

June 1, 2006

MEMORANDUM TO: Alan M. Rubin, Chief
Performance & Reliability Branch
Division of Risk Assessment and Special Projects
Office of Nuclear Regulatory Research

FROM: Donald A. Dube */RA/*
Performance & Reliability Branch
Division of Risk Assessment and Special Projects
Office of Nuclear Regulatory Research

SUBJECT: CLOSE-OUT OF THE AUDIT OF THE CONSOLIDATED DATA ENTRY PROGRAM FOR THE MITIGATING SYSTEMS PERFORMANCE INDEX

REFERENCE: MEMORANDUM FROM D.A. DUBE TO A.M. RUBIN, RE: TRIP REPORT ON THE AUDIT OF THE CONSOLIDATED DATA ENTRY PROGRAM FOR THE MITIGATING SYSTEMS PERFORMANCE INDEX, APRIL 19-20, 2006, ADAMS ACCESSION NUMBER ML061210200, MAY 4, 2006

As described in the referenced interoffice memorandum, staff from the Office of Nuclear Regulatory Research (RES) performed an audit of the Consolidated Data Entry (CDE) 3.0 program at the Institute of Nuclear Power Operations (INPO) offices in Atlanta, GA on April 19-20, 2006. The CDE program will perform the detailed Mitigating Systems Performance Index (MSPI) calculations for all licensees as input to the quarterly performance indicators for the NRC's Reactor Oversight Process (ROP) beginning in July, 2006. The audit indicated that the CDE program generally matched the results for test cases that were generated using an independent set of calculations by the RES staff. However, two defects with CDE 3.0 were identified for certain conditions. One of the defects was immediately corrected, while the other was assigned high priority for resolution.

At the end of the 2-day audit, the staff discussed with INPO the remaining steps to bring the audit matter to closure. These included:

- 1) INPO personnel to resolve the one high priority defect resulting from the audit, and that there be no open high priority defects prior to the scheduled May 22, 2006 production date for CDE 3.0. As discussed in the referenced memo, the high priority defect was related to the set of circumstances in which the sum of the Unreliability Index (URI) and the Unavailability Index (UAI) did not match the reported MSPI in the CDE derivation report.
- 2) That INPO personnel successfully re-run all of their test cases with the corrected CDE 3.0 program prior to production.
- 3) That INPO personnel will create a list of data element types that can trigger the engine and test them one-at-a-time to ensure that the previously noted defect does not re-surface.

4) That INPO personnel re-run the staff's 8 test cases with the corrected CDE program and that the results are acceptable (allowing for the "rounding" issue).

5) That INPO personnel will provide RES staff via e-mail a statement that the above have been completed and that CDE 3.0 is ready for production. The derivations reports for the 8 NRC test cases will also be provided.

By e-mail to D.A. Dube dated May 25, 2006, INPO personnel informed the NRC staff that all the above actions have been taken. RES staff reviewed the information, including the derivations report results for the staff's 8 test cases sent separately, and found the results to be acceptable. We consider all issues to be resolved, and the audit is closed.

cc:

J. Andersen, NRR

P. Appignani, RES

J. Thompson, NRR

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