



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

March 24, 2011

Mr. Michael J. Pacilio
President and Chief Nuclear Officer
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: CLINTON POWER STATION, UNIT NO. 1 - REQUEST FOR ADDITIONAL INFORMATION RELATED TO LICENSE AMENDMENT REQUEST TO REVISE TECHNICAL SPECIFICATIONS LIMITING CONDITION FOR OPERATION 3.7.6 "MAIN TURBINE BYPASS SYSTEM" (TAC NO. ME4771)

Dear Mr. Pacilio:

By letter to the Nuclear Regulatory Commission (NRC) dated September 23, 2010, Exelon Generation Company, LLC submitted a request to revise Technical Specifications Limiting Condition for Operation 3.7.6, "Main Turbine Bypass System," for the Clinton Power Station, Unit No. 1.

The NRC staff is reviewing your submittals, and has determined that additional information is required to complete its review. The specific information requested is addressed in the enclosure to this letter. During a discussion with your staff on March 7, 2011, it was agreed that you would provide a response within 30 days from the date of this letter.

Please note that if you do not respond to this letter by the agreed-upon date or provide an acceptable alternate date in writing, we may reject your request for approval under the provisions of 10 CFR 2.108.

The NRC staff considers that timely responses to requests for additional information help ensure that sufficient time is available for the NRC staff to review and contribute toward the NRC's goal of efficient and effective use of staff resources. If circumstances result in the need to revise the requested response date, please contact me at (301) 415-1115.

Sincerely,

A handwritten signature in black ink, appearing to read "Nicholas J. DiFrancesco", with a long horizontal flourish extending to the right.

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

Docket No. 50-461

Enclosure: Request for Additional Information
cc w/encl: Distribution via Listserv

REQUEST FOR ADDITIONAL INFORMATION
REGARDING REVISIONS TO TECHNICAL SPECIFICATIONS
FOR MAIN TURBINE BYPASS SYSTEM
CLINTON POWER STATION, UNIT NO. 1
DOCKET NO. 50-461

In reviewing the Exelon Generation Company's (Exelon's) submittal dated September 23, 2010, related to a request to revise Technical Specifications [TS] Limiting Condition for Operation 3.7.6, "Main Turbine Bypass System [MTBS]", for the Clinton Power Station (Clinton), Unit No. 1, the Nuclear Regulatory Commission (NRC) staff has determined that the following information is needed in order to complete its review:

1. Section 5 of Attachment 5 to the licensee's letter of September 23, 2010, discusses the results of the analysis of the following events: (1) the feedwater controller failure, (2) rod withdrawal error, (3) loss of feedwater heating, and (4) slow recirculation flow increase.
 - a. Discuss the methods and computer codes used in the analysis for each of the above referred events, verify that the methods and codes used were previously approved by the NRC, and address compliance with restrictions and conditions specified in the NRC safety evaluation report approving the methods and codes.
 - b. Provide information to show the interfaces (inputs and outputs) of PANAC, ISCOR, ODYN, and TASC used in the calculation of the MCPR and LHGR for the analysis of the feedwater controllers failure events.
 - c. Discuss the plant parameters considered in the analysis, identify the major input initial conditions and the worst single-failure used in the analysis, discuss the bases used to select the numerical parameters and demonstrate that the numerical values with consideration of the uncertainties and fluctuations around the nominal values are conservative, resulting in minimum margins to the Minimum Critical Power Ratio (MCPR) and Linear Heat Generation Rate (LHGR) safety limits.
2. NRC Generic Letter (GL) 88-16, "Removal of Cycle-Specific Parameter Limits From Technical Specifications," dated October 3, 1988, allows licensees to include the cycle specific parameters (i.e., MCPR, LHGR, and APLHGR etc.) in the core operating limits report (COLR), provided the changes in the parameters are determined using an NRC-approved methodology and consistent with all applicable limits of the analysis of record. Please affirm that the COLR will provide the limits and penalties to compensate for the inoperability of the MTBS and included the NRC-approved topical reports with applicable revision number.

March 24, 2011

Mr. Michael J. Pacilio
President and Chief Nuclear Officer
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: CLINTON POWER STATION, UNIT NO. 1 - REQUEST FOR ADDITIONAL INFORMATION RELATED TO LICENSE AMENDMENT REQUEST TO REVISE TECHNICAL SPECIFICATIONS LIMITING CONDITION FOR OPERATION 3.7.6 'MAIN TURBINE BYPASS SYSTEM' (TAC NO. ME4771)

Dear Mr. Pacilio:

By letter to the Nuclear Regulatory Commission (NRC) dated September 23, 2010, Exelon Generation Company, LLC submitted a request to revise Technical Specifications Limiting Condition for Operation 3.7.6, "Main Turbine Bypass System," for the Clinton Power Station, Unit No. 1.

The NRC staff is reviewing your submittals, and has determined that additional information is required to complete its review. The specific information requested is addressed in the enclosure to this letter. During a discussion with your staff on March 7, 2011, it was agreed that you would provide a response within 30 days from the date of this letter.

Please note that if you do not respond to this letter by the agreed-upon date or provide an acceptable alternate date in writing, we may reject your request for approval under the provisions of 10 CFR 2.108.

The NRC staff considers that timely responses to requests for additional information help ensure that sufficient time is available for the NRC staff to review and contribute toward the NRC's goal of efficient and effective use of staff resources. If circumstances result in the need to revise the requested response date, please contact me at (301) 415-1115.

Sincerely,

/RA/

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

Docket No. 50-461

Enclosure: Request for Additional Information

cc w/encl: Distribution via Listserv

DISTRIBUTION:

PUBLIC RidsNrrPMClinton Resource RidsRgn3MailCenter Resource
LPL3-2 R/F RidsAcrsAcnw_MailCenter Resource
RidsNrrDorLpI3-2 Resource RidsNrrDorIDpr Resource
RidsNrrLASRohrer Resource RidsOgcRp Resource
ADAMS Accession No. ML110680051 NRR-088

OFFICE	LPL3-2/PM	LPL3-2/LA	NRR/SRXB	LPL3-2/BC	LPL3-2/PM
NAME	NDiFrancesco	SRohrer	TUises(SMiranda for)	RCarlson	NDiFrancesco
DATE	3/21/11	3/9/11	3/22 /11	3/24/11	3/ 24/11

OFFICIAL RECORD COPY