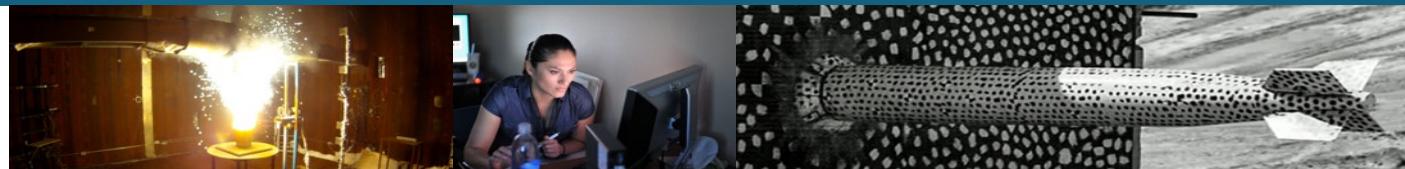




NWM Cloud Environment and Application Demonstration—Day 2



Briefing to Dr. Kimberly Petry
Acting Deputy Assistant Secretary for Used Fuel Disposition
November 16, 2021



Sandia National Laboratories is a multimission laboratory managed and operated by National Technology & Engineering Solutions of Sandia, LLC, a wholly owned subsidiary of Honeywell International Inc., for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-NA0003525.

NWM Cloud Demonstration Scope



Demonstration Purpose

To provide a high-level visual overview of the access to and capabilities of the NWM Legacy Applications and Content. And to demonstrate how Microsoft O365 & Azure cloud services were used.

This is not a full application workflow demonstration. The demonstrations are not focused on the update/management of data and content within the legacy applications.

This is not Legacy application usage training.

Multiple IT & Functional SMEs will demonstrate live or via recording the NWM cloud environment's capabilities and Legacy Applications.



Agenda: NWM Cloud Demonstration

Day I – November 9, 2021, 9:00am – 12:00pm MST

- **NWM Cloud Environment Overview**
 - Cloud services, security
 - Configuration Management
 - ATO
 - Legacy Application Testing/Readiness Review
- **NWM User Orientation**
- Break
- **Part I Legacy Applications Walkthrough**
 - Document Control (CDIS)
 - Sample Management (QITS)
 - Technical Data Management (TDMS)
 - Training Management (TSERVE)
 - Configuration Management/Impact Analysis (DIRS)
 - Corrective Action Program (CAP)
 - Lessons Learned & Operating Experience

COMPLETE



Agenda: NWM Demonstration

Day II – November 16, 2021, 9:00am – 12:00pm MST

- **Part II Legacy Applications Walkthrough**
 - Records Management (RDMS)
 - Requirements Management (DOORS)
 - LA Database (LADB)
 - RAI Response (RAIRS)
- **Break**
- **Part II Legacy Application Walkthrough cont.**
 - Contentions Tracking System
 - Technical Library (TechLib/TIC)
 - Former Lotus Notes Apps/Databases
 - Other File Archives
- **O&M Support Scope**
- **Wrap-Up**



NWM Cloud Applications Walkthrough (Day 2)



Records Data Management System (RDMS)

The Records Document Management System (RDMS) supports records management from submittal to disposition or transfer, fulfilling ongoing federal obligations under the Federal Records Act and NARA requirements.

The RDMS enables the capture, electronic processing, indexing, review, maintenance, search, and retrieval of both electronic and physical project records.

Regulatory Requirement:

- 10 CFR Part 72.174, Quality Assurance Records

QA Requirements and Implementing Procedures

- DOE QARD, Section 17, Records Management
 - AP-17.1Q, Records Management
 - RM-PRO-1002



Records System conversion

- The YMP Records System was built on a predecessor product of the OpenText Content Suite platform that we migrated the system to.
- As part of our system conversion and migration, we also converted all the records from individual TIFF images into PDFs that meet current records requirements.
- Most users will only engage with the RDMS system to search and recover records for informational use, so our walkthrough starts there.

 Enterprise ▾

Content Filter

Filter by name  Enterprise Workspace View

Content Type

Document (1224080)
Physical Item Container (191884)

Folder (32998)

Physical Item (4325)

Form (33)

More...

Document Type

Office (1212164)
Images (1212153)
Other (11901)

More...

Modified Date

Today (5593)
Yesterday (2)
Monday (2)
Last week (624)
Two weeks ago (594746)
Three weeks ago (610983)
Last month (1257245)
Older (189908)

More...

