

SUPPLEMENTAL SAFETY EVALUATION REPORT

BYRON STATION, UNITS 1 AND 2

DOCKET NOS.: STN 50-454 AND STN 50-455

7.3.2.13

Charging Pump Deadheading

In Supplement No. 3 to the Byron SER, the staff stated that the applicant had provided a conceptual outline for a design change which would provide open and close signals for a solenoid-operated valve in each charging pump miniflow line to prevent pump deadheading. These signals were to be developed from four redundant reactor coolant system wide range pressure transmitters combined in two-out-of-four logic for both high (open) and low (close) pressure signals taken in coincidence with the safety injection signal. The staff reviewed the conceptual information and found it acceptable pending review of the detailed design.

The licensee has submitted detailed design information (logic diagrams and electrical schematics) for review and provided, in Amendment 45 to the FSAR, appropriate revisions covering the modifications. The staff has reviewed the detailed information provided and finds the design modification acceptable. Thus, Confirmatory Item 16 is considered closed. (This item is also discussed in Section 6.3.2, SER Supplement No. 4.)

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PDR ADOCK 05000454
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