72-1

January 25, 1999

Administrator, Region III
US Nuclear Regulatory Commission
801 Warrenville Road
Lisle, Il. 60532-4351

REF: 1. SNM-2500
2. Docket 72-1

Dear Mr. Dyer:

In compliance with 10CFR72.44(d)(3) and SNM-2500 license condition 8.2.1, this report documents our estimate of quantities of principal radionuclides released to the environment by GE Morris Operations in 1999. This report also provides an estimate of the maximum potential dose to the pubic resulting from GE Morris Operations effluents.

The only measurable particulate airborne radionuclide emitted by GE Morris Operation in 1999 was Cs-137 evaluated by measurement of stack monitor filters. Gaseous radionuclides evaluated are H-3 and Kr-85. The quantity of tritium released is evaluated by calculation using basin water evaporative losses while the amount of Kr-85 released is estimated conservatively using historical analytical results.

COMPLY (the EPA software program) was used to calculate the committed dose equivalent which results from the release of these radionuclides. The quantities released and the resultant maximum potential committed dose equivalent are shown in the following table.

NUCLIDE	AMOUNT RELEASED (Ci)	STACK CONCENTRATION (uCi/ml)	CEDE (mrem)
H-3	3.96E-2	1.97E-10	See Total Below
Kr-63	1.0	4.98E-9	See Total Below
Cs-137	3.18E-6	1.58E-14	See Total Below
Total Effective Dose Equivalent			**3.173E-06 mrem/year** (COMPLY)

There are no liquid effluents from the site. Therefore there were no measurable quantities of radionuclides released. However, trace quantities of tritium were found in the surface water, and on site wells.

The maximum potential committed dose equivalent to the public which could occur from water was found to be .0207 mrem - based on a person consuming water all year from the DM-7 well (450.25 pCi/L H-3).

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The maximum potential radiation dose commitment to the public resulting from effluent releases is the sum of the two doses given previously (3.173e-6 mrem/year plus .0207 mrem/year = **2.07E-2 mrem/year**).

Sincerely

RK Wright
Radiation Safety Officer

cc: Director, Office of Nuclear Material Safety and Safeguards
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