

Exelon Nuclear
200 Exelon Way
Kennett Square, PA 19348

www.exeloncorp.com

10 CFR 50.46 (a)(3)(i) and (ii)

December 16, 2003

U. S. Nuclear Regulatory Commission
Attn.: Document Control Desk
Washington, DC 20555

Limerick Generating Station, Units 1 and 2
Facility Operating License Nos. NPF-39 and NPF-85
NRC Docket Nos. 50-352 and 50-353

Subject: 10 CFR 50.46 Reporting Requirements

In accordance with 10 CFR 50.46 (a)(3)(i) and (ii), the following is a revision to the licensing basis Loss-of-Coolant Accident (LOCA) peak clad temperatures (PCTs) for Limerick Generating Station (LGS), Units 1 and 2. Table 1 (attached) provides the revised licensing basis PCT values and the prior PCT error accumulation changes for LGS, Unit 1; Table 2 (attached) provides the revised licensing basis PCT values and the prior PCT accumulations for LGS, Unit 2.

Exelon Generation Company, LLC (Exelon) received a 10 CFR 50.46 notification letter from Global Nuclear Fuel (GNF) ("Impact of SAFER Level/Volme Table Error on the Peak Cladding Temperature (PCT)"), which informed us of a PCT impact due to an error in the construction of a code input for the initial level/volume table for SAFER. The error results in an incorrect volume split in the nodes above and below the water surface, and incorrect initial liquid mass. The total volume in the vessel was correct. The correction of the error results in an estimated decrease in the licensing basis PCT of 5°F for the GE11/13 and GE14 fuel types. The error did not impact the pre-GE11 fuel types.

The attached tables provide, by fuel type, the baseline PCTs, the prior PCT error accumulations, and the resultant estimated licensing basis PCTs for the limiting and non-limiting fuel types. The estimated licensing basis peak clad temperature for the most limiting fuel type at LGS, Unit 1 (GE14) decreases to 1675°F. The licensing basis PCT for the most

A001

limiting fuel type at LGS, Unit 2 (GE14) also decreases to 1675°F. The licensing basis PCT for both units has more than 500°F margin to the 2200°F limit specified in 10 CFR 50.46. Therefore, no additional action is required.

If you have any questions, please do not hesitate to contact us.

Very truly yours,

A handwritten signature in black ink, appearing to read "Michael P. Gallagher". The signature is fluid and cursive, with a long horizontal stroke at the end.

Michael P. Gallagher
Director, Licensing and Regulatory Affairs

Attachments

cc: H. J. Miller, Administrator, Region I, USNRC
A. L. Burritt, USNRC Senior Resident Inspector, LGS
S. Wall, Project Manager, USNRC

TABLE 1

**CURRENT BASELINE PCT (°F) VALUES AND ERROR ACCUMULATION
LIMERICK GENERATING STATION, UNIT 1**

	P8x8R	GE8	GE9	GE 11/13	GE14
BASELINE PCT	1625	1515	1515	1605	1670
Prior PCT Error Accumulation	5	15	45	35	10
50.46 Notification SAFER Level/Volume Table Error	0	0	0	-5	-5
TOTAL	5	15	45	30	5
NEW ESTIMATED LICENSING BASIS PCT VALUES	1630	1530	1560	1635	1675

TABLE 2

**CURRENT BASELINE PCT (°F) VALUES AND ERROR ACCUMULATION
LIMERICK GENERATING STATION, UNIT 2**

	P8x8R	GE8	GE9	GE 11/13	GE14
BASELINE PCT	1625	1515	1515	1605	1670
Prior PCT Error Accumulation	5	15	45	35	10
50.46 Notification SAFER Level/Volume Table Error	0	0	0	-5	-5
TOTAL	5	15	45	30	5
NEW ESTIMATED LICENSING BASIS PCT VALUES	1630	1530	1560	1635	1675