

MILLSTONE NUCLEAR POWER STATION - UNIT No. 1EFFLUENT AND WASTE DISPOSAL REPORT
LIQUID EFFLUENTS - SUMMATION OF ALL RELEASESYear 1983

Units	JAN.	FEB.	MARCH	QUARTERLY TOTALS	Est. Total Error, %
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A. Fission and Activation Products

1. Total released(not including H-3,Gases, Alpha)	Ci	1.79 E-02	6.94 E-01	6.49 E-02	7.77 E-01	1.50E+01
2. Average diluted concentration during period*	uCi/ml	6.07 E-09	1.23 E-07	1.21 E-08	5.55 E-08	
3. Percent of applicable limit **	%					

** Based on limit of 10.0 curies per quarter - E.T.S., 2.4.1.2.E

B. Tritium

1. Total Released	Ci	2.52 E-01	6.86 E-01	6.71 E-01	1.61 E+00	1.50E+01
2. Average diluted concentration during period *	uCi/ml	8.54 E-08	1.22 E-07	1.25 E-07	1.15 E-07	

C. Dissolved and Entrained Gases

1. Total Released	Ci	2.09 E-02	6.99 E-02	4.13 E-02	1.32 E-01	1.50E+01
2. Average diluted concentration during period*	uCi/ml	7.08 E-09	1.24 E-08	7.68 E-09	9.43 E-09	

D. Gross Alpha Radioactivity

1. Total Released	Ci	≤ 2.47 E-05	≤ 4.04 E-05	≤ 9.5 E-05	-----	1.50E+01
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* During periods of actual release.

E. Volume of waste released(Prior to dilution)	liters	4.03 E+05	8.07 E+05	9.54 E+05	2.26 E+06	1.00E+01
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F. Volume of dilution water used during period	liters	1.67 E+11	1.53 E+11	1.41 E+11	4.61 E+11	1.00E+01
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EFFLUENT AND WASTE DISPOSAL REPORT
 LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

Year 1983

Units	APRIL	MAY	June	QUARTERLY TOTALS	Est. Total Error, %
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A. Fission and Activation Products

1. Total released(not including H-3,Gases, Alpha)	Ci	2.26 E-03	3.83 E-03	1.25 E-03	7.34 E-03	1.50E+01
2. Average diluted concentration during period*	uCi/ml	5.31 E-10	1.07 E-09	3.61 E-10	6.50 E-10	
3. Percent of applicable limit **	%					

** Based on limit of 10.0 curies per quarter - E.T.S., 2.4.1.2.E

B. Tritium

1. Total Released	Ci	4.79 E-01	3.98 E-01	9.95 E-01	1.87 E+00	1.50E+01
2. Average diluted concentration during period*	uCi/ml	1.12 E-07	1.11 E-07	2.88 E-07	1.65 E-07	

C. Dissolved and Entrained Gases

1. Total Released	Ci	3.63 E-03	1.41 E-03	1.50 E-02	2.00 E-02	1.50E+01
2. Average diluted concentration during period*	uCi/ml	8.52 E-10	3.94 E-10	4.34 E-09	1.77 E-09	

D. Gross Alpha Radioactivity

1. Total Released	Ci	≤ 2.17 E-05	≤ 1.92 E-05	≤ 5.10 E-05	-----	1.50E+01
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* During periods of actual release.

E. Volume of waste released(Prior to dilution)	liters	7.24 E+05	4.79 E+05	8.50 E+05	2.05 E+06	1.00E+01
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F. Volume of dilution water used during period	liters	1.57 E+11	1.43 E+11	1.12 E+11	4.12 E+11	1.00E+01
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TABLE 2.1-1
MILLSBORO NUCLEAR POWER STATION - UNIT No. 1

EFFLUENT AND WASTE DISPOSAL REPORT
LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

Year 1983

Units	JULY	AUG.	SEPT.	QUARTERLY TOTALS	Est. Total Error, %
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A. Fission and Activation Products

1. Total released(not including H-3,Gases, Alpha)	Ci	1.61E-03	6.30E-04	4.85E-03	7.09E-03	1.50E+01
2. Average diluted concentration during period*	µCi/ml	2.80E-10	2.38E-10	8.48E-10	5.03E-10	
3. Percent of applicable limit **	%				0.007	

** Based on Limit of 1.5 mrem whole body dose per quarter - E.T.S. 2.4.1.2.D

B. Tritium

1. Total Released	Ci	5.23E-01	8.17E-03	3.11E+00	3.64E+00	1.50E+01
2. Average diluted concentration during period*	µCi/ml	9.11E-08	3.08E-09	5.44E-07	2.58E-07	

C. Dissolved and Entrained Gases

1. Total Released	Ci	3.64E-02	2.78E-05	3.48E-02	7.12E-02	1.50E+01
2. Average diluted concentration during period*	µCi/ml	6.34E-09	1.05E-11	6.08E-09	5.05E-09	

D. Gross Alpha Radioactivity

Total Released	Ci	≤1.80E-05	≤5.88E-06	≤7.72E-05	-----	1.50E+01
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* During periods of actual release.

Volume of waste released(Prior to dilution)	liters	7.18E+05	1.47E+05	1.93E+06	2.80E+06	1.00E+01
Volume of dilution water used during period	liters	1.26 E+11	1.25 E+11	1.22 E+11	3.73 E+11	1.00E+01

EFFLUENT AND WASTE DISPOSAL REPORT
 LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

Year 1983

Units	OCT	NOV	DEC	QUARTERLY TOTALS	Est. Total Error, %
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A. Fission and Activation Products

1. Total released(not including H-3,Gases, Alpha)	Ci	6.02 E-03	3.91 E-03	6.26 E-03	1.62 E-02	1.50E+01
2. Average diluted concentration during period *	µCi/ml	1.69 E-09	7.82 E-10	1.61 E-09	1.30 E-09	
3. Percent of applicable limit **	%				0.013	

** Based on limit of 1.5 mrem whold body dose per quarter - E.T.S. 2.4.1.2.D

B. Tritium

1. Total Released	Ci	1.31 E-01	9.54 E-01	1.78 E-01	1.26 E+00	1.50E+01
2. Average diluted concentration during period *	µCi/ml	3.66 E-08	1.91 E-07	4.56 E-08	1.01 E-07	

C. Dissolved and Entrained Gases

1. Total Released	Ci	2.68 E-03	1.61 E-02	1.37 E-03	2.02 E-02	1.50E+01
2. Average diluted concentration during period*	µCi/ml	7.49 E-10	3.22 E-09	3.51 E-10	1.62 E-09	

D. Gross Alpha Radioactivity

1. Total Released	Ci	≤ 1.64 E-05	≤ 3.48 E-05	≤ 1.30 E-05	-----	1.50E+01
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* During periods of actual release.

Volume of waste released(Prior to dilution)	liters	2.74 E+05	6.96 E+05	3.25 E+05	1.30 E+06	1.00E+01
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Volume of dilution water used during period	liters	1.24 E+11	1.12 E+11	1.12 E+11	3.48 E+11	1.00E+01
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