

# AmerGen

An Exelon/British Energy Company

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## Clinton Power Station

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RS-02-096

May 20, 2002

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555-0001

Clinton Power Station, Unit 1  
Facility Operating License No. NPF-62  
NRC Docket No. 50-461

Subject: Completion of Power Uprate Modifications for Clinton Power Station,  
Unit 1

References: (1) Letter from J. M. Heffley (AmerGen Energy Company, LLC) to U. S. NRC,  
"Request for License Amendment for Extended Power Uprate Operation,"  
dated June 18, 2001

(2) Letter from U. S. NRC to O. D. Kingsley (Exelon Generation Company,  
LLC), "Clinton Power Station, Unit 1 – Issuance of Amendment (TAC NO.  
MB2210)," dated April 5, 2002

In Reference 1, AmerGen Energy Company (AmerGen), LLC, submitted a request for changes to the operating license and Technical Specifications for Clinton Power Station (CPS), Unit 1, to allow operation at uprated power levels. The NRC approved this request for CPS in Reference 2.

As stated in Reference 1, plant systems and components were verified to be capable of performing their intended design functions at uprated power conditions. A number of modifications were required to support operation at uprated power conditions. Reference 1 contains a listing of those modifications to plant components necessary to support power uprate. It is the intent that modifications requiring a refueling outage to support the implementation of full power uprate will be made during the next two planned refueling outages. CPS has just completed the first of these two planned refueling outages (i.e., C1R08) on May 7, 2002.

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The only safety-related modifications required to support power uprate involved instrument setpoint changes. These setpoints included the following.

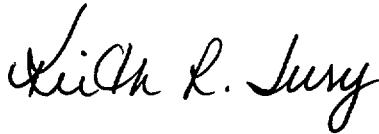
- Average Power Range Monitor (APRM) flow biased simulated thermal power scram
- APRM flow biased rod block
- Main Steam Line high flow group 1 isolation
- Turbine Stop Valve closure/Turbine Control Valve fast closure scram and Reactor Recirculation Pump Trip bypass
- Control Rod Block Pattern Controller Low Power Setpoint
- Control Rod Block Pattern Controller High Power Setpoint

All of the above setpoint changes were completed during C1R08.

A number of balance of plant modifications in support of operation at uprated power conditions were also completed during C1R08. These modifications included replacing the high pressure turbine, main power transformers, main generator hydrogen coolers and generator excitation anode transformer, increasing generator hydrogen pressure, and upgrading the isolated phase bus duct cooling. In addition, five feedwater piping supports were upgraded to meet ASME Code allowable stress limits under power uprate conditions.

Should you have any questions or require additional information related to this letter, please contact Mr. Timothy A. Byam at (630) 657-2804.

Sincerely,



Keith R. Jury  
Director – Licensing  
Mid-West Regional Operating Group

cc: Regional Administrator – NRC Region III  
NRC Senior Resident Inspector – Clinton Power Station  
Office of Nuclear Facility Safety – Illinois Department of Nuclear Safety