

April 13, 2004

MEMORANDUM TO: Ledyard B. Marsh, Director
Division of Licensing and Project Management
Office of Nuclear Reactor Regulation

FROM: Charles E. Ader , Director /RA/
Division of Risk Analysis and Applications
Office of Nuclear Regulatory Research

SUBJECT: REVIEW AND COMMENTS OF THE DRAFT REPORT
ENTITLED: "GOOD PRACTICES FOR IMPLEMENTING HUMAN
RELIABILITY ANALYSIS (HRA)"

Attached for your review and comment is the draft report entitled, "Good Practices for Implementing Human Reliability Analysis (HRA)," developed by RES and Sandia National Laboratories with the cooperation of NRR/DSSA. The draft report addresses "NRR needs for guidance on how to determine whether a licensee has used a systematic process for identification of the HFEs [Human Failure Events] that is consistent with the level of detail in the logic model, and guidance on what sensitivity analyses should be performed."¹ It is part of NRC's "Draft Action Plan: Stabilizing the PRA Quality Expectations and Requirements," (ML040750524) and supports the implementation of Regulatory Guide 1.200, "An Approach for Determining the Technical Adequacy of Probabilistic Risk Assessment Results For Risk-Informed Activities."

The objective of this draft report is to document the NRC staff views regarding good practices for a HRA performed as part of a nuclear power plant probabilistic risk analysis (PRA) of internal events with the reactor at full power. The report documents the attributes of a good HRA regardless of the specific HRA methods employed. As such, it does not endorse any specific method or tool since many exist. All of the existing methods and tools have strengths and limitations regarding their use and applicability. We believe that the report meets the staff's needs for guidance on how to determine the quality of a licensee's HRA. It provides a reference document for formulating questions about the quality of a HRA and for developing a standard review plan (SRP) for the staff's review of a HRA.

Contact: Erasmia Lois, RES/PRAB
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¹Excerpt from: Memorandum, J. Zwolinski to T. King, "Comments on NRC Human Reliability Research Plan: Fiscal Years 2001-2005, September 4, 2001

We would appreciate your comments by May 31, 2004. We also intend to submit this document for public review and comment in June 2004.

cc w/attachment: A. Thadani
J. Strosnider
S. Black
B. Boger

Attachment: As stated

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May 4, 2004 (3:15PM)

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