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U-602339  
L30-94(09-09)LP  
8G.120

JGC-258-94  
September 9, 1994

Docket No. 50-461

Document Control Desk  
Nuclear Regulatory Commission  
Washington, D.C. 20555

Subject: Illinois Power's (IP's) Clarification of Generic Letter (GL) 89-10  
Information Submitted in Previous Correspondences

Dear Sir:

IP is providing revised information for previously submitted minimum thrust requirements for five Rockwell Edward Hermavalves (1B21F067A, B, C, D and 1E51F076). The previous submittals affected are U-letters U-602225 dated January 13, 1994; U-602284 dated May 6, 1994; and U-602301 dated June 20, 1994.

Prior to GL 89-10 torque switch adjustments, IP questioned the applicability of the equations used to calculate the torque switch setting requirements for five Rockwell Edward Hermavalves. IP had used the standard industry equation to evaluate the minimum thrust requirements for these five globe valves. Further evaluation showed that due to the valve design, the standard industry equation for globe valves was not applicable to these five valves. In a Hermavalve, the stem is not connected to the disc but instead it presses down on an intermediate diaphragm. Rockwell Edward was contacted on August 1, 1994, and they provided IP with equations based on empirical data to be used for Rockwell Edward Hermavalves.

Reevaluation of minimum thrust requirements using the Rockwell Edward equations primarily resulted in four changes in information included in the three U-letter submittals. The first change was that minimum thrust requirements for Rockwell Edward Hermavalves were determined using Rockwell Edward supplied equations. The second change was to an assumption which stated that the valve factor used for globe valves was 1.1. This does not apply to Rockwell Edward Hermavalves which use Rockwell Edward supplied equations to determine minimum thrust requirements. The third item was that motor closing capability was reevaluated for 1E51F076. The reevaluation was based on Clinton Power Station average stem friction coefficient and it identified that the motor closing capability at degraded voltage, when evaluated for both locked-rotor current and

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high ambient temperature effects, is 4,492 lbs. (which is greater than the minimum thrust requirement of 4,144 lbs.). The fourth item was the minimum required thrust for these five valves increased. Provided below is the old required minimum thrust and the new required minimum thrust.

	Globe	Valve Size	Old Req <sup>1</sup> Min Thrust (lbs)	New Req Min Thrust (lbs)	As-left Thrust (lbs)	Valve Δ (psi)
1B21F067A	OUTBOARD MSIV ABOVE SEAT DRAIN VALVE	1.5"	3,625	5,787	8,040	1,190
1B21F067B	OUTBOARD MSIV ABOVE SEAT DRAIN VALVE	1.5"	3,625	5,787	8,693	1,190
1B21F067C	OUTBOARD MSIV ABOVE SEAT DRAIN VALVE	1.5"	3,625	5,787	7,895	1,190
1B21F067D	OUTBOARD MSIV ABOVE SEAT DRAIN VALVE	1.5"	3,625	5,787	7,714	1,190
1E51F076 <sup>2</sup>	REACTOR CORE ISOLATION COOLING STEAM LINE WARM-UP INBOARD ISOLATION VALVE	1.0"	1,846	4,144	7,941	1,178

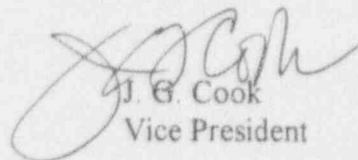
<sup>1</sup> These were the values given on the U-letters mentioned above.

<sup>2</sup> This valve was reinstated into IP's GL 89-10 Program in U-602301.

Although the above valves no longer have more than twice the calculated minimum required thrust as stated previously, the switch settings for these five valves remain more than 25 percent above the minimum required thrust. Therefore, the change did not impact any of the final conclusions in any of the three previous submittals.

Attachment 1 provides an affidavit supporting the facts set forth in this letter.

Sincerely yours,

  
J. G. Cook  
Vice President

JSP/csm

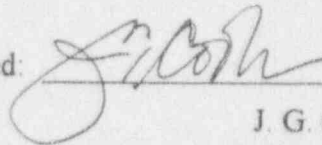
Attachment

cc: NRC Clinton Licensing Project Manager  
NRC Resident Office, V-690  
Regional Administrator, Region III, USNRC  
Illinois Department of Nuclear Safety

J. G. Cook, being first duly sworn, deposes and says: That he is Vice President of the Nuclear Program at Illinois Power (IP), Clinton Power Station (CPS); that this letter supplying revised information to Generic Letter 89-10 has been prepared under his supervision and direction; that he knows the contents thereof, and that to the best of his knowledge and belief said letter and the facts contained therein are true and correct.

Date: This 9 day of September 1994.

Signed: \_\_\_\_\_

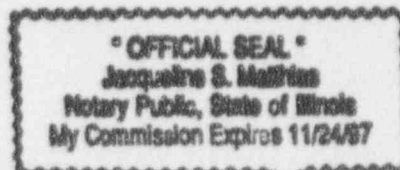


J. G. Cook

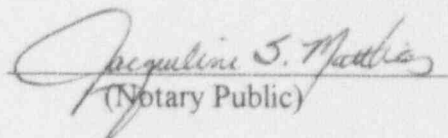
STATE OF ILLINOIS

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DeWitt COUNTY



Subscribed and sworn to before me this 9<sup>th</sup> day of September 1994.

  
(Notary Public)