

REQUEST FOR RECORDS DISPOSITION AUTHORITY
(See Instructions on reverse)

21 OCT 21 1981

TO **GENERAL SERVICES ADMINISTRATION,
NATIONAL ARCHIVES AND RECORDS SERVICE, WASHINGTON, DC 20408**

1. FROM (AGENCY OR ESTABLISHMENT)
Tennessee Valley Authority

2. MAJOR SUBDIVISION
Office of Power

3. MINOR SUBDIVISION
Clinch River Breeder Reactor Project

4. NAME OF PERSON WITH WHOM TO CONFER
Ronald E. Brewer

5. TEL EXT
FTS 857-3351

LEAVE BLANK

JOB NO
NCI-142-82-2

DATE RECEIVED
October 23, 1981

NOTIFICATION TO AGENCY

In accordance with the provisions of 44 U.S.C. 3303a the disposal request, including amendments, is approved except for items that may be stamped "disposal not approved" or "withdrawn" in column 10

11-9-81 *Robert M. [Signature]*
Date Archivist of the United States

6. CERTIFICATE OF AGENCY REPRESENTATIVE

I hereby certify that I am authorized to act for this agency in matters pertaining to the disposal of the agency's records; that the records proposed for disposal in this Request of 11 page(s) are not now needed for the business of this agency or will not be needed after the retention periods specified.

A Request for immediate disposal.

B Request for disposal after a specified period of time or request for permanent retention.

C. DATE
10/9/81

D. SIGNATURE OF AGENCY REPRESENTATIVE
Ronald E. Brewer

E. TITLE
Assistant TVA Archivist

7. ITEM NO	8. DESCRIPTION OF ITEM (With Inclusive Dates or Retention Periods)	9. SAMPLE OR JOB NO	10. ACTION TAKEN
<u>X</u>	<p><u>Quality Records for the Clinch River Breeder Reactor Plant (CRBRP) Project: Request for Authority to Preserve Records on Microfilm and Dispose of Original Records</u></p> <p>The Clinch River Breeder Reactor Plant (CRBRP) Project is a joint undertaking of the United States Government and the nuclear industry of the United States to design, construct, and operate a Liquid Metal Fast Breeder Reactor (LMFBR) power plant on the Tennessee Valley Authority (TVA) system in Oak Ridge, Tennessee. The Plant will be licensed by the Nuclear Regulatory Commission under the provisions of the Energy Reorganization Act of 1974. Execution of the Project will result in many documents being prepared to assist in Project management and to record Project accomplishment. Some of these documents will relate to the quality of the Plant, its configuration and to activities affecting quality. These documents will be collected and maintained as quality records. To accomplish this collection and maintenance task, the Project has established and is implementing a Project-wide quality records management system. It is in this quality records system that all records pertaining to Plant quality will be microfilmed and indexed with the</p>	NCI-142-80-1	

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	<p>exception of selected instances when legibility or expected use does not justify microfilming. At the present time, <u>9 cubic feet of series 1.0. Design Quality Records, are on hand which the Project elects to retain as paper copies rather than microfilm. It is estimated that only 20 cubic feet per year will be required for quality record paper storage at the present rate of accumulation; but that additional space will be required in the future. The Project requires life-of-plant security storage for these paper records, in accordance with the nuclear storage requirements of ANSI N45.2.9.</u></p> <p>Certification: In accordance with the records disposition requirements of Federal Property Management Regulations (FPMR), Section 101-11.506, this document certifies that the records described on this form shall be microfilmed in accordance with the standards set forth in 41 C.F.R. 101-11.506-3.</p> <p>A complete working file of silver and/or diazo microfilm copies of all quality records is maintained at the CRBRP Project Records Center, Oak Ridge, Tennessee. All routine requests for record copies are to be referred to this Center in order that the retrieval load will not be placed on the NARS East Point facility.</p> <p>The following paragraphs explain further the circumstances of this request and describe extensively the records to be dispositioned.</p> <p>This disposition request includes only quality records, that is records pertaining to the technical quality of the CRBR Plant and to activities affecting quality. These are documents which are not covered by the Federal Records Schedules. The documents are created by design engineers and other cognizant technical professionals who create the documents to describe configuration of the Plant, to describe items that are manufactured for the Plant, and to describe other quality related procedures and practices. An estimated 40 million pages of this documentation will be created during the design, procurement, manufacturing, installation-construction, and preoperational and start-up phases of the CRBRP Project. All of this documentation is available to the U. S. Nuclear Regulatory Commission upon their request. However, only the <u>Safety Analysis Report and Quality</u></p>		

