

October 12, 2001

NOTE TO: Mindy Landau <sup>-ED</sup>FROM: Tom Wolf <sup>-RS</sup>SUBJECT: DRAA DOCUMENTS and DATABASES POTENTIALLY AFFECTED BY  
RELEASE OF INFORMATION CONCERN

As we discussed last week, here is a listing of the documents that DRAA has released or that await release which potentially may be affected by the release of information concern. Included in the listings are supporting models, databases, and other Agency documents that have similar characteristics. Also noted are the actions which we are currently taking for items under our control pending further Agency guidance.

The criteria I used in developing this information was that the documents should represent a consolidation of plant-specific information that might be used to exploit site-specific features including equipment and facility locations. Included are items you previously have received or discussed with Scott Newberry, Pat Baranowsky, Steve Mays, and Alan Rubin.

For convenience, I have broken the listing into several parts: (1) final documents already released to the public, (2) draft documents already released to the public for comment but release of final versions is pending; (3) draft documents ready for release to the public for comment; (4) supporting models with limited distribution but potentially available to the general public; (5) supporting databases with limited distribution but potentially available to the general public; and (6) other Agency documents with similar characteristics as those listed in the other parts. I have tried to included pertinent information, such as document IDs and titles, ADAMS accession numbers, web site addresses, and brief descriptions of why the listed items may fit the concern criteria.

In summary, we have taken the following actions with regards to the items under our control:

- a. Pending further Agency guidance, we will hold up external dissemination of information that points to plant-specific risk information, including cutsets, sequences, models, and insights. The consequences of this action include:
  1. Reliability studies of the reactor protection systems for B&W and CE plants [NUREG/CR-5500 (Vols. 10 and 11)] and the report on the IPEEE program (NUREG-1742) will not be distributed outside the NRC, including contractors.
  2. The fire events update report (update to AEOD/S97-03) will not be distributed outside the NRC, including EPRI and Nuclear Electric Insurance Limited (NEIL).
  3. ASP reports (NUREG/CR-4674), including individual ASP analyses normally sent to licensees for peer review, will not be distributed outside the NRC.
  4. Common-cause failure reports [NUREG/CR-XXX (Vols. 1 - 4)] will not be distributed for external peer review.
  5. Further external distribution by us of any of the items in the "Final Documents

III-2

89

That Have Already Been Released to the Public" listing will be halted.

- b. Pending further Agency guidance, we will restrict access to the supporting models and databases by non-NRC/contractor entities. The consequences of this action are:
1. Search requests of Sequence Coding and Search System will be limited to NRC and its contractors.
  2. Standardized Plant Analysis Risk models will not be distributed outside the NRC and its contractors.
  3. Requests by persons outside the NRC and its contractors will not be honored for information from the system reliability, common-cause failure, ASP, fire events, and component performance databases.
  4. Access to the Reliability and Availability Data System will be restricted to NRC personnel and their contractors.
- c. Based on current Management Directions and 10CFR sections, we are attempting to develop a procedure for how DRAA will handle contractor access and the internal distribution of the various types of potentially sensitive information. We will inform you of our proposed approach by Friday, October 26, 2001.

I hope this information is helpful to you. Please call me at 415-7576 if you have any comments, questions, or further guidance. As you can see, the impact on DRAA programs is significant.

cc: RES:  
Ashok Thadani  
Roy Zimmerman  
Scott Newberry  
Patrick Baranowsky  
Steven Mays  
Mark Cunningham  
Alan Rubin  
Thomas King  
John Flack  
Michael Mayfield  
Daniel Dorman  
Mabel Lee

NRR:  
David Mathews  
Richard Barrett  
Gary Holahan  
Bruce Boger  
William Dean  
Michael Johnson

