

January 6, 2004

Mr. William R. Kanda
Vice President - Nuclear
FirstEnergy Nuclear Operating Company
10 Center Road
P.O. Box 97
Perry, OH 44081

SUBJECT: PERRY NUCLEAR POWER PLANT - REQUEST FOR ADDITIONAL
INFORMATION FOR LICENSE AMENDMENT REQUEST, INCREASE IN MAIN
STEAMLINE TURBINE BUILDING HIGH TEMPERATURE TRIP SETPOINT
ALLOWABLE VALUE (TAC. NO. MC0342)

Dear Mr. Kanda:

By letter dated August 14, 2003, FirstEnergy Nuclear Operating Company, requested approval of a license amendment request (LAR) for the Perry Nuclear Power Plant (PNPP). The proposed LAR increases the analytical limit and the resulting Technical Specification Allowable Value (AV) related to the setpoint for the main steamline turbine building temperature – high, system isolation function.

During the review, the Nuclear Regulatory Commission staff has identified that additional information is needed in order to complete the review. Specific questions are presented in the enclosed request for additional information (RAI).

The enclosed questions have already been discussed with your staff. In order to accommodate PNPP's needs, please respond to this RAI by January 31, 2004. If you have any questions concerning our review, or additional time is needed to respond to the RAI, please contact me at (301) 415-3154.

Sincerely,

/RA/

Stephen P. Sands, Project Manager, Section 2
Project Directorate III
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-440

Enclosure: Request for Additional Information

cc w/encl: See next page

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| NAME | SSands | THarris | DPickett for AMendiola |
| DATE | 01/06/04 | 01/05/04 | 01/06/04 |

OFFICIAL RECORD COPY

Perry Nuclear Power Plant, Unit 1

cc:

Mary E. O'Reilly
FirstEnergy Corporation
76 South Main St.
Akron, OH 44308

Resident Inspector's Office
U.S. Nuclear Regulatory Commission
P.O. Box 331
Perry, OH 44081-0331

Regional Administrator, Region III
U.S. Nuclear Regulatory Commission
801 Warrenville Road
Lisle, IL 60532-4531

Sue Hiatt
OCRE Interim Representative
8275 Munson
Mentor, OH 44060

Mr. Vernon K. Higaki
Manager - Regulatory Affairs
FirstEnergy Nuclear Operating Company
Perry Nuclear Power Plant
P.O. Box 97, A210
10 Center Road
Perry, OH 44081

Timothy Rausch, Plant Manager
FirstEnergy Nuclear Operating Company
Perry Nuclear Power Plant
P.O. Box 97, SB306
Perry, OH 44081

Mayor, Village of North Perry
North Perry Village Hall
4778 Lockwood Road
North Perry Village, OH 44081

Donna Owens, Director
Ohio Department of Commerce
Division of Industrial Compliance
Bureau of Operations & Maintenance
6606 Tussing Road
P. O. Box 4009
Reynoldsburg, OH 43068-9009

Carol O'Claire, Chief, Radiological Branch

Ohio Emergency Management Agency
2855 West Dublin Granville Road
Columbus, OH 43235-7150

Mayor, Village of Perry
P.O. Box 100
Perry, OH 44081-0100

Dennis Clum
Radiological Assistance Section Supervisor
Bureau of Radiation Protection
Ohio Department of Health
P.O. Box 118
Columbus, OH 43266-0118

Zack A. Clayton
DERR
Ohio Environmental Protection Agency
ATTN: Mr. Zack A. Clayton
P.O. Box 1049
Columbus, OH 43266-0149

Chairman
Perry Township Board of Trustees
3750 Center Road, Box 65
Perry, OH 44081

Daniel Z. Fisher
Transportation Department
Public Utilities Commission
180 East Broad Street
Columbus, OH 43215-3793

REQUEST FOR ADDITIONAL INFORMATION

PERRY NUCLEAR POWER PLANT (PNPP)

INCREASE IN MAIN STEAMLINER TURBINE BUILDING HIGH TEMPERATURE TRIP

SETPOINT ALLOWABLE VALUE

The Nuclear Regulatory Commission (NRC) staff has reviewed the August 14, 2003, FirstEnergy Nuclear Operating Company submittal regarding changes to the Perry Nuclear Power Plant license amendment request to increase the main steamline turbine building high temperature – high, system isolation valve, and has the following questions concerning the submittal:

- (1) Provide a description of the GOTHIC nodal model (include the GOTHIC version number) used to model the building (volumes, flow paths, active heat removal systems and heat structures, and their initial conditions). Identify the model used for the break flow, the model(s) used for heat transfer to structures, and the model used for flow between volumes. If the GOTHIC “jet breakup model” is used provide justification to supports its use for this application.
- (2) Provide a benchmark of the GOTHIC model to the current COMPARE model, using GOTHIC models which closely resemble COMPARE.
- (3) Provide electronic copy(ies) of the GOTHIC input deck(s) (*.GTH) for the model used for the license amendment request (LAR). The staff may perform independent, confirmatory analyses with the CONTAIN 2.0 code. In addition, please provide the full description of the nodal models and the GOTHIC models used in the input deck for the LAR.

ENCLOSURE