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U-602634
4F.140

WC-280-96
September 20, 1996

Docket No. 50-461

10CFR21.21

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

Subject: 10CFR21 Final Report 21-96-004: ITT Barton
Hydramotor Actuator Pump Assembly Failed to
Develop Hydraulic Pressure During Testing

Dear Madam or Sir:

On March 6, 1996, Illinois Power (IP) identified the failure of a pump assembly for an ITT Barton series NH95 hydramotor actuator as a condition potentially reportable under the provisions of 10CFR, Part 21. The pump was withdrawn from stores and installed during an overhaul of the actuator. The function of the pump is to develop the hydraulic pressure to operate the actuator. During testing of the hydramotor actuator following the overhaul, the pump failed to develop hydraulic pressure. The pump assembly was returned to the supplier, ITT Barton, for inspection. The pump assembly is ITT Barton part number NS109761EQX07.

Illinois Power notified the NRC via 10CFR21 Interim Report 21-96-004 (IP letter U-602580, dated May 1, 1996) that the evaluation of this condition required under the provisions of 10CFR, Part 21 was not complete, pending completion of an inspection by the supplier to determine the reason for the failure of the pump to develop pressure.

ITT Barton has completed the inspection and reported that their initial test identified that the pump assembly was pumping but would not develop pressure. Testing of the solenoid valve in the assembly to determine if it was operating identified that it was not operating. After several cycles of energizing and de-energizing the solenoid, the valve began working. The pump motor was then re-energized and tested, and worked per specification requirements.

ITT Barton reported that the cause of the pump not developing pressure was probably a result of some sort of contamination in the solenoid dump valve assembly where small particles in the oil probably lodged between the solenoid plunger and the tube

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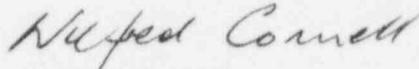
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during transportation and storage. By cycling the solenoid several times, the contaminant was broken loose from the tube assembly and normal pump operation was restored. ITT Barton is not aware of any similar failures and has indicated that no corrective action is required.

IP has evaluated the ITT Barton inspection results and concluded that the issue is not reportable under the provisions of 10CFR21 on the basis that the contamination and its origin are indeterminate.

Additional information about this issue may be obtained by contacting J. W. Blount, Engineering Projects, at (217) 935-8881, extension 3638.

Sincerely yours,



Wilfred Connell
Vice President

RSF/csm

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