Final Documents Already Released to the Public

Document ID	Document Title	ADAMS Accession No.	Description
NUREG/CR-5500 Vol. 1 Vol. 2 Vol. 3 Vol. 4 Vol. 5 Vol. 6 Vol. 7 Vol. 8 Vol. 9	Reliability Studies of: Auxiliary/Emergency Feedwater System, 1987-1995 Westinghouse Reactor Protection System, 1984-1995 General Electric Reactor Protection System, 1984-1995 High-Pressure Coolant Injection (HPCI) System, 1987-1993 Emergency Diesel Generator Power System, 1987-1993 Isolation Condenser System, 1987-1993 Reactor Core Isolation Cooling System, 1987-1993 High-Pressure Core Spray System, 1987-1993 High-Pressure Safety Injection System, 1987-1997	NA NA NA NA NA NA NA NA NA ML003753584 ML003762606	Series of studies for the most risk-significant systems in a nuclear power plant. They contain both industry and plant-specific system reliability information based on actual operational data. The information could be used to identify plant-specific vulnerabilities associated with the associated systems.
NUREG/CR-5496	Evaluation of Loss of Offsite Power Events at Nuclear Power Plants: 1980-1996	ML003769668	Study that updates NUREG-1032 using more current data to provide parameters needed to estimate the risk of loss of offsite power and station blackout scenarios. Both plant-specific and industry information is provided. The information could be used to identify vulnerabilities associated with offsite power losses.
NUREG/CR-5750	Rates of Initiating Events at U.S. Nuclear Power Plants: 1987-1995	NA	This report provides information on the frequencies, trends, and between-plant variations for events resulting in reactor scrams that are important for risk assessments.
NUREG-1715 Vol. 1 Vol. 2 Vol. 3 Vol. 4	Component Performance Studies of: Turbine-Driven Pumps, 1987-1998 Motor-Driven Pumps, 1987-1998 Air-Operated Valves, 1987-1998 Motor-Operated Valves, 1987-1998	ML003686669 ML003708823 ML993540341 ML003726139 ML011550070 ML011800236 ML011800372 ML012630199	These reports provide information on the performance trends of essential safety-related components. This information could be used to identify plant-specific vulnerabilities associated with associated components.
AEOD/S97-03	Special Study Fire Events - Feedback of U.S. Operating Experience (1965-1985)	NA	The report includes an examination of the potential impact that fire events could have on plant risk assessments. Two versions have been produced since one version contains proprietary information.

## Final Documents Already Released to the Public

NUREG-1728 Vols. 1 - 2	Assessment of Risk Significance Associated with Issues Identified at D.C. Cook Nuclear Power Plant	ML003768545 ML003769979 ML003770006 ML003770008 ML003772013 ML003773751	This report documents the assessment of the risk significance of 141 issues identified at D.C. Cook since August 1997. This information could be used to identify vulnerabilities at this particular plant.
NUREG/CR-4674 Vols. 1 - 26 Vol. 27	Precursors to Potential Severe Core Damage Accidents [a.k.a. Accident Sequence Precursors] (Issued annually since 1975) [1975 - 1997] [1998]	NA ML003733843	Annual reports that describe actual operational events that are considered to be precursors to potential severe core damage accidents. The information could be used to identify plant-specific vulnerabilities if specific systems are disabled.

## Final Documents Already Released to the Public

Document ID	Document Title	ADAMS Accession No.	Description
NUREG/CR-5500 Vol. 10 Vol. 11	Reliability Study: Combustion Engineering Reactor Protection System, 1984-1998 Babcock & Wilcox Reactor Protection System, 1984-1998	ML003773958 NA	Continuation of series of studies for the most risk-significant systems in a nuclear power plant. They contain both industry and plant-specific system reliability information based on actual operational data. The information could be used to identify plant-specific vulnerabilities if specific systems are disabled.
(Update to AEOD/S97-03, final document ID not yet determined)	Special Study Fire Events - Feedback of U.S. Operating Experience (1986-1999)	NA	Update of a report that covers actual fire events that have occurred at U.S. nuclear power plants. The report includes an examination of the potential impact that this information could have on fire risk assessments. Drafts for final comment have been released to the public, including EPRI and NEIL. Two versions have been produced since one version contains proprietary information.
NUREG/CR-4674 Vols. 28	Precursors to Potential Severe Core Damage Accidents - 1999	NA	Latest volume in the annual report series that describe actual operational events that are considered to be precursors to potential severe core damage accidents. The information could be used to identify plant-specific vulnerabilities if specific systems are disabled.
NUREG-1742	Report on the Individual Plant Examination of External Events (IPEEE) program	ML011210395 ML011210429 ML011210469 ML011210516 ML011090099 ML011090124 ML011780186 ML011780656 ML012070158 ML012140419 ML012190184 ML012190262 ML012190272 ML012410305 ML012690426	The draft for public comment is also available on the web at: <a href="http://www.nrc.gov/NRC/NUREGS/SR1742/V1/Index.html">http://www.nrc.gov/NRC/NUREGS/SR1742/V1/Index.html</a> .

## Final Documents Already Released to the Public

Document ID	Document Title	ADAMS Accession No.	Description
NUREG/CR-6268 Vol. 1 Vol. 2 Vol. 3 Vol. 4	Common-Cause Failure Event Insights Emergency Diesel Generators Motor-Operated Valves Pumps Circuit Breakers	NA NA NA NA	Series of reports that summarize the insights about common-cause events for U.S. nuclear plants derived from worldwide nuclear plant operating experience. The information could be used to identify generic vulnerabilities of risk-significant equipment.