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	<p>Assurance Manuals and procedures are submitted to the NRC on a regular basis. Virtually, all of the quality assurance documents are duplicated and distributed to the various Project participating organizations. As noted above, a complete working file of the records on film is maintained at the CRBRP Quality Records Center, Oak Ridge, Tennessee.</p> <p>The general requirements and guidelines for the collection, storage, and maintenance of these quality assurance records, in either hard copy or microform, are described in the following Federal Regulations and standards which are closely adhered to by the participants in the CRBRP Project:</p> <p><u>10 C.F.R. 50, Appendix B, Quality Assurance Criteria for Nuclear Power Plants and Fuel Processing Plants.</u></p> <p><u>U. S. Nuclear Regulatory Commission Regulatory Guide 1.88, Collection, Storage, and Maintenance of Nuclear Power Plant Quality Assurance Records.</u></p> <p><u>ANSI/ASME N45.2.9-1974, an American National Standard, Requirements for Collection, Storage, and Maintenance of Quality Assurance Records for Nuclear Power Plants.</u></p> <p>Five series of technical documentation are included in this request:</p> <p>(1) Design Records, (2) Procurement Records, (3) Manufacturing Records, (4) Installation-Construction Records, and (5) Preoperational and Startup Records. Each of these series is described below:</p> <p><u>Series 1.0, DESIGN</u></p> <p>Applicable Codes and Standards Used in Design Design Drawings As Constructed Drawings Design Calculations and Record Checks Design Change Requests Design Deviations Design Procedures and Manuals Design Reports Design Review Reports Design Verification Data Drawings Control Procedures</p>		

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	<p>Engineering Reports Master Change Records Purchase and Design Specs and Amendments QA System Audit Reports Reports of Engineering Surveillance of Field Activities Requests for Document Change Safety Analysis Report, Preliminary and Final Stress Reports Systems Descriptions Systems Process & Instrumentation Diagrams Technical Analysis Evaluation & Reports Reliability Analysis, Evaluation and Reports</p> <p><u>Series 2.0, PROCUREMENT</u></p> <p>Audit Reports Procurement Procedures Procurement Specifications Purchase Orders (Unpriced) Including Amendments Purchaser's Pre-Award QA Surveys Receiving Records Supplier's QA Program Manuals Supplier's QA Program Indices Preprocurement Plans Procurement Advisory Report (PAR) Contract Advisory Report (CAR) Purchase Approval Request Letters (PURLs) Customer Approval Letters on PARs Acknowledged Copy of Subcontracts and all Modifications</p> <p><u>Series 3.0, MANUFACTURING</u></p> <p>ASME Code Data Reports Applicable Code Data Reports As-Built Drawings and Records As-Constructed Drawings and Records Certificate of Inspection and Test Personnel Qualification Reports of Internal and External Audits and All Related Correspondence Equipment Schedules/Lists Failure Reports QA Program Manual, including Index and Applicable Procedures Unusual Occurrence Reports</p>		

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	<p>Source Surveillance Data Plans and Reports QA Shipping Releases Pre-Award QA Surveys Certificates of Compliance Cleaning Procedures Eddy-Current Examination Procedures Eddy-Current Examination Final Results Electrical Control Verification Test Results Ferrite Test Procedures Ferrite Test Results Forming and Bending Procedure Qualifications Heat Treatment Procedures Heat Treatment Records Hot Bending Procedure Inspection and Test Instrumentation and Tooling Calibration Procedures and Records Liquid Penetrant Examination Procedures Liquid Penetrant Examination Final Results Location of Weld Filler Material Magnetic Particle Examination Procedures Major Defect Repair Procedures and Records Supplier Data Only Material Properties Records Nonconformance Reports Packaging, Receiving, Storage Procedures Performance Test Procedure and Results Records Pipe and Fitting Location Reports Pressure Test Procedure Pressure Test Results Product Equipment Calibration Procedures Product Equipment Calibration Records QA System Audit Reports QA Manuals, Procedures and Instructions Radiographic Examination Procedures Radiograph Review Records Ultrasonic Examination Procedures Ultrasonic Examination Final Results Welding Materials Control Procedures Welding Personnel Qualifications Welding Procedure Qualifications and Data Reports Welding Procedures Work Processing and Sequencing Documents Certified Stress Reports (Code Items)</p>		

