

May 3, 2007

Mr. L. W. Pearce  
Site Vice President  
FirstEnergy Nuclear Operating Company  
Perry Nuclear Power Plant  
Mail Stop A-PY-A290  
P.O. Box 97, 10 Center Road  
Perry, OH 44081-0097

SUBJECT: NRC RECEIPT OF PERRY NUCLEAR POWER PLANT, UNIT NO. 1,  
RESPONSES TO GENERIC LETTER 2003-01, "CONTROL ROOM  
HABITABILITY" (TAC NO. MB9839)

Dear Mr. Pearce:

The Nuclear Regulatory Commission (NRC) acknowledges the receipt of your responses to Generic Letter (GL) 2003-01, "Control Room Habitability," dated August 11, 2003 (Agencywide Documents and Access Management System (ADAMS) Accession No. ML032320295); May 30, 2006 (ADAMS Accession No. ML061580074); and March 20, 2007 (ADAMS Accession No. ML070860220) for the Perry Nuclear Power Plant (PNPP), Unit No. 1. This letter provides a status of your responses and describes any actions that may be necessary to consider your responses to GL 2003-01 complete.

The GL requested that you confirm that your control rooms meet their design bases (e.g., General Design Criteria (GDC) 1, 3, 4, 5, and 19, draft GDC, or principal design criteria), with special attention to: (1) determination of the most limiting unfiltered and/or filtered inleakage into the control room and comparison to values used in your design bases for meeting control room operator dose limits from accidents (GL 2003-01, Item 1a); (2) determination that the most limiting unfiltered inleakage is incorporated into your hazardous chemical assessments (GL 2003-01, Item 1b); and, (3) determination that reactor control capability is maintained in the control room or at the alternate shutdown location in the event of smoke (GL 2003-01, Item 1b). GL 2003-01 further requested information on any compensatory measures in use to demonstrate control room habitability, and plans to retire them (GL 2003-01, Item 2).

By letter dated May 30, 2006, you reported the following results of the American Society for Testing and Materials E741, "Standard Test Method for Determining Air Change in a Single Zone by Means of a Tracer Gas Dilution" tracer gas tests for the PNPP control room, which is maintained at a neutral pressure and is not pressurized for accident mitigation:

You determined that the tested value for inleakage into the control room envelope (CRE), was 257 (+/- 15) cubic feet per minute (cfm), which is less than the value of 1375 cfm assumed in the current design basis radiological analyses for control room habitability (CRH).

You indicated that the CRH analyses for hazardous chemicals stored or transported onsite or near the plant do not credit isolation of the normal control room ventilation system. For

chemical calculations that require an assumption for unfiltered air inlet flow rate, the control room heating, ventilation, and air conditioning system intake flow rate assumed is much greater than the 1375 cfm unfiltered inleakage value in the loss of coolant accident radiological calculations. You stated that oxygen monitors alarm if carbon dioxide is released from the control room subfloor fire protection system. No other hazardous chemicals stored or transported onsite or near PNPP are considered a threat based on hazard evaluations performed per Regulatory Guide (RG) 1.78, Revision 0, Standard Review Plan NUREG-0800 Section 2.2.3, and NUREG/CR-2650, dated October 1982. You also indicated that reactor control capability is maintained from either the control room or the remote shutdown controls in the event of smoke.

GL 2003-01 further requested that you assess your technical specifications (TSs) to determine if you verify the integrity of the CRE, including ongoing verification of the inleakage assumed in the design-basis analysis for control room habitability, (GL 2003-01, Item 1c). In your May 30, 2006, response, you indicated that you do not have a TS surveillance requirement for CRE integrity and that you would evaluate the final version of TS Task Force Traveler No. 448 (TSTF-448), "Control Room Habitability." You also stated that, based on the results of that evaluation, modifications to your TSs would be requested based on TSTF-448, or an appropriate alternative program would be implemented, including periodic tracer gas testing and control room integrity assessments. In your March 20, 2007, response you indicated that you would submit a license amendment request (LAR) to adopt TSTF-448. You further stated that you anticipated submitting the associated LAR in the third quarter of 2007.

The information you provided also supported the fact that there are no compensatory measures needed to be in place to demonstrate control room habitability.

The information you provided also supported the conclusion that you are committed to meet the GDC regarding control room habitability.

The information provided above, and your commitment to submit a LAR based on TSTF-448 is acceptable for purposes of closing out your responses to GL 2003-01.

If you have any questions regarding this correspondence, please contact me at (301) 415-4037.

Sincerely,

*/RA/*

Thomas J. Wengert, Project Manager  
Plant Licensing Branch III-2  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-440

cc: See next page

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NRR-106

OFFICE	LPL3-2/PM	LPL3-2/LA	SCVB/BC	PGCB/BC	LPL3-2/BC
NAME	TWengert:mw	EWhitt	RDennig	CJackson	RGibbs
DATE	4/23/2007	4/23/2007	5/1/2007	4/24/2007	5/3/2007

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