## Final Documents Already Released to the Public

Document ID	Document Title	ADAMS Accession No.	Description
None (70 plant-specific) (48 plant-specific) (5 plant type) (8 plant type)	Standardized Plant Analysis Risk Model: Revision 2QA Revision 3I Low Power/Shutdown Large Energy Release Fraction	NA NA NA NA	Series of reports that document plant-specific PRA-based risk analysis models/tools to analyze operational event core damage probabilities. The information could be used to identify plant-specific vulnerabilities of risk-significant systems and components.  Models are available on the web via controlled access to the SAPHIRE users group at INEEL. Part of the verification of the Rev. 3I models has been via site-visit meetings with the associated licensees. There is no public notification of the site visits.

Final Documents Already Released to the Public

Document ID	Document Title	ADAMS Accession No.	Description
NA	Sequence Coding and Search System (SCSS)	NA	Database containing all Licensee Event Reports received since 1984. Maintained by ORNL for DRAA/RES. Available with controlled access through the web at: <a href="http://scss.ornl.gov/">http://scss.ornl.gov/</a>
NA	System reliability database, including Initiating events and loss of offsite power	NA	Database used for the reliability studies documented in the NUREG/CR-5500 series, the Initiating event study documented in NUREG/CR-5750, and the loss of offsite power study documented in NUREG/CR-5496. Maintained by INEEL for DRAA/RES.
NA	Common-cause failure database	NA	Database used for the common-cause failure insight reports (NUREG/CR-xxxx) that awaiting release to the public for comment. Database has been released to INPO and to the licensees but not to the public because of the use of proprietary data. Information from this database also supports the U.S. participation in the International Common-Cause Data Exchange program. Maintained by INEEL for DRAA/RES.
NA	Reliability and Availability Data System (RADS)	NA	Database and associated analytical software that utilizes data from the system reliability database and, primarily, from the Equipment Performance Information Exchange database maintained by INPO. RADS is maintained for DRAA/RES by INEEL and will be available through controlled access via the web.
NA	Accident Sequence Precursor database	NA	Database which contains all of the event information published in the NUREG/CR-4674 series. Maintained by INEEL for DRAA/RES.



## Final Documents Already Released to the Public

NA	Fire events database	NA	Database with proprietary information, which contains the information published in the AEOD/S97-03 and the update which is currently out for both internal and external comment. Copies have been provided to EPRI and NEIL. Maintained by DRAA/RES.
NA	Component performance database	NA	Database which contains the information published in the NUREG-1715 series. Maintained by DRAA/RES.

## Final Documents Already Released to the Public

Document ID	Document Title	Description
Multiple	Updated Final Safety Analysis Reports (USARs)	Various chapters show plant locations, building layouts, piping and instrumentation diagrams, and accident vulnerabilities. One of the sources for the Plant Information Books.
Multiple	Individual Plant Examination (IPE) Reports and Individual Plant Examination of External Events (IPEEE) Reports	Identify plant-specific vulnerabilities, both internal and external, for various events.
Multiple	NRC Technical Training Center Technology Systems Manuals	Similar to USARs.
NUREG/CR-5640	Overview and Comparison of U.S. Commercial Nuclear Power Plants	May be outdated but contains useful comparison tables and system diagrams, like in USARs and Plant Information Books.
NUREG-1430 NUREG-1431 NUREG-1432 NUREG-1433 NUREG-1434	Standardized Technical Specifications Babcock and Wilcox plants Westinghouse Electric plants Combustion Engineering plants General Electric BWR/4 plants General Electric BWR/6 plants	Identify generically important safety systems.
NUREG-1350	USNRC Information Digest	Pinpoints plant-specific site locations.
Multiple	NRC generic communications, such as information notices, bulletins, generic letters	May identify generic plant vulnerabilities <a href="http://www.nrc.gov/NRC/GENACT/GC/index.html#BL">http://www.nrc.gov/NRC/GENACT/GC/index.html#BL</a>
Multiple	Generic safety issues	May identify generic plant vulnerabilities <a href="http://www.nrc.gov/NRC/NUREGS/SR0933/index.html">http://www.nrc.gov/NRC/NUREGS/SR0933/index.html</a>
Multiple	Part 21 reports	May identify plant-specific vulnerabilities <a href="http://www.nrc.gov/NRC/PUBLIC/PART21/index.html">http://www.nrc.gov/NRC/PUBLIC/PART21/index.html</a>
NUREG-1150 NUREG-4550 NUREG/CR-4551	Severe Accident Risks: An Assessment for Five U.S. Nuclear Power Plants and supporting documents	Like IPEs and IPEEEs, identify plant-specific vulnerabilities and consequences to various events.