

January 18, 2001

MEMORANDUM TO: Marsha Gamberoni, Chief, Section 1
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

FROM: Timothy G. Colburn, Senior Project Manager, Section 1 */RA/*
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

SUBJECT: THREE MILE ISLAND NUCLEAR STATION, UNIT 1 (TMI-1) –
REVISED UPDATED FINAL SAFETY ANALYSIS REPORT (UFSAR)
STEAM GENERATOR TUBE FAILURE ACCIDENT ANALYSIS DOSE
CONSEQUENCE (TAC NO. MA9774)

The staff held a conference call with the TMI-1 licensee on December 20, 2000, to request some clarifying information relating to the licensee's August 9, 2000, application for license amendment requesting approval of a revised UFSAR steam generator tube failure accident analysis dose consequence. The licensee discovered that it had previously failed to include in its assumptions, a postulated post-accident release pathway through the main steam safety valves (MSSVs). The licensee's analysis determined that following a reactor trip and turbine trip, the MSSVs will lift for about 2 minutes. The dose from this release was not considered in the previous UFSAR accident analysis. The licensee reanalyzed the dose consequence from this accident and included the MSSV release. The licensee's amendment request is for approval of the increased dose consequence resulting from the revised accident analysis.

The staff requested that the licensee provide information on the total amount of steam released through the MSSVs during this 2-minute period, and the iodine and noble gas concentrations in the main steam assumed by the licensee in its dose calculations. The licensee provided the attached e-mail with the requested information on December 22, 2000. The staff considered the licensee's information in performing its confirmatory calculations of the dose consequence during its review of the licensee's application. This memo documents the information received by the licensee.

Docket No. 50-289

Attachment: As stated

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NAME	TColburn	MO'Brien	MGamberoni	
DATE	01/17/ 01	01/18/01	01/18/01	

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ISOTOPE	STEAM ACTIVITY (uCi/g)
KR-83M	4.58E-05
KR-85M	2.10E-04
KR-85	8.42E-04
KR-87	1.11E-04
KR-88	3.41E-04
XE-131M	2.31E-04
XE-133M	3.64E-04
XE-133	3.38E-02
XE-135M	4.19E-05
XE-135	7.23E-04
XE-138	5.97E-05
I-131	5.31E-04
I-132	1.78E-04
I-133	5.64E-04
I-134	6.98E-05
I-135	2.86E-04

ISOTOPE	RCS ACTIVITY (uCi/g)
KR-83M	5.30E-01
KR-85M	2.43E+00
KR-85	9.75E+00
KR-87	1.28E+00
KR-88	3.95E+00
XE-131M	2.68E+00
XE-133M	4.22E+00
XE-133	3.92E+02
XE-135M	4.85E-01
XE-135	8.37E+00
XE-138	6.92E-01
I-131	5.71E+00
I-132	1.92E+00
I-133	6.07E+00
I-134	7.57E-01
I-135	3.08E+00