

October 19, 2006

Mr. Christopher M. Crane
President and Chief Executive Officer
AmerGen Energy Company, LLC
Clinton Power Station
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: NRC RECEIPT OF CLINTON POWER STATION, UNIT 1 - RESPONSES TO
GENERIC LETTER 2003-01, "CONTROL ROOM HABITABILITY"
(TAC NO. MB9788)

Dear Mr. Crane:

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 Access and Management System (ADAMS) Accession No. ML032310390); December 9, 2003 (ADAMS Accession No. ML033560302); March 19, 2004 (ADAMS Accession No. ML040890545); November 29, 2004 (ADAMS Accession No. ML043420211); February 8, 2005 (ADAMS Accession No. ML050560210); and July 11, 2005 (ADAMS Accession No. ML051920406) for the Clinton Power Station, Unit 1 (Clinton). This letter provides a status of your responses and describes any actions that may be required to consider your responses to GL 2003-01 complete.

The GL 2003-01 requested that you confirm that your control rooms meet their design bases (e.g., General Design Criterion (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; 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 February 8, 2005, the results of American Society for Testing and Materials E741, "Standard Test Method for Determining Air Change in a Single Zone by Means of a Tracers Gas Dilution," tracer gas tests for the Clinton control room were reported. The maximum measured tested value for filtered inleakage was reported as 310 +/- 157 square cubic feet per minute (scfm) which is less than the value of 650 cubic feet per minute (cfm) assumed in the existing design basis for filtered CRE inleakage. Also, the maximum measured tested value for unfiltered inleakage was reported as 0 scfm which is less than the value of 10 cfm assumed in the existing design basis for unfiltered control room enclosure (CRE) inleakage.

Based on your evaluation, toxic gas protection of the CRE is not a concern and no toxic gas detectors are required for Clinton. Therefore, inleakage testing specifically for toxic gas is not required. Also based on your evaluation, the reactor control capability is maintained from either the control room or the alternate shutdown panel in the event of smoke.

GL 2003-01 further requested that you assess your technical specifications (TS) to determine if they verify the integrity of the CRE, including ongoing verification of the inleakage assumed in the design-basis analysis for control room habitability, and in light of the demonstrated inadequacy of a delta (Δ) P measurement to alone provide such verification (GL 2003-01, Item 1.c).

In your July 11, 2005, response you withdrew your previous license amendment request (LAR) for administrative controls and indicated that you would evaluate your submittal with respect to the elements contained in Technical Specification Task Force Traveler No. 448 (TSTF-448), "Control Room Habitability," and resubmit a proposed LAR based on that evaluation. As permitted by GL 2003-01, you provided a schedule for revising the surveillance requirement in the TS to reference an acceptable surveillance methodology. Your schedule for resubmitting the LAR is within 90 days of NRC approval of TSTF-448.

The information you provided supported the conclusion that the unit is required to meet the GDC regarding control room habitability. Additionally, the information provided supported the fact that no compensatory measures are in place to demonstrate control room habitability.

Your commitment to submit a proposed LAR based on TSTF-448, following our formal review and approval, is acceptable for purposes of closing out your responses to GL 2003-01. The NRC staff will monitor submission of the proposed LAR and interact with you as necessary during the amendment process.

If you have any questions regarding this correspondence, please contact me at (301) 415-3154.

Sincerely,

/RA/

Stephen P. Sands, Project Manager
Plant Licensing Branch III-2
Division of Operation Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-461

cc: See next page

Based on your evaluation, toxic gas protection of the CRE is not a concern and no toxic gas detectors are required for Clinton. Therefore, inleakage testing specifically for toxic gas is not required. Also based on your evaluation, the reactor control capability is maintained from either the control room or the alternate shutdown panel in the event of smoke.

GL 2003-01 further requested that you assess your technical specifications (TS) to determine if they verify the integrity of the CRE, including ongoing verification of the inleakage assumed in the design-basis analysis for control room habitability, and in light of the demonstrated inadequacy of a delta (Δ) P measurement to alone provide such verification (GL 2003-01, Item 1.c).

