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On 3/13/85 with the plant initially at 7% power and an up-power maneuver in progress, steam generat r levels were being controlled manually. At 0650 the Unit operator noted low FW suction pressure (590 psig) causing steam generator levels to drop. A third condensate pump was placed in service. At 0712, generator low was shed by 15 MW to 60 MW. At 0713, the 1A Aux Feed Pump was started with its throttle valves mostly closed to not further shrink levels. At 0720, a gland steam condenser outlet valve (1CD043B) was opened. This parallel condensate Booster and Feedwater suction header pressures then increased (720 level recovery. At 0721 the 1A Aux Feed pump was secured.

Two conditions led to this event:

First the condensate polishers were imposing an excessive pressure drop on the condensate/condensate booster system which degraded the performance of the Start-up Feedwater Pump. Polisher flows were at maximum in support of secondary cleanup efforts to meet chemistry restrictions.

Secondly, the recirculation value for the Start-up Feedwater Pump is not currently throttlable. Due to the pump's large recirculation flow requirement, discharge flow never reaches the point where the recirculation value closes automatically.

System modifications are in progress to auto bypass the polishers on condensate booster pump low suction pressure and to upgrade the start-up FW pump recirculation control system to modulate the valve proportionally with discharge flow.

This event did not affect plant or public safety since the auxiliary feedwater system was available to supply the necessary feedwater should a reactor trip have a occurred.

Previous occurrence: NONE



April 5, 1985

LTR: BYRON 85-0490

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

Dear Sir:

The enclosed Licensee Event Report from Byron Generating Station is being transmitted to you in accordance with the requirements of 10CFR50.73(a)(2)(iv) which requires a 30 day written report.

IE22

This report is number 85-030-00, Docket No. 50-454.

Very truly yours,

210

R. E. Querio Station Superintendent Byron Nuclear Power Station

REQ/gt

Enclosure: Licensee Event Report No. 85-030-00

cc: J. G. Keppler, NRC Region III Administrator J. Hinds, NRC Resident Inspector INPO Record Center CECO Distribution List

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