7. ITEM NO	8. DESCRIPTION OF ITEM (With Inclusive Dates or Retention Periods)	9. SAMPLE OR JOB NO	10. ACTION TAKEN
	<p><u>Series 4.0, INSTALLATION-CONSTRUCTION</u></p> <p>4.1 RECEIVING AND STORAGE</p> <p>Inspection Reports for Stored Items Nonconformance Reports Receipt Inspection Reports on Items Receiving, Storage and Inspection Procedures Storage Inventory and Issuance Records Vendor Quality Assurance Releases</p> <p>4.2 CIVIL</p> <p>Check-Off Sheets for Tendon Installation Concrete Cylinder Test Reports and Charts Concrete Design Mix Reports Concrete Placement Records Inspection Reports for Channel Pressure Tests Material Property Reports on Containment Liner and Accessories Material Property Reports on Metal Containment Shell and Accessories Material Property Reports on Reinforcing Steel Material Property Reports on Reinforcing Steel Splice Sleeve Material Material Property Reports on Steel Embedments in Concrete Material Property Reports on Steel Piling Material Property Reports on Structural Steel and Bolting Material Property Reports on Tendon Fabrication Material Mix Water Chemical Analysis Pile Drive Logs Pile Loading Test Reports Procedure for Containments Vessel Pressure Proof Test and Leak Rate Tests and Results Reports for Periodic Tendon Inspection Reports of High-Strength Bolt Torque Testing Soil Compaction Test Reports</p>		

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	<p>4.3 WELDING</p> <p>Ferrite Test Procedures Ferrite Test Results Heat Treatment Procedures Heat Treatment Records Liquid Penetrant Test Procedures Liquid Penetrant Test Final Results Magnetic Particle Test Procedures Magnetic Particle Test Final Results Major Weld Repair Procedures and Results Material Property Records Radiographic Test Procedures Radiograph Review Records Ultrasonic Test Procedures Ultrasonic Test Final Results Weld Fit-Up Reports Weld Location Diagrams Weld Procedures Weld Procedures Qualifications and Results Welding Filler Metal Material Reports Welding Materials Control Procedures Welding Personnel Qualifications</p> <p>4.4 MECHANICAL</p> <p>Cleaning Procedures and Results Code Data Reports Documentation of System Check-Off (Logs or Data Sheets) Hydro-Test Procedures and Results Installed Lifting and Handling Equipment Procedures, Inspection, and Test Data Lubrication Procedures Lubrication Records Material Properties Records Pipe and Fitting Location Reports Pipe Hanger and Restraint Data Pressure Test Results Safety Valve Response Test Procedures Value Inventory and Inspection Records</p>		

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	<p>4.5 ELECTRICAL & I&C</p> <p>Cable Pulling Procedures Cable Pulling Tension Data Cable Separation Data Cable Splicing Procedures Cable Terminating Procedures Certified Cable Test Reports Documentation of Testing Performed After Installation & Prior to Systems Conditional Acceptance Electrical Components - Inspection Reports Field Workmanship Checklists or Equivalent Logs Instrument Calibration Results Relay Test Procedures Report of Pre-Installation Tests Voltage Breakdown Tests Results on Liquid Installation</p> <p>4.6 GENERAL</p> <p>As-Built Drawings and Records Calibrations of Measuring and Test Equipment and Instruments Procedures and Report Records Certificates of Inspection and Test Personnel Qualification Construction Site Administration Records Environmental Report Records Field Assembly Procedures Field Audit Reports Field QA Manuals Final Inspection Reports and Releases Specifications and Drawings Unusual Occurrence Reports Personnel Training and Qualifications Nonconformance Reports</p>		

