AIRBORNE RADIONUCLIDE PARTICULATES

Table 1 lists the composite radionuclide particulate values for the fourth quarter of 1980 and the first quarter of 1981. Second quarter values are not yet available due to the lengthy turn-around time involved by the commercial laboratory performing the analyses. Second quarter results will be included in the next effluent report. All values reported in Table 1 are considerably less than 10 CFR 20 limits.

RADON GAS

Table 2 summarizes radon gas values for the January - June report period. Both the average value and the highest observed value for each site is reported. All data are less than the 10 CFR 20 limit.



TABLE 1

RADIOMETRIC AIR PARTICULATES*

NINE MILE LAKE

FOURTH QUARTER, 1980 AND FIRST QUARTER, 1981

		_nCi/ml x 10 ⁻¹⁶	
Site	Uranium	Radium-226	Thorium-230
Control (4th quarter)	10.7	10.2 ± 10.7	10.4 ± 7.0
Control (1st quarter)	2.5	3.4 ± 6.4	4.9 ± 2.1
Downwind Boundary (4th quarter)	15.1	12.8 ± 18.5	7.4 ± 5.1
Downwind Boundary (1st quarter)	2.5	1.4 ± 7.2	5.3 ± 2.2
Downwind Site 6 (4th quarter)	3.4	4.4 ± 3.0	2.2 ± 1.7
Donwind Site 6 (1st quarter)	<0.9	1,4 2 6,5	3.4 ± 1.8
Downwind Site 7 (4th quarter)	5,0	1.0 ± 5.0	7.2 ± 1.8
Downwind Site 7 (1st quarter)	2.5	4.5 ± 7.8	6.0 ± 2.4
10 CFR 20 limits	5 x 10 ⁻¹²	3×10^{-12}	8.0×10^{-14}

*All samples collected with high-volume air samplers. The samples are run for 24 hours every six days. Ouarterly composites are prepared from filters for each wite.

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TABLE 2

KADON GAS* NINE MILE LAKE JAN - JUNE, 1981

Site	Radon-222 x 10 uCi/ml
Upwind Control (highest)	1.00
Upwind Control (average)	0.60
Downwind Boundary (highest)	0.72
Downwind Boundary (average)	0.42
Downwind Site 6 (highest)	0.64
Downwind Site 6 (average)	0.41
Downwind Site 7 (highest)	0.50
Downwind Site 7 (average)	0.25
10 CFR 20 limit	3.00

*Samples are taken once per month for a 48-hour period. Values reported are highest observed and average for the reporting period.

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