In your July 11, 2005, response you withdrew your previous license amendment request (LAR) for administrative controls and indicated that you would evaluate your submittal with respect to the elements contained in Technical Specification Task Force Traveler No. 448 (TSTF-448), "Control Room Habitability," and resubmit a proposed LAR based on that evaluation. As permitted by GL 2003-01, you provided a schedule for revising the surveillance requirement in the TS to reference an acceptable surveillance methodology. Your schedule for resubmitting the LAR is within 90 days of NRC approval of TSTF-448.

The information you provided supported the conclusion that the unit is required to meet the GDC regarding control room habitability. Additionally, the information provided supported the fact that no compensatory measures are in place to demonstrate control room habitability.

Your commitment to submit a proposed LAR based on TSTF-448, following our formal review and approval, is acceptable for purposes of closing out your responses to GL 2003-01. The NRC staff will monitor submission of the proposed LAR and interact with you as necessary during the amendment process.

If you have any questions regarding this correspondence, please contact me at (301) 415-3154.

Sincerely,
/RA/
 Stephen P. Sands, Project Manager
 Plant Licensing Branch III-2
 Division of Operation Reactor Licensing
 Office of Nuclear Reactor Regulation

Docket No. 50-461

cc: See next page

DISTRIBUTION:

PUBLIC	LPL3-2 R/F	RidsAcrcAcnwMailCenter
RidsOgcRp	RidsNrrLADClarke	RidsNrrPMSSands
RidsNrrRgn3MailCenter	RidsNrrDorlDpr	RidsNrrDorlLpl3-2
RidsAcrcAcnwMailCenter	RidsNrrDprPgcb	RidsNrrDssScvb

ADAMS Accession No: ML062420273 *w/comment NRR-106

OFFICE	LPL3-2/PM	LPL3-/LA*	SCVB/BC*	PGCB/BC*	LPL3-2/BC
NAME	SSands:mw	DClarke	RDennig	CJackson	DCollins
DATE	10/19/2006	10/18/2006	10/2/2006	10/6/2006	10/19/2006

OFFICIAL RECORD COPY

Clinton Power Station, Unit 1

cc:

Senior Vice President - Operations Support
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

Illinois Emergency Management
Agency
Division of Disaster Assistance &
Preparedness
110 East Adams Street
Springfield, IL 62701-1109

Director - Licensing and Regulatory Affairs
AmerGen Energy Company, LLC
4300 Winfield Road
Warrenville, IL 60555

Manager Licensing - Quad Cities
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

Manager Regulatory Assurance - Clinton
AmerGen Energy Company, LLC
Clinton Power Station
RR3, Box 228
Clinton, IL 61727-9351

Vice President - Regulatory & Legal Affairs
AmerGen Energy Company, LLC
4300 Winfield Road
Warrenville, IL 60555

Document Control Desk - Licensing
AmerGen Energy Company, LLC
4300 Winfield Road
Warrenville, IL 60555

Site Vice President - Clinton Power Station
AmerGen Energy Company, LLC
Clinton Power Station
RR 3, Box 228
Clinton, IL 61727-9351

Plant Manager - Clinton Power Station
AmerGen Energy Company, LLC
Clinton Power Station
RR 3, Box 228
Clinton, IL 61727-9351

Senior Vice President - Midwest Operations
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

Resident Inspector
U.S. Nuclear Regulatory Commission
RR #3, Box 229A
Clinton, IL 61727

Regional Administrator, Region III
U.S. Nuclear Regulatory Commission
Suite 210
2443 Warrenville Road
Lisle, IL 60532-4351

Assistant General Counsel
Exelon Generation Company, LLC
200 Exelon Way
Kennett Square, PA 19348

Chairman of DeWitt County
c/o County Clerk's Office
DeWitt County Courthouse
Clinton, IL 61727

J. W. Blattner
Project Manager
Sargent & Lundy Engineers
55 East Monroe Street
Chicago, IL 60603