

TABLE 1C -REG GUIDE 1.21 (Cont.)

CALVERT CLIFFS NUCLEAR POWER PLANT
EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT
SECOND HALF - 1987

GASEOUS EFFLUENTS - GROUND LEVEL RELEASES

3. PARTICULATES	UNITS	CONTINUOUS MODE		BATCH MODE	
		3RD QUARTER	4TH QUARTER	3RD QUARTER	4TH QUARTER
Cobalt -58	Ci	1.87E-05	7.64E-06	(1)	(1)
Cobalt -60	Ci	-	9.78E-07	(1)	(1)
Strontium -89	Ci	<MDA (2)	<MDA (2)	(1)	(1)
Strontium -90	Ci	<MDA (2)	<MDA (2)	(1)	(1)
Cesium -134	Ci	-	2.93E-06	(1)	(1)
Cesium -137	Ci	8.92E-06	1.28E-05	(1)	(1)
Cerium -141	Ci	4.76E-07	5.27E-07	(1)	(1)
Total For Period	Ci	2.81E-05	2.49E-05	(1)	(1)

- (1) Particulates in batch releases are accounted for with the main vent continuous particulate samplers when the release is made through the plant main vent.
- (2) Less than minimum detectable activity which meets the LLD requirements of Technical Specification 3.11.2.1.

TABLE 2A - REG GUIDE 1.21

CALVERT CLIFFS NUCLEAR POWER PLANT
EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT
SECOND HALF - 1987

LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

A. FISSION AND ACTIVATION GASES	UNITS	3RD QUARTER	4TH QUARTER	EST. TOTAL ERROR, %
1. Total Release (not including tritium, gases, alpha)	Ci	1.61E+00	4.58E-01	2.16E+01
2. Average diluted concentration during period	uCi/ml	2.80E-09	7.70E-10	
3. Percent of tech. spec. limit(1)	%	2.80E+00	7.70E-01	
4. Percent of tech. spec. limit(2)	%	2.71E+00	1.02E+00	
5. Percent of tech. spec. limit(3)	%	1.36E+00	5.10E-01	
6. Percent of tech. spec. limit(4)	%	1.30E+00	1.09E-01	
7. Percent of tech. spec. limit(5)	%	6.51E-01	5.45E-02	
B. TRITIUM				
1. Total Release	Ci	1.58E+02	3.09E+02	1.81E+01
2. Average diluted concentration during period	uCi/ml	2.75E-07	5.19E-07	
3. Percent of applicable limit	%	9.17E-03	1.73E-02	
C. DISSOLVED AND ENTRAINED GASES				
1. Total Release	Ci	3.73E-01	2.13E-01	2.00E+01
2. Average diluted concentration during period	uCi/ml	6.48E-10	3.58E-10	

TABLE 2B - REC. GUIDE 1.21

CALVERT CLIFFS NUCLEAR POWER PLANT
EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT
SECOND HALF - 1987

LIQUID EFFLUENTS

NUCLIDES RELEASED		UNITS	CONTINUOUS MODE (1)		BATCH MODE	
			3RD QUARTER	4TH QUARTER	3RD QUARTER	4TH QUARTER
Sodium	-24	Ci	0	0	7.74E-04	8.40E-03
Chromium	-51	Ci	0	0	1.50E-02	3.22E-03
Manganese	-54	Ci	0	0	6.08E-03	1.27E-03
Cobalt	-57	Ci	0	0	1.14E-04	3.97E-05
Cobalt	-58	Ci	0	0	1.65E-01	2.63E-02
Cobalt	-60	Ci	0	0	5.42E-02	5.92E-03
Iron	-59	Ci	0	0	2.08E-04	3.77E-05
Strontium	-89	Ci	0	0	2.20E-04	9.79E-04
Strontium	-90	Ci	0	0	2.01E-04	1.24E-04
Strontium	-91	Ci	0	0	1.89E-04	-
Zirconium	-95	Ci	0	0	1.50E-02	9.37E-04
Niobium	-95	Ci	0	0	3.37E-02	2.95E-03
Niobium	-97	Ci	0	0	-	7.46E-05
Molybdenum	-99	Ci	0	0	9.41E-04	1.12E-03
Technicium	-99m	Ci	0	0	1.70E-03	2.17E-03
Ruthenium	-103	Ci	0	0	1.01E-03	6.73E-05
Ruthenium	-106	Ci	0	0	3.81E-04	-
Cadmium	-109	Ci	0	0	-	7.92E-04
Silver	-110m	Ci	0	0	3.07E-02	2.70E-03
Tin	-113	Ci	0	0	1.99E-03	1.35E-04
Antimony	-122	Ci	0	0	3.53E-04	-
Antimony	-125	Ci	0	0	5.36E-02	1.54E-02

TABLE 2B - REG GUIDE 1.21 (Cont.)

CALVERT CLIFFS NUCLEAR POWER PLANT
EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT
SECOND HALF - 1987

LIQUID EFFLUENTS

NUCLIDES RELEASED		UNITS	CONTINUOUS MODE (1)		BATCH MODE	
			3RD QUARTER	4TH QUARTER	3RD QUARTER	4TH QUARTER
Tellurium	-132	Ci	0	0	-	2.20E-05
Iodine	-131	Ci	0	0	1.22E-01	2.62E-01
Iodine	-132	Ci	0	0	2.68E-03	1.97E-04
Iodine	-133	Ci	0	0	8.51E-02	3.68E-02
Iodine	-134	Ci	0	0	-	9.63E-06
Iodine	-135	Ci	0	0	2.01E-02	5.89E-03
Cesium	-134	Ci	0	0	4.10E-01	2.72E-02
Cesium	-136	Ci	0	0	2.96E-04	1.46E-03
Cesium	-137	Ci	0	0	5.91E-01	5.15E-02
Lanthanum	-140	Ci	0	0	-	7.34E-05
Lanthanum	-142	Ci	0	0	-	2.91E-04
Cerium	-141	Ci	0	0	-	7.96E-05
Cerium	-144	Ci	0	0	7.16E-06	-
Tungsten	-187	Ci	0	0	1.20E-04	2.85E-05
Total For Period		Ci	0	0	1.61E+00	4.58E-01

TABLE 2B - REG GUIDE 1.21 (Cont.)

CALVERT CLIFFS NUCLEAR POWER PLANT
EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT
SECOND HALF - 1987

LIQUID EFFLUENTS

NUCLIDES RELEASED		UNITS	CONTINUOUS MODE (1)		BATCH MODE	
			3RD QUARTER	4TH QUARTER	3RD QUARTER	4TH QUARTER
Krypton	-85m	Ci	0	0	2.01E-05	9.22E-05
Xenon	-131m	Ci	0	0	-	9.80E-04
Xenon	-133	Ci	0	0	3.24E-01	2.03E-01
Xenon	-133m	Ci	0	0	2.51E-04	1.65E-03
Xenon	-135	Ci	0	0	1.38E-02	5.60E-03
Xenon	-135m	Ci	0	0	3.45E-02	1.57E-03
Total For Period		Ci	0	0	3.73E-01	2.13E-01

(1) There were no continuous liquid releases during the 3rd and 4th quarters.