7. ITEM NO	8. DESCRIPTION OF ITEM (With Inclusive Dates or Retention Periods)	9. SAMPLE OR JOB NO	10. ACTION TAKEN
1.	<p>Series 5.0, <u>PREOPERATIONAL AND STARTUP TEST RECORDS</u></p> <p>Automatic Emergency Power Source Transfer Procedures and Results Final Systems Adjustment Data Pressure Test Results (Hydrostatic or Pneumatic) Initial Heatup, Hot functional and Cooldown Procedures and Results Initial Plant Loading Data Initial Reactor Criticality Test Procedures and Results Main and Auxiliary Power Transformer Test Procedures and Results Off-Site Power-Source Energizing Procedure and Test Reports On-Site Emergency Power-Source Energizing Procedure and Test Reports Plant Load Ramp Change Data Plant Load Step Change Data Power Transmission Substation Test Procedures and Results Preoperational Test Procedures and Results Primary and Secondary Auxiliary Power Test Procedures and Results Reactor Protection System Tests and Results Startup Logs Startup Problems and Resolutions Startup Test Procedures and Results Station Battery and DC Power Distribution Test Procedures and Reports Water Chemistry Reports Instrument AC Systems and Inverters Test Procedures and Reports</p> <p>Disposition:</p> <p>A. Paper Copies</p> <p>(1) Paper copies of microfilmed records - Destroy 60 days after accurate, readable, archival quality microform copies have been prepared and placed in security storage.</p> <p>(2) Paper copies as record copies^A - Transfer quarterly to Federal Record Center, East Point, Georgia. Offer to NARS at end of CY when 25 years old. ^{ca.} 20 cm Pt/yr. <i>Arr. by quality record #.</i></p>	<p><i>NCI-142-80-1, It. 1A</i></p> <p><i>(limited to series 1.0, Design Quality Records)</i></p> <p><i>new item</i></p>	

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	B. Microfilm (1,600 rolls/year. Accumulation will end when plant construction and startup phases are completed.) Records on film are arranged by an identification number.		
(1)	Record Copy (a) silver original	- Permanent. Transfer semi-annually to Federal Records Center, East Point, Georgia, for storage. Offer to NARS at end of CY when 25 years old.	NCI-142-80-1, Item 1 B (1) →
(b)	1 duplicate copy (diaz)	- Offer to NARS at end of CY when 25 years old with related silver originals.	NCI-142-80-1, Item 1 B (1)
(2)	All other copies	- Destroy in Agency when no longer needed for reference.	NCI-142-80-1, Item 1 B (2)
	C. Computer Output Microfiche Index or other Computer Printed Index (cumulative)		
(1)	CRBRP Copy	- Destroy in Agency when superseded.	NCI-142-80-1, Item 1 C (1)
(2)	NARS Copy	- Transfer latest copy annually (when 25 years old) to NARS with related film. NARS will retain as nonrecord finding aid until superseded, then destroy.	NCI-142-80-1, Item 1 C (2)

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	D. Computerized Index (Cumulative)		
	(1.) CRBRP Copy - Destroy in Agency when superseded.	NCI-142-80-1, Item	1D(1)
	(2.) Record Copy - Permanent. Transfer annually (when 25 years old) from disk to magnetic tape and send to NARS along with related microfilm.	NCI-142-80-1, Item	1D(2)
	E. All manuals, procedural indexes, guides, documentations and any necessary information retrieval routines--transfer to NARS the current version with related film. NARS to destroy when superseded as nonrecord finding aid.	NCI-142-80-1, Item	1E
	F. Aperture Cards (design and as-built drawings). Arrange by drawing number. 150,000 drawings upon project complete.		
	(1.) Record Copy - Permanent. Transfer annually at end of CY to Federal Records Center, East Point, Georgia, for storage. Offer to NARS at end of CY when 25 years old.	NCI-142-80-1, Item	1F(1)
	(a.) silver original		
	(b.) 1 duplicate copy (diaz) - Offer to NARS at end of CY when 25 years old with related silver originals.	NCI-142-80-1, Item	1F(1)
	(2.) All other copies - Destroy in Agency when no longer needed for reference.	NCI-142-80-1, Item	1F(2)