

Davis-Besse Inspection 50-346/2002013(DRS)
GMH1 Input

1 **System Health Readiness Reviews (SHRRs)**

.1 Action Item Closure Document Milestone #14-1

a. Inspection Scope

The inspectors reviewed the licensee's completed "System Health Readiness Review Report for the 125/250 Vdc System." The inspectors' review was to verify that the activities performed by the licensee during the SHRR report's preparation, review, and approval were completed in accordance with EN-DP-01504, "System Health Readiness Review," Revision 2.

b. Findings

No findings of significance were identified. However, the inspector identified two condition reports (CRs) that were considered potential restart items, a fuse issue that may be generic to all electrical systems, and several minor editorial errors.

The two CRs were CR 01-01232, "Crack in Battery Post Seal Ring," dated June 22, 2001, and CR 02-00412, "DC Voltage Drop Calculation," dated February 8, 2002.

- Condition Report 01-01232, identified a broken battery post seal nut on cell 21 of the 2P battery. The system engineer concurred that the CR should be changed to a "recommend for restart" item because the 2P battery must be taken out-of-service to complete the CR's corrective action. Since the 2P battery was being disassembled during the current outage for corrosion product removal (CR 02-03354), this outage would be the appropriate time to replace the broken battery post seal nut.
- Condition Report 02-00412, stated that the DC Calculation C-EE-002.01.010 did not adequately address small loads on the dc system. Based on the CR and SHRR report the inspectors could not conclude that this issue was not a restart item. The system engineer concurred with the inspectors that the CR and the report did not clearly indicate whether the issue involved an actual addition of load to the battery or was only concerned with the voltage drop of the circuits supplying the small loads.

The potential generic fuse issue was identified by CR 02-04586, "SHRR: 1992 PCAQR Corrective Action Not Yet Completed - Fuse Size," dated August 23, 2002, which was identified as a "recommend for restart" item by the system engineer. This CR was written following the 125/250 Vdc SHRR walk-down, where several switches were identified with a maintenance information tag (sticker) stating "PCAQR 92-0030." The PCAQR addressed several circuits throughout the plant where the installed fuse did not match that specified by drawing E-2014. Drawing E-2014 was the licensee's controlled fuse drawing. All the fuses identified by the 1992 PCAQR were evaluated and determined to be acceptable for continued operation with the understand that the fuses would be replaced upon fuse failure with the correct fuse. However, the E-2014 drawing

B/11

was not annotated to identify that upon fuse failure the fuse was to be replaced per the PCAQR. The inspectors were concerned that this issue may be generic to all electrical systems and not just the 125/250 Vdc system. The system engineer concurred with the inspectors that the PCAQR identified fuses in other plant systems that should be replaced and that he would ensure that the other affected systems' system engineer would be made aware of this issue.

Subsequent to the NRC inspectors' inspection, the 125/250 Vdc system engineer issued Milestone #14-1, "System Health Readiness Review for 125/250 Vdc System," Amendment 2, Revision 00 dated November 14, 2002, which resolved the inspectors concerns identified above.

LIST OF DOCUMENTS REVIEWED

The following is a list of licensee documents reviewed during the inspection, including documents prepared by others for the licensee. Inclusion on this list does not imply that NRC inspectors reviewed the documents in their entirety, but rather that selected sections or portions of the documents were evaluated as part of the overall inspection effort. Inclusion of a document in this list does not imply NRC acceptance of the document, unless specifically stated in the inspection report.

CR Number 01-01232, "Crack in Battery Post Seal Ring," dated June 22, 2001
CR Number 01-03239, "DC Calculation C-EE-002.01.010 Was Not Updated for Design Package," dated December 4, 2002
CR Number 02-00412, "DC Voltage Drop Calculation," dated February 8, 2002
CR Number 02-04298, "SHRR: Low Voltage Switchgear Room Ventilation Needs Filtering," dated August 15, 2002
CR Number 02-04586, "SHRR: 1992 PCAQR Corrective Action Not Yet Completed - Fuse Size," dated August 23, 2002
CR Number 02-06830, "SHRR: Fuse Control," dated September 27, 2002
CR Number 02-09171, "Fuse Control Issues," dated November 11, 2002
DBE-0001, "Engineering Assessment Board Role/Policy In Support of the Return To Service Plan," Revision 0 dated June 26, 2002
EN-DP-01503, "System Walkdowns," Revision 2 dated August 10, 2002
EN-DP-01504, "System Health Readiness Review," Revision 0 and Revision 2
EN-DP-01505, "Latent Issues Reviews," Revision 0 dated September 3, 2002
Milestone #14-1, "System Health Readiness Review for 125/250 Vdc System," Revision 0
Milestone #14-1, "System Health Readiness Review for 125/250 Vdc System," Amendment 1, Revision 00 dated October 31, 2002
Milestone #14-1, "System Health Readiness Review for 125/250 Vdc System," Amendment 2, Revision 00 dated November 14, 2002
NG-VP-00100, "Restart Action Plan Process," Revision 1 and Revision 2
NOP-LP-2001, "Condition Report Process," Revision 1

"Davis-Besse Restart Overview Panel Charter," Revision 0, dated June 7, 2002
"Davis-Besse Restart Senior Management Team Charter," Revision 0, dated June 24, 2002
"Davis-Besse Restart Station Review Board Charter," Revision 0, dated June 24, 2002
"Davis-Besse Return to Service Plan," Revision 2, dated August 6, 2002
"Davis-Besse System Health Assurance Plan," Revision 2, dated August 5, 2002
"Nuclear Quality Assessment Oversight of Davis-Besse Return to Service Plan," Revision 1, dated July 22, 2002
"System Health Assurance Discovery Action Plan," Revision 1, dated September 9, 2002