

TABLE IC

EFFLUENT AND WASTE DISPOSAL REPORT

GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

SEMIANNUAL FOR JAN THRU JUN 81

NUCLIDES-IN CURTIES	1 QUARTER			2 QUARTER			TOTAL	
	CONT	DECAY	RH060	TOTAL	CONT	DECAY		RH060
FISSION GASES								
XENON-133	8.59E+01	1.15E-01	0.0	8.60E+01	4.49E+01	9.30E-02	0.0	4.50E+01
KRYPTON-85M	5.79E-03	6.72E-06	0.0	5.79E-03	1.29E-02	1.15E-05	0.0	1.29E-02
XENON-131M	1.42E+00	6.08E-03	0.0	1.43E+00	8.15E-01	1.25E-02	0.0	8.28E-01
KRYPTON-88	58.16E-03	1.44E-05	0.0	58.17E-03	1.37E-02	2.70E-05	0.0	1.37E-02
XENON-133M	9.38E-01	7.26E-05	0.0	9.38E-01	2.60E-01	3.28E-04	0.0	2.61E-01
XENON-135	4.73E-01	5.75E-06	0.0	4.73E-01	5.39E-01	1.01E-05	0.0	5.39E-01
KRYPTON-87	58.69E-03	1.41E-05	0.0	58.71E-03	9.50E-03	2.68E-05	0.0	9.53E-03
XENON-137	3.50E-02	5.39E-05	0.0	3.50E-02	3.01E-02	9.67E-05	0.0	3.02E-02
KRYPTON-85	2.06E+00	1.99E-01	0.0	2.26E+00	2.84E+00	5.31E-01	0.0	3.37E+00
XENON-135M	1.06E-02	1.26E-05	0.0	1.06E-02	8.73E-03	1.95E-05	0.0	8.75E-03
ARGON-41	1.01E+00	3.40E-06	0.0	1.01E+00	6.90E-01	5.94E-06	0.0	6.90E-01
TOTAL FOR PERIOD	9.19E+01	3.19E-01	0.0	9.22E+01	5.01E+01	6.37E-01	0.0	5.08E+01
IODINES								
IODINE-131 CTD.	0.0	0.0	0.0	8.43E-05	8.43E-05	0.0	0.0	4.19E-05
IODINE-133 CTD.	0.0	0.0	0.0	2.85E-06	2.85E-06	0.0	0.0	4.48E-06
IODINE-135 CTD.	0.0	0.0	0.0	1.37E-05	1.37E-05	0.0	0.0	1.22E-05
TOTAL FOR PERIOD	0.0	0.0	0.0	1.01E-04	1.01E-04	0.0	0.0	5.86E-05
PARTICULATES								
STRONTIUM-89	0.0	0.0	0.0	3.39E-08	3.39E-08	0.0	0.0	2.17E-07
STRONTIUM-90	0.0	0.0	0.0	3.39E-08	3.39E-08	0.0	0.0	3.68E-08
IODINE-131 PRF.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IODINE-133 PRF.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM-140	0.0	0.0	0.0	6.05E-06	6.05E-06	0.0	0.0	5.44E-06
CESIUM-137	0.0	0.0	0.0	3.45E-06	3.45E-06	0.0	0.0	2.33E-06
CESIUM-134	0.0	0.0	0.0	2.90E-06	2.90E-06	0.0	0.0	2.74E-06
CORALT-58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MANGANESE-54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CORALT-50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IODINE-135 PRF.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LANTHANUM-140	0.0	0.0	0.0	2.36E-06	2.36E-06	0.0	0.0	2.51E-06
TOTAL FOR PERIOD	0.0	0.0	0.0	1.48E-05	1.48E-05	0.0	0.0	1.33E-05
ALPHA, TRITIUM & OTHER								
ALPHA	0.0	0.0	0.0	2.52E-07	2.52E-07	0.0	0.0	1.66E-06
TRITIUM	6.79E+00	1.18E-01	0.0	6.91E+00	1.62E+01	7.39E-03	0.0	1.62E+01
GROSS BETA/GAMMA	0.0	0.0	0.0	1.23E-05	1.23E-05	0.0	0.0	2.06E-05

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TABLE 2B

EFFLUENT AND WASTE DISPOSAL REPORT

LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

SEMIANNUAL FOR JAN THRU JUN 81

NUCLIDES IN CURIES	1 QUARTER		2 QUARTER	
	CONT	BATCH	CONT	BATCH
STRONTIUM-89	3.75E-04	1.30E-05	4.92E-05	1.24E-05
STRONTIUM-90	3.75E-04	1.30E-05	1.76E-05	3.98E-06
COBALT-57	4.29E-04	1.14E-04	3.84E-04	9.44E-05
MOLYBDENUM-99	3.57E-04	8.93E-05	3.32E-04	7.88E-05
TECHNETIUM-99M	1.73E-04	4.34E-05	1.61E-04	3.83E-05
CERIUM-141	7.08E-04	1.66E-04	6.54E-04	1.49E-04
TIN-117M	5.24E-04	1.04E-04	3.29E-04	1.05E-04
CHROMIUM-51	3.29E-03	5.99E-04	3.12E-03	7.26E-04
IODINE-131	4.08E-04	6.60E-04	4.06E-04	2.39E-03
IODINE-133	4.17E-04	8.98E-05	3.66E-04	9.52E-05
BARIUM-140	1.07E-03	1.97E-04	1.02E-03	2.40E-04
RUTHENIUM-103	4.11E-04	7.51E-05	3.91E-04	9.13E-05
CESIUM-137	4.91E-04	3.79E-03	4.45E-04	9.75E-03
ZIRCONIUM-95	7.28E-04	8.81E-05	6.43E-04	9.37E-05
NIOBIUM-95	3.98E-04	5.01E-05	3.94E-04	5.40E-05
CESIUM-134	4.34E-04	1.73E-03	4.06E-04	5.73E-03
COBALT-58	4.35E-04	1.39E-04	4.13E-04	5.53E-05
MANGANESE-54	3.91E-04	1.29E-04	3.67E-04	5.34E-05
CESIUM-136	5.64E-04	6.57E-05	4.99E-04	1.87E-04
IRON-59	7.45E-04	9.47E-05	7.69E-04	8.85E-05
ZINC-65	1.13E-03	1.10E-04	1.05E-03	1.02E-04
COBALT-60	4.03E-04	3.77E-04	4.14E-04	1.31E-04
LANTHANUM-140	2.86E-04	3.40E-05	3.85E-04	2.47E-05
ANTIMONY-124	4.23E-04	1.21E-04	4.30E-04	1.53E-04
TOTAL FOR PERIOD	1.50E-02	8.89E-03	1.35E-02	2.04E-02
DISSOLVED GASES				
ENTRAINED GASES				
XENON-133	3.00E-03	9.75E-01	1.25E-03	8.63E-01
XENON-135	3.51E-04	1.46E-02	3.43E-04	9.38E-04
TOTAL FOR PERIOD	3.36E-03	9.90E-01	1.59E-03	8.63E-01
OTHER, ALPHA & TRITIUM				
ALPHA	1.15E-05	9.84E-07	1.12E-05	2.17E-05
TRITIUM	1.29E-02	1.81E+02	4.13E-03	4.69E+01
GROSS BETA/GAMMA	0.0	0.0	0.0	0.0
TOTAL FOR PERIOD	1.29E-02	1.81E+02	4.13E-03	4.69E+01
AVG. CONC. IN UCI/ML				
ALPHA	2.49E-13	5.07E-13	1.83E-13	1.01E-12
TRITIUM	1.94E-10	7.15E-05	4.71E-11	1.93E-05