

Table 2.1-1

MILLSTONE NUCLEAR POWER STATION - UNIT No. 1

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

Year 1982

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	2.65 E-03	3.44 E-03	1.44 E-03	7.53 E-03	1.50E+01
2. Average diluted concentration during period*	µCi/ml	3.89 E-10	4.40 E-10	2.97 E-10	3.86 E-10	
3. Percent of applicable limit **	%				** 7.53 E-02	

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

B. Tritium

1. Total Released	Ci	1.10 E-01	4.50 E-03	8.46 E-03	1.23 E-01	1.50E+01
2. Average diluted concentration during period*	µCi/ml	1.62 E-08	5.75 E-10	1.74 E-09	6.31 E-09	

C. Dissolved and Entrained Gases

1. Total Released	Ci	2.15 E-02	2.59 E-05	7.87 E-05	2.16 E-02	1.50E+01
2. Average diluted concentration during period*	µCi/ml	3.16 E-09	3.31 E-12	1.62 E-10	1.11 E-09	

D. Gross Alpha Radioactivity

1. Total Released	Ci	≤ 1.24 E-05	≤ 3.96 E-06	≤ 5.30 E-06	-----	1.50E+01
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* During periods of actual release.

Volume of waste released(Prior to dilution)	liters	2.48 E+05	1.32 E+05	1.06 E+05	4.86 E+05	1.00E+01
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F. Volume of dilution water used during period	liters	1.20 E+11	1.10 E+11	1.46 E+11	3.76 E+11	1.00E+01
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Table 2.1-1 (Continued)

MILLSTONE NUCLEAR POWER STATION - UNIT No. 1EFFLUENT AND WASTE DISPOSAL REPORT
LIQUID EFFLUENTS - SUMMATION OF ALL RELEASESYear 1982

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	3.40 E-04	2.94 E-02	3.77 E-04	3.01 E-02	1.50E+01
2. Average diluted concentration during period *	uCi/ml	6.65 E-11	4.22 E-09	1.03 E-10	1.92 E-09	
3. Percent of applicable limit **	%				** 0.30	

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

B. Tritium

1. Total Released	Ci	1.44 E-02	1.87 E-03	1.08 E-01	1.24 E-01	1.50E+01
2. Average diluted concentration during period *	uCi/ml	2.82 E-09	2.68 E-10	2.95 E-08	7.90 E-09	

C. Dissolved and Entrained Gases

1. Total Released	Ci	1.64 E-04	1.76 E-02	2.51 E-04	1.80 E-02	1.50E+01
2. Average diluted concentration during period *	uCi/ml	3.21 E-11	2.53 E-09	6.86 E-11	1.15 E-09	

D. Gross Alpha Radioactivity

1. Total Released	Ci	≤5.90 E-06	≤2.95 E-05	≤4.57 E-06	-----	1.50E+01
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* During periods of actual release.

E. Volume of waste released(Prior to dilution)	liters	1.18 E+05	7.25 E+05	9.18 E+04	9.35 E+05	1.00E+01
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F. Volume of dilution water used during period	liters	1.59 E+11	1.70 E+11	1.67 E+11	4.96 E+11	1.00E+01
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EFFLUENT AND WASTE DISPOSAL REPORT
LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

Year 1982

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	5.13 E-01	1.61 E-02	4.81 E-02	5.77 E-01	1.50E+01
2. Average diluted concentration during period*	uCi/ml	5.69 E-08	4.76 E-09	1.69 E-08	3.80 E-08	
3. Percent of applicable limit **	%	---	---	---	0.49	

** 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	1.50 E+00	4.28 E-01	1.95 E+00	3.88 E+00	1.50E+01
2. Average diluted concentration during period *	uCi/ml	1.66 E-07	1.27 E-07	6.88 E-07	2.55 E-07	

C. Dissolved and Entrained Gases

1. Total Released	Ci	7.34 E-02	1.56 E-01	6.64 E-02	2.96 E-01	1.50E+01
2. Average diluted concentration during period*	uCi/ml	8.14 E-09	4.62 E-08	2.34 E-08	1.95 E-08	

D. Gross Alpha Radioactivity

1. Total Released	Ci	$\leq 6.12 \text{ E-}05$	$\leq 3.32 \text{ E-}05$	$\leq 8.60 \text{ E-}05$	-----	1.50E+01
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* During periods of actual release.

E. Volume of waste re-leased(Prior to dilution)	liters	1.34 E+06	6.03 E+05	2.15 E+06	4.09 E+06	1.00E+01
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F. Volume of dilution water used during period	liters	1.65 E+11	1.76 E+11	1.33 E+11	4.74 E+11	1.00E+01
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TABLE 2.1-1 (Continued)
MILLSTONE NUCLEAR POWER STATION - UNIT No. 1

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

Year 1982

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	1.10 E-02	2.11 E-01	3.16 E-01	5.38 E-01	1.50E+01
2. Average diluted concentration during period *	uCi/ml	2.32 E-07	9.47 E-08	8.68 E-08	9.09 E-08	
3. Percent of applicable limit **	%	---	---	---	0.41	

**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	1.21 E+00	4.78 E-01	3.92 E-01	2.08 E+00	1.50E+01
2. Average diluted concentration during period *	uCi/ml	2.55 E-06	2.17 E-07	1.08 E-07	3.51 E-07	

C. Dissolved and Entrained Gases

1. Total Released	Ci	$\leq 5.24 \text{ E-04}$	4.61 E-02	3.00 E-02	7.61 E-02	1.50E+01
2. Average diluted concentration during period *	uCi/ml	$\leq 1.10 \text{ E-08}$	2.07 E-08	8.25 E-09	1.29 E-08	

D. Gross Alpha Radioactivity

1. Total Released	Ci	$\leq 8.12 \text{ E-05}$	$\leq 6.72 \text{ E-05}$	1.11 E-04	1.11 E-04	1.50E+01
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* During periods of actual release.

Volume of waste released(Prior to dilution)	liters	2.03 E+06	1.12 E+06	5.55 E+05	3.71 E+06	1.00E+01
Volume of dilution water used during period	liters	9.62 E+10	1.31 E+11	1.53 E+11	3.81 E+11	1.00E+01