

TABLE 4

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
 NINE MILE POINT NUCLEAR STATION 1
 GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES
 ELEVATED AND GROUND LEVEL
 UPDATE OF JULY-DECEMBER 1990 DATA USING
 ACTUAL RESULTS FROM THE OFFSITE VENDORS FOR
 STRONTIUM, TRITIUM AND IRON-55
 AND
 CORRECTIONS TO NOVEMBER 1990 DATA

	<u>UNIT</u>	<u>3rd QUARTER</u>	<u>4th QUARTER</u>	<u>EST.TOTAL ERROR, %</u>
A. <u>Fission & Activation gases</u> ¹				
1. Total release	Ci	**	**	
2. Average release rate for period	uCi/sec			
3. Percent of Technical ² Specification Limit	%			
B. <u>Iodines</u>				
1. Total iodine	Ci	7.16E-05	8.99E-04	
2. Average release rate for period	uCi/sec	9.14E-06	1.13E-04	
3. Percent of Technical ² Specification Limit	%			
C. <u>Particulates</u> ¹				
1. Particulates with half- lives >8 days	Ci	1.56E-04	6.27E-04	3.0E+01
2. Average release rate for period	uCi/sec	1.96E-05	7.89E-05	
3. Percent of Technical ² Specification Limit	%			
4. Gross alpha radio- activity	Ci	7.89E-05	5.45E-04	
D. <u>Tritium</u> ¹				
1. Total release	Ci	6.00E+00	9.10E+00	2.5E+01
2. Average release rate for period	uCi/sec	1.36E-01	1.14E+00	
3. Percent of Technical ² Specification Limit	%			

¹ Concentrations less than the lower limit of detection of 1.00E-04 uCi/ml for Noble Gases, 1.00E-11 uCi/ml for particulates and 1.00E-12 uCi/ml for Iodines, as required by Technical Specifications are indicated with a double asterisk.

² Refer to E on next page.

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TABLE 4 (Continued)

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	<u>UNIT</u>	<u>3rd QUARTER</u>	<u>4th QUARTER</u>
<u>E. Percent of Technical Specification Limits (NMP-1 Elevated Release)</u>			
<u>Fission and Activation Gases:¹</u>			
1. Percent of Quarterly Gamma Air Dose Limit	%	**	**
2. Percent of Quarterly Beta Air Dose Limit	%	**	**
3. Percent of Annual Gamma Air Dose Limit to Date	%	**	**
4. Percent of Annual Beta Air Dose Limit to Date	%	**	**
5. Percent of Whole Body Dose Rate Limit	%	**	**
6. Percent of Skin Dose Rate Limit	%	**	**
<u>Tritium, Iodines and Particulates (with half-lives greater than 8 days):</u>			
1. Percent of Quarterly Dose Limit	%	4.19E-02	5.16E-01
2. Percent of Annual Dose Limit to Date	%	1.77E-01	3.20E-01
3. Percent of Organ Dose Rate Limit	%	8.45E-04	1.03E-02

¹ Concentrations less than the lower limit of detection of 1.00E-04 uCi/ml for Noble Gases as required by Technical Specifications are indicated with a double asterisk.



TABLE 4 (Continued)

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
 NINE MILE POINT NUCLEAR STATION 1
 GASEOUS EFFLUENTS-ELEVATED RELEASE
 ELEVATED AND GROUND LEVEL
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 CORRECTIONS TO NOVEMBER 1990 DATA

Nuclides Released	Unit	CONTINUOUS MODE ²	
		<u>3rd Quarter</u>	<u>4th Quarter</u>
1. <u>Fission Gases</u> ¹			
Argon-41	Ci	**	**
Krypton-85	Ci	**	**
Krypton-85m	Ci	**	**
Krypton-87	Ci	**	**
Krypton-88	Ci	**	**
Xenon-127	Ci	**	**
Xenon-133	Ci	**	**
Xenon-135	Ci	**	**
Xenon-135m	Ci	**	**
Xenon-137	Ci	**	**
Xenon-138	Ci	**	**
2. <u>Iodines</u> ¹			
Iodine-131	Ci	7.16E-05	8.99E-04
Iodine-133	Ci	2.08E-03	1.58E-02
Iodine-135	Ci	1.18E-04	1.80E-02
3. <u>Particulates</u> ¹			
Strontium-89	Ci	6.72E-05	2.28E-04
Strontium-90	Ci	1.91E-06	2.99E-06
Cesium-134	Ci	**	**
Cesium-137	Ci	**	1.23E-05
Cobalt-60	Ci	5.70E-07	2.12E-04
Cobalt-58	Ci	**	**
Manganese-54	Ci	**	**
Barium-Lanthanum-140	Ci	**	8.28E-05
Antimony-125	Ci	**	**
Niobium-95	Ci	**	**
Cerium-141	Ci	**	**
Cerium-144	Ci	**	**
Iron-59	Ci	**	**
Cesium-136	Ci	**	**
Chromium-51	Ci	**	**
Zinc-65	Ci	**	**
Iron-55	Ci	8.62E-05	8.91E-05
Molybdenum	Ci	**	**
4. <u>Tritium</u>	Ci	1.08E+00	2.61E+00

¹ Concentrations less than the lower limits of detection of 1.00E-04 uCi/ml for Noble Gases, 1.00E-11 uCi/ml for particulates and 1.00E-12 uCi/ml for Iodines, as required by Technical Specification are indicated with a double asterisk.

² No batch mode release occurred during the reporting period.

