

December 12, 2001

Mr. Mark E. Warner  
Vice President - TMI Unit 1  
AmerGen Energy Company, LLC  
P.O. Box 480  
Middletown, PA 17057

SUBJECT: THREE MILE ISLAND NUCLEAR STATION, UNIT 1 (TMI-1) - REQUEST FOR  
ADDITIONAL INFORMATION (TAC NO. MB3163)

Dear Mr. Warner:

Your letter of August 22, 2001, responding to the U. S. Nuclear Regulatory Commission's (NRC's) request for additional information related to License Amendment Request No. 249, identified that for a few fuel assemblies, the peak rod average power would exceed the 6.3 kw/ft (kilowatts per foot) specified in Regulatory Guide (RG) 1.183, Section 3.2, Table 3, footnote 11 for a few days at the end of TMI-1 Operating Cycles 13 and 14. You indicated that you had performed a bounding assessment of the affect of this condition and concluded that the calculated doses remain well within the limit specified in RG 1.183 and Title 10 of the *Code of Federal Regulations* (10 CFR), Section 50.67. In performing our confirmatory assessment of the affect of this condition on your calculated dose assessment, we have determined that we will need the following information.

Provide gap release fractions estimated for the fuel assemblies exceeding 54 GWD/MTU (gigawatt days per metric ton uranium) burnup and 6.3 kw/ft linear heat generation rate. You may use the simplified method provided in ANSI/ANS Standard 5.4, "Method for Calculating the Fractional Release of Volatile Fission Products from Oxide Fuel," to estimate the worst release fractions using the equilibrium equation given in the standard. An equilibrium release fraction is calculated using the peak fuel rod average temperature plus 200 degrees F at a conservative linear heat generation rate.

We request that you provide the information within 30 days of receipt of this letter. This question was discussed with your staff during a conference call on December 5, 2001. If you have any questions, please contact me at (301) 415-1402.

Sincerely,

/RA/

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

Docket No. 50-289

cc w/encl: See next page

December 12, 2001

Mr. Mark E. Warner  
Vice President - TMI Unit 1  
AmerGen Energy Company, LLC  
P.O. Box 480  
Middletown, PA 17057

SUBJECT: THREE MILE ISLAND NUCLEAR STATION, UNIT 1 (TMI-1) - REQUEST FOR  
ADDITIONAL INFORMATION (TAC NO. MB3163)

Dear Mr. Warner:

Your letter of August 22, 2001, responding to the U. S. Nuclear Regulatory Commission's (NRC's) request for additional information related to License Amendment Request No. 249, identified that for a few fuel assemblies, the peak rod average power would exceed the 6.3 kw/ft (kilowatts per foot) specified in Regulatory Guide (RG) 1.183, Section 3.2, Table 3, footnote 11 for a few days at the end of TMI-1 Operating Cycles 13 and 14. You indicated that you had performed a bounding assessment of the affect of this condition and concluded that the calculated doses remain well within the limit specified in RG 1.183 and Title 10 of the *Code of Federal Regulations* (10 CFR), Section 50.67. In performing our confirmatory assessment of the affect of this condition on your calculated dose assessment, we have determined that we will need the following information.

Provide gap release fractions estimated for the fuel assemblies exceeding 54 GWD/MTU (gigawatt days per metric ton uranium) burnup and 6.3 kw/ft linear heat generation rate. You may use the simplified method provided in ANSI/ANS Standard 5.4, "Method for Calculating the Fractional Release of Volatile Fission Products from Oxide Fuel," to estimate the worst release fractions using the equilibrium equation given in the standard. An equilibrium release fraction is calculated using the peak fuel rod average temperature plus 200 degrees F at a conservative linear heat generation rate.

We request that you provide the information within 30 days of receipt of this letter. This question was discussed with your staff during a conference call on December 5, 2001. If you have any questions, please contact me at (301) 415-1402.

Sincerely,

/RA/

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

Docket No. 50-289

cc w/encl: See next page

DISTRIBUTION:

PUBLIC	MO'Brien	JLee	OGC	EAdensam
ACRS	TColburn	LRaghavan	PDI-1 R/F	B. Platchek, RI

Accession No. ML013410313

OFFICE	PDI-1\PM	PDI-2\LA	PDI-1\SC(A)	SPSB\SC
NAME	TColburn	MO'Brien	LRaghavan	MReinhart
DATE	12/11/01	12/11/01	12/12/01	12/12/01

OFFICIAL RECORD COPY

Three Mile Island Nuclear Station, Unit No. 1

cc:

George H. Gellrich  
Plant Manager  
AmerGen Energy Company, LLC  
P. O. Box 480  
Middletown, PA 17057

Michael P. Gallagher  
Director - Licensing  
Exelon Generation Company, LLC  
Nuclear Group Headquarters  
Correspondence Control  
P.O. Box 160  
Kennett Square, PA 19348

James J. McElwain  
Manager - Regulatory Assurance  
TMI Unit 1  
AmerGen Energy Company, LLC  
P.O. Box 480  
Middletown, PA 17057

Edward J. Cullen, Jr.  
Vice President and General Counsel  
Exelon Generation Company, LLC  
300 Exelon Way  
KSB 3-W  
Kennett Square, PA 19348

Jeffrey A. Benjamin  
Vice President -  
Licensing and Regulatory Affairs  
Exelon Generating Company, LLC  
4300 Winfield Road  
Warrenville, IL 60555

Chairman  
Board of County Commissioners  
of Dauphin County  
Dauphin County Courthouse  
Harrisburg, PA 17120

Chairman  
Board of Supervisors  
of Londonderry Township  
R.D. #1, Geyers Church Road  
Middletown, PA 17057

Senior Resident Inspector (TMI-1)  
U.S. Nuclear Regulatory Commission  
P.O. Box 219  
Middletown, PA 17057

Regional Administrator  
Region I  
U.S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406

Michael A. Schoppman  
Framatome ANP  
Suite 705  
1911 North Ft. Myer Drive  
Rosslyn, VA 22209

David J. Allard, Director  
Bureau of Radiation Protection  
Pennsylvania Department of  
Environmental Resources  
P.O. Box 2063  
Harrisburg, PA 17120

Dr. Judith Johnsrud  
National Energy Committee  
Sierra Club  
433 Orlando Avenue  
State College, PA 16803

John F. Rogge, Region I  
U.S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406

Eric Epstein  
TMI Alert  
4100 Hillsdale Road  
Harrisburg, PA 17112