	QTR 2
Ag-110m	Ci			9.03E-05	8.62E-04
Cs-136	Ci				5.17E-05
Ga-72	Ci			8.83E-05	
Nb-97	Ci			7.10E-07	
Sb-124	Ci			1.43E-03	1.20E-04
Sb-125	Ci	3.75E-04		4.61E-04	1.90E-04
Sc-47	Ci			1.50E-06	
Sr-92	Ci				2.66E-04
Zr-97	Ci				3.66E-05
Fe-55	Ci				2.09E-03
Subtotal	Ci	3.75E-04	0.00E00	2.07E-03	3.62E-03