

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

Year 1983

Units	JANUARY	FEBRUARY	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	6.04E-01	3.27E-01	5.53E-01	1.48E+00	1.50E+01
2. Average diluted concentration during period*	uCi/ml	6.93E-09	3.97E-09	1.03E-08	6.64E-09	
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	2.21E+01	3.40E+01	1.46E+01	7.07E+01	1.50E+01
2. Average diluted concentration during period*	uCi/ml	2.53E-07	4.13E-07	2.72E-07	3.13E-07	

C. Dissolved and Entrained Gases

1. Total Released	Ci	4.85E+00	7.72E+00	5.24E+00	1.78E+01	1.50E+01
2. Average diluted concentration during period*	uCi/ml	5.56E-08	9.38E-08	9.76E-08	7.88E-08	

D. Gross Alpha Radioactivity

1. Total Released	Ci	≤ 3.94E-04	≤ 5.96E-04	≤ 3.46E-04	- - - -	1.50E+01
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\* During periods of actual release.

E. Volume of waste released(Prior to dilution)	liters	1.46E+07	1.48E+07	1.09E+07	4.03E+07	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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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	1.58E-01	2.36E-01	2.91E-01	6.85E-01	1.50E+01
2. Average diluted concentration during period *	uCi/ml	1.60E-09	1.41E-09	7.78E-08	2.53E-09	
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	1.52E+01	1.32E+01	8.34E+00	3.67E+01	1.50E+01
2. Average diluted concentration during period*	uCi/ml	1.54E-07	7.86E-08	2.23E-06	1.35E-07	

C. Dissolved and Entrained Gases

1. Total Released	Ci	5.25E+00	8.08E+00	1.39E+00	1.47E+01	1.50E+01
2. Average diluted concentration during period*	uCi/ml	5.30E-08	4.81E-08	3.72E-07	5.42E-08	

D. Gross Alpha Radioactivity

1. Total Released	Ci	≤ 4.12E-04	≤ 4.94E-04	≤ 4.05E-05	- - - - -	1.50E+01
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\* During periods of actual release.

E. Volume of waste re-leased(Prior to dilution)	liters	1.53E+07	2.28E+07	1.23E+06	3.93E+07	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 2.2-1

MILLSTONE NUCLEAR POWER STATION - UNIT No. 2EFFLUENT AND WASTE DISPOSAL REPORT  
LIQUID EFFLUENTS - SUMMATION OF ALL RELEASESYear 1983

Units	JULY	AUGUST	SEPTEMBER	QUARTERLY TOTALS	Est. Total Error, %
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## A. Fission and Activation Products

1. Total released(not including H-3,Gases, Alpha)	Ci	1.16E+00	6.37E-01	6.27E-01	2.42E+00	1.50E+01
2. Average diluted concentration during period*	uCi/ml	2.50E-07	2.70E-07	1.16E-07	1.95E-07	
3. Percent of applicable limit **	%				2.4	

\*\* 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	2.39E+00	2.24E+00	1.86E+00	6.49E+00	1.50E+01
2. Average diluted concentration during period *	uCi/ml	5.15E-07	9.49E-07	3.44E-07	5.23E-07	

## C. Dissolved and Entrained Gases

1. Total Released	Ci	4.71E-02	$\leq 1.14E-03$	$\leq 1.09E-03$	4.71E-02	1.50E+01
2. Average diluted concentration during period *	uCi/ml	1.02E-08	$\leq 4.83E-10$	$\leq 2.01E-10$	3.80E-09	

## D. Gross Alpha Radioactivity

1. Total Released	Ci	$\leq 8.07E-05$	$\leq 1.07E-04$	$\leq 1.15E-04$	- - - -	1.50E+01
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\* During periods of actual release.

2. Volume of waste released(Prior to dilution)	liters	8.07E+05	3.57E+05	5.01E+05	1.67E+06	1.00E+01
3. 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

TABLE 2.2-1 (Continued)

MILLSTONE NUCLEAR POWER STATION - UNIT No. 2EFFLUENT AND WASTE DISPOSAL REPORT  
LIQUID EFFLUENTS - SUMMATION OF ALL RELEASESYear 1983

Units	OCTOBER	NOVEMBER	DECEMBER	QUARTERLY TOTALS	Est. Total Error, %
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## A. Fission and Activation Products

1. Total released(not including H-3,Gases, Alpha)	Ci	9.47E-01	1.41E+00	8.68E-01	3.22E+00	1.50E+01
2. Average diluted concentration during period*	µCi/ml	3.15E-07	4.03E-07	2.55E-07	3.47E-07	
3. Percent of applicable limit **	%				3.0	

\*\* 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	1.97E+00	1.86E+00	2.99E+00	6.82E+00	1.50E+01
2. Average diluted concentration during period*	µCi/ml	6.55E-07	5.31E-07	8.77E-07	6.88E-07	

## C. Dissolved and Entrained Gases

1. Total Released	Ci	≤ 1.93E-03	≤ 2.17E-03	≤ 1.36E-03	- - - - -	1.50E+01
2. Average diluted concentration during period *	µCi/ml	≤ 6.41E-10	≤ 6.20E-10	≤ 3.99E-10	- - - - -	

## D. Gross Alpha Radioactivity

1. Total Released	Ci	≤ 4.16E-05	≤ 2.80E-05	≤ 4.66E-05	- - - - -	1.50E+01
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\* During periods of actual release.

E. Volume of waste re-used(Prior to dilution)	liters	6.94E+05	5.60E+05	7.77E+05	2.03E+06	1.00E+01
F. 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