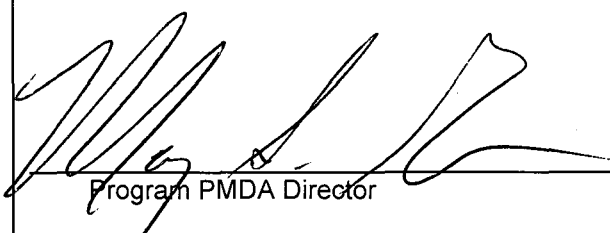



REQUEST FOR RECORDS DISPOSITION AUTHORITY		LEAVE BLANK (NARA Use Only)	
TO: NATIONAL ARCHIVES AND RECORDS ADMINISTRATION WASHINGTON, DC 20408		JOB NUMBER <i>NI-431-092</i>	
1. FROM (Agency or establishment) U.S. Nuclear Regulatory Commission		DATE RECEIVED <i>12/3/08</i>	
2. MAJOR SUBDIVISION or PROGRAM Office of Nuclear Reactor Regulation		NOTIFICATION TO AGENCY In accordance with the provisions of 44 U.S.C. 3303a, the disposition request, including amendments, is approved except for items that may be marked "disposition not approved" or "withdrawn" in column 10.	
3. MINOR SUBDIVISION			
4. NAME OF PERSON WITH WHOM TO CONFER Tracy L. Clark	5. TELEPHONE 301-415-1474	DATE	ARCHIVAL STATUS WITHDRAWN

6. AGENCY CERTIFICATION
 I hereby certify that I am authorized to act for this agency in matters pertaining to the disposition of its records and that the records proposed for disposal on the attached 3 page(s) are not now needed for the business of this agency or will not be needed after the retention periods specified; and that written concurrence from the General Accounting Office, under the provisions of Title 8 of the GAO Manual for Guidance of Federal Agencies,

is not required; is attached; or has been requested.

DATE	SIGNATURE OF AGENCY REPRESENTATIVE <i>Deborah H. Armentrout</i> Deborah H. Armentrout, CRM	TITLE NRC Records Officer
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7. Item No.	8. DESCRIPTION OF ITEM AND PROPOSED DISPOSITION	9. GRS or Superseded Job Citation	10. Action Taken (NARA Use Only)
	Title: Reactor Vessel Integrity Database (RVID)		
	 Program PMDA Director		
	 Office of General Counsel		
	<i>11/12/08</i> Date		
	<i>11/14/08</i> Date		

REACTOR VESSEL INTEGRITY DATABASE (RVID)

The Reactor Vessel Integrity Database is an Access database which stores docketed data inputs of industry information and computed values based on these inputs. The information consolidates Reactor Pressure Vessel (RPV) integrity-related information obtained from licensee submittals in a convenient and accessible manner regarding the properties of reactor pressure vessel beltline materials for licensed reactor power plants. Additionally, the database has computational capability to validate the licensee's pressurized thermal shock (PTS) and embrittlement analyses. The RVID assists NRC staff in its evaluations of domestic Reactor Pressure Vessels and provides for simplified reviews of facilitating information important to evaluating RPV integrity.

The official NRC records are contained in ADAMS or another currently approved record keeping system. RVID provides an industry-wide summary of this information.

1) Inputs/Source Documents

Data entry originates from submittals from licensees reporting reactor vessel embrittlement-related information, chemical composition data and power (neutron fluence) history. After the data and supporting information have been entered into RVID, periodic updates are performed to reflect information from more recent submittals.

Disposition: TEMPORARY. Documents containing RVID data input information reside in ADAMS and are cut-off after data entry is complete and verified to be correct.

2) Master File

Information contained in RVID includes:

- Licensee, Plant Name and Docket Number
- Reported surveillance and power history data
- Licensee's RPV fracture toughness data and calculations
- References to docketed submittals placed in ADAMS (ML Number)

Disposition: PERMANENT. Cut off files when RVID in 5 year blocks and when it is replaced or decommissioned. Transfer a *copy* to the National Archives for pre-accessioning at the end of each 5 year blocks. When RVID is replaced or decommissioned, transfer pertinent data to any successor system, and transfer to the legal custody of the National Archives after cut off in accordance with NARA Bulletin 2004-02 and NARA regulations at 36 CFR 1228.270.

3) Outputs

RVID is used by the NRC staff to support reviews of licensee submittals related to RPV integrity. No formal reports or other RVID outputs are produced by the system.

a. Ad-Hoc Reports

Reports created from RVID data created to assist in administering the Reactor Vessel Integrity program.

Disposition: TEMPORARY. Documents containing RVID data input information are cut-off and destroyed when no longer required for business purposes.

WITHDRAWN

4) RVID System Documentation

System Documentation has been developed for RVID in accordance with NUREG/BR-0167, "Software Quality Assurance Program & Guidelines". The following work products are typical of the documentation developed and stored in Rational ClearCase.

- Data Dictionary
- Build and Installation Instructions
- Logical Design
- Online Help
- Operational Support Guide
- Physical Design
- Project Action Plan
- Project Charter
- Tactical Integration Plan
- Test Plan
- Training Material
- User Guide

Disposition:

a) Initial and Revised Documentation.

Disposition: TEMPORARY. Retain current and subsequent revisions of these records in a controlled repository (e.g., Rational ClearCase or ADAMS) Cut off when the documents are superseded and the revisions placed in ADAMS. Destroy 2 years after cut off.

b) Final System Documentation.

Disposition: PERMANENT. Cut off files when copy of the master file is made. Transfer an electronic copy to the National Archives for pre-accessioning with the Master File (Item 2).

WITHDRAWN

Attachment A

REACTOR VESSEL INTEGRITY DATABASE (RVID) BACKGROUND:

RPV materials are subject to embrittlement due to exposure to high energy neutrons. An embrittlement shift is used to evaluate consolidated impacts related to radiation hardening and embrittlement. The program for material embrittlement surveillance is managed using the Reactor Vessel Integrity Database – RVID. Radiation hardening and embrittlement of RPV materials depends on a large number of metallurgical and irradiation variables.

The RVID has been developed using Microsoft Access. The official NRC records themselves are the correspondence and analyses from the licensees related to RPV integrity and these records are maintained in electronic formats in ADAMS or another currently approved record keeping system. RVID provides a summary of the data and analyses related to the RPV integrity issue for the use of the NRC staff. This information as summarized in RVID provides basic information of the strength of the materials used for the construction of reactor pressure vessels and the degradation of these materials over time when exposed to high neutron fluence and contrasts the experimental data with the expected strength as computed using commonly used codes. This information, collected over the lifetimes of the licensed reactors, provide an important source of basic scientific data that may be used to refine computational models.

The Program Authority for RVID is 10 CFR Part 50.61, “Fracture Toughness Requirements for Protection Against Pressurized Thermal Shock Events,” 10 CFR 50, Appendix G, 10 CFR 50, Appendix H, and Regulatory Guide 1.99 “Radiation Embrittlement of Reactor Vessel Materials”. NUREG-1511 and NUREG-1612 also provide information describing the program.

Dates: data has been collected and managed in RVID since 1992.