

Corrective Actions for AFW Issue

Make changes to EOPs, AOPs, and other procedures to ensure that minimum forward flow is Maintained, or the Affected Pump is Stopped

Ensure that the PRA work to evaluate the risk significance of this potential common mode failure is completed expeditiously.

Redesign the orifices using aperture 1/8"

Provide operator training on comp procedures and tagging

Evaluate hydraulic system response to determine if the orifices could become plugged

Develop a test plan to evaluate plugging of a spare orifice

Identify all other applications of this type of orifice

Ensure compliance with the On-line Risk procedure while at heightened risk due to potential for common mode failure

Independently evaluate the briefings and training conducted for operating crews (Coutu).

Independently evaluate the procedure changes (Coutu)

Established an event resolution team, one aspect of which, is the root cause evaluation

Conduct an incident investigation—fact findings of immediate issues surrounding the plugging incident.

Conduct a root cause evaluation—must evaluate why the original modification that installed the recirc orifices did not address the potential for plugging and why the PB organization did not identify the issue when the recirc line was changed to provide a safety-related open function in response to the recent Red AFW finding.

Analyze the samples metallurgically

Evaluate the AFW system to determine the sources and quantity of potential corrosion products

Get test data and other relevant info from orifice vendor for use in the PB PRA

Brought in an NMC PRA expert and a contractor expert

Brought in PII (Performance Improvement International, formerly FPI) to help in the analysis of the AFW plugging issue

Brought in John Holden, ex site director/site vice president/site engineering manager at Crystal River to review the overall effort, including the new design

Write an OE

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in accordance with the Freedom of Information
Act, exemptions 6
FOIA- 2003-0074 6/4

Notify Kewaunee

Commission outside people to review mods and 50.59s, particularly those done by the three engineers involved with the flow orifice issue

Brought in contractor named Neilson ([REDACTED]) to review organizational effectiveness (brought in not just for this issue)

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Streaming analysis (developed by Stanford Univ) will be conducted—software/professional judgement analysis of various inputs, such as WANO/INPO, recent RCES, GAP analysis, and other issues to identify the drivers of organizational performance