

J36. Nine Mile Point 2: BWR-5 Mk2

U.S.A.

Valve Repair in Reactor Water Cleanup System

Description: During the fall of 1988, the non-primary isolation air-operated valves in the water cleanup system (WCS) system failed. During testing, the valves did not close completely causing the loss of instrument air. At that time, a decision was made to completely rebuild the valves during the first refuel outage. The job consisted of repairs to 62 valves in the reactor water cleanup system.

Good Practices:

- Setup of the disassembly and decon in the Contaminated Storage Room with HEPA ventilation.
- Set up of the reassembly area outside hall, without respirators.
- Routing of personnel through lower dose rate areas.

Problems:

- Spare parts were a major problem. The same repair was not needed for each valve therefore many different parts were required.
- The hot machine shop setup for such work could have been optimized with limited time.
- RP could not provide coverage at times because the drywell work was a higher priority than the WCS valve work. It should be noted that, at the same time there were a number of unplanned high priority outage projects that were going on during the outage.

Recommendations: Future work on valves of this type should employ the following:

- Establishment of a separate, low- dose area for disassembly and rebuild.
- Ensure spare parts are properly staged.
- Ensure tools are properly staged and tested.
- Ensure work schedule accounts for proper man loading to optimize labor and dose.

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