

November 29, 2005

MEMORANDUM TO: James W. Andersen, Chief
Performance Assessment Branch
Division of Inspection and Regional Support
Office of Nuclear Reactor Regulation

FROM: Nilesch C. Chokshi, Chief /RA/
Operating Experience Risk Analysis Branch
Division of Risk Analysis and Applications
Office of Nuclear Regulatory Research

SUBJECT: NRR USER NEED REQUEST (NRR# 2004-09), "INDUSTRY TRENDS PROGRAM"

This memo documents the completion of the November 2005 activities agreed upon in the memorandum "User Need Request, Industry Trends Program, (NRR# 2004-09)," dated October 18, 2004 (ML042810407), to provide annually the information identified below, to support the issuance of the annual SECY paper on the Industry Trends Program.

The RES staff has prepared reports related to system and component reliability, common cause failures, initiating events, and fire studies. These reports contain data and graphs, including statistical trend lines fitted to the data. The system reliability studies (7), component reliability studies (4), the initiating events study, and the fire study have all been updated to include 2004 data. The common cause failure database has been updated within the last five years, depending on the component. This information, which is now available in pdf format, is presented on the NRC website, <http://nrcoe.inel.gov/results>.

The RES staff has evaluated occurrence rates per reactor-year for all Accident Sequence Precursor (ASP) events with a conditional core damage probability (CCDP) or a change in core damage probability $\Delta\text{CCDP} \leq 10^{-6}$. This information can be found in SECY-05-0192, "Status of the Accident Sequence Precursor (ASP) Program and the Development of Standardized Plant Analysis Risk (SPAR) Models", dated October 24, 2005 (ML052700542).

We have also completed an evaluation of the nature of the short-term variation in the number of ASP precursors from 2000 to 2004 compared with the relatively low number of precursors between 1997 and 1999. Trending of the ASP precursors during FY 1997 through FY 2004 can be found in section 2.3, Precursor Trend Evaluation, of SECY-05-0192.

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