

September 20, 2007

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

SUBJECT: CLINTON POWER STATION, UNIT NO. 1 - REQUEST FOR ADDITIONAL
INFORMATION RELATED TO REVISION OF LOCAL POWER RANGE
MONITOR CALIBRATION FREQUENCY (TAC NO. MD3795)

Dear Mr. Crane:

By letter to the Nuclear Regulatory Commission (NRC) dated December 12, 2006, AmerGen Energy Company, LLC submitted a request to modify Technical Specification Surveillance Requirements (SR) 3.3.1.1.8 and SR 3.3.1.3.2, by increasing the surveillance interval of the local power range monitor calibration frequency from 1000 megawatt-days per ton (MWD/T) average core exposure, to 2000 MWD/T average core exposure, for the Clinton Power Station, Unit No. 1.

The NRC staff is reviewing your submittal and has determined that additional information is required to complete the review. The specific information requested is addressed in the enclosure to this letter. During a discussion with your staff on June 04, 2007, it was agreed that you would provide a response by no later than October 10, 2007, in order to support the current schedule for completion of the NRC staff review.

The NRC staff considers that timely responses to requests for additional information help ensure sufficient time is available for staff 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) 415-3154.

Sincerely,

/RA/

Stephen P. Sands, 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: See next page

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Request for Additional Information

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DATE	9/18/07	9/18/07	9/20/07

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Clinton Power Station, Unit No. 1

cc:

Senior Vice President - Operations Support
via e-mail

J. W. Blattner
Project Manager
via e-mail

Illinois Emergency Management Agency
Division of Disaster Assistance &
Preparedness
via e-mail

Director - Licensing and Regulatory Affairs
via e-mail

Manager Licensing - Dresden, Quad Cities
and Clinton
via e-mail

Manager Regulatory Assurance - Clinton
via e-mail

Vice President - Regulatory Affairs
via e-mail

Document Control Desk - Licensing
via e-mail

Site Vice President - Clinton Power Station
via e-mail

Plant Manager - Clinton Power Station
via e-mail

Senior Vice President - Midwest Operations
via e-mail

Resident Inspector
U.S. Nuclear Regulatory Commission
via e-mail

Associate General Counsel
via e-mail

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

REQUEST FOR ADDITIONAL INFORMATION

CLINTON POWER STATION, UNIT NO. 1

DOCKET NO. 50-461

In reviewing AmerGen Energy Company's submittal dated January 12, 2007, related to your request to modify Technical Specification (TS) Surveillance Requirements (SR) 3.3.1.1.8 and SR 3.3.1.3.2 to increase the interval between local power range monitor (LPRM) calibrations from 1000 megawatt-days per ton (MWD/T) average core exposure to 2000 MWD/T average core exposure, for the Clinton Power Station, Unit No. 1 (Clinton), the NRC staff has determined that the following information is needed in order to complete its review:

1. Confirm that the change in LPRM calibration frequency continues to allow the 25 percent extension of the calibration interval as stated in the TS provisions in SR 3.0.2.
2. Provide the analysis that shows that the LPRM response uncertainty remains bounded by the minimum critical power ratio (MCPR) safety limits at 2500 MWD/T. In light of current operating strategies at Clinton, this analysis will need to demonstrate:
 - (a) The currently licensed safety limit MCPR is based on power distribution uncertainties that are consistent with the referenced technical basis documentation.
 - (b) A sufficient data base exists to cover the 2500 MWD/T calibration interval, because some of the referenced documentation is based on exposure measured in effective full-power hours rather than MWD/T, and assuming a 1:1 conversion between the two is non-conservative.
 - (c) The safety limit MCPR is licensed consistent with current General Electric interim methods employed at plants operating with expanded operating domains.