		Copy	Move	Delete	Zip & Download	Zip & Email	Email Link	Print	Collect	Add to Warehouse	More... ▾	Download	Print	Collect	Add Item ▾
		Type	Name ↑									Size	Modified		
<input type="checkbox"/>	5.5.3 Records Destruction											3 Items	08/31/2021 21:35		
<input type="checkbox"/>	Batch History		💡									25 Items	11/10/2021 01:05		
<input type="checkbox"/>	CD / DVD WF											3 Items	10/13/2021 14:49		
<input type="checkbox"/>	CD/DVD Document/Record Test Folder											0 Items	06/09/2021 22:13		
<input type="checkbox"/>	CDRS											16 Items	09/22/2021 00:02		
<input type="checkbox"/>	Data Dictionary											35 Items	03/08/2021 20:16		
<input type="checkbox"/>	Delete Record WF											4 KB	09/14/2021 22:23		
<input type="checkbox"/>	Deleted Electronic Records_Test											0 Items	09/23/2021 15:49		
<input type="checkbox"/>	DEV Test 1											3 KB	04/15/2021 13:59		
<input type="checkbox"/>	Developer Folder											1 Item	10/07/2021 21:38		
<input type="checkbox"/>	ETRANS FOLDER											7 Items	10/20/2021 16:40		
<input type="checkbox"/>	Official Program Records											3 Items	10/24/2021 23:41		
<input type="checkbox"/>	PACKAGES											4 Items	09/14/2021 21:28		
<input type="checkbox"/>	RECORD_LOCATION		💡									15 Items	11/10/2021 20:14		
<input type="checkbox"/>	Search Query Options											1 Item	10/28/2021 03:51		
<input type="checkbox"/>	templates		💡									14 Items	11/10/2021 16:59		
<input type="checkbox"/>	Test - 01											17 Items	07/14/2021 20:18		
<input type="checkbox"/>	test 1											0 KB	11/01/2021 20:52		



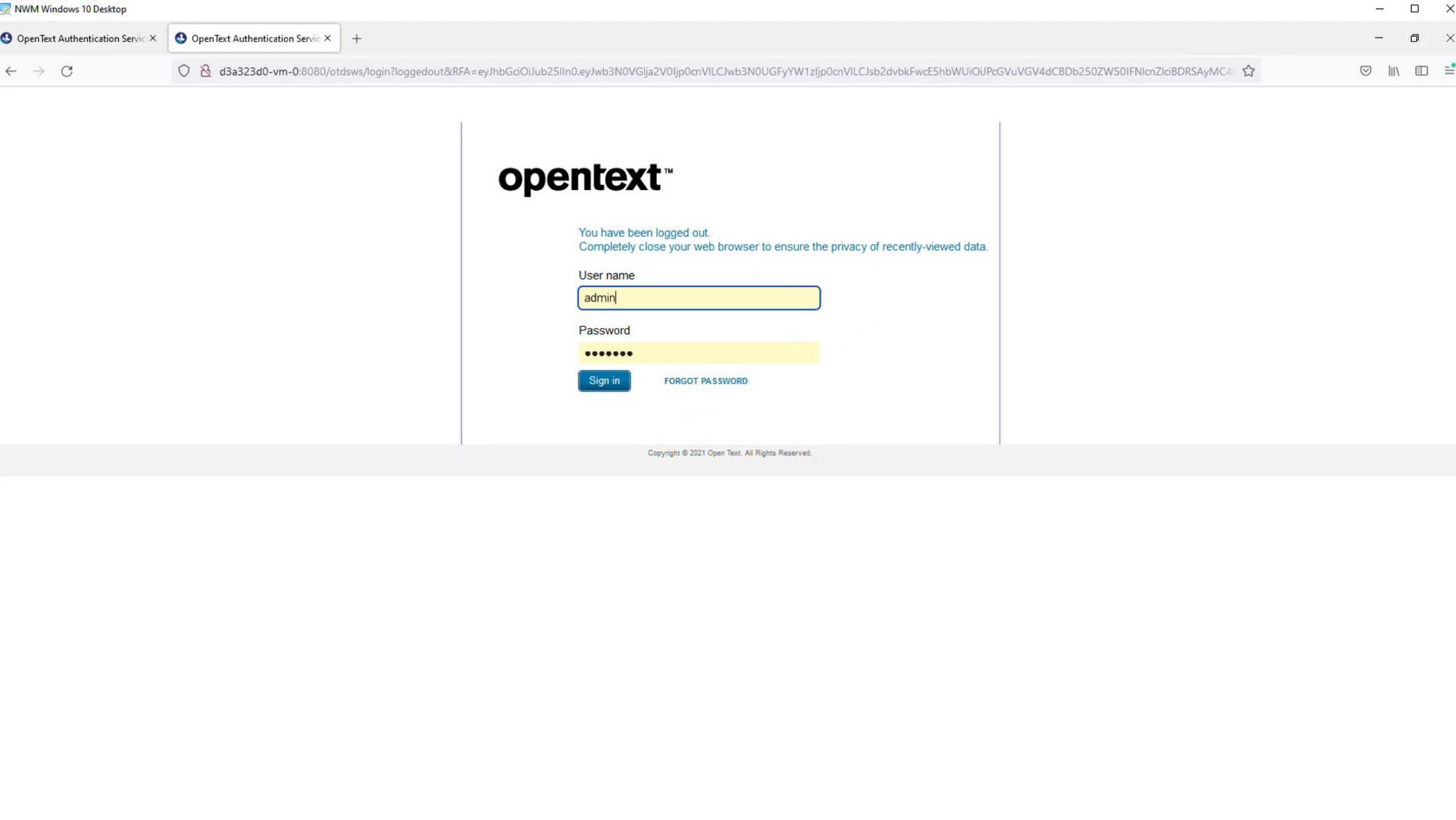
Records Management Processes

The records management process itself involves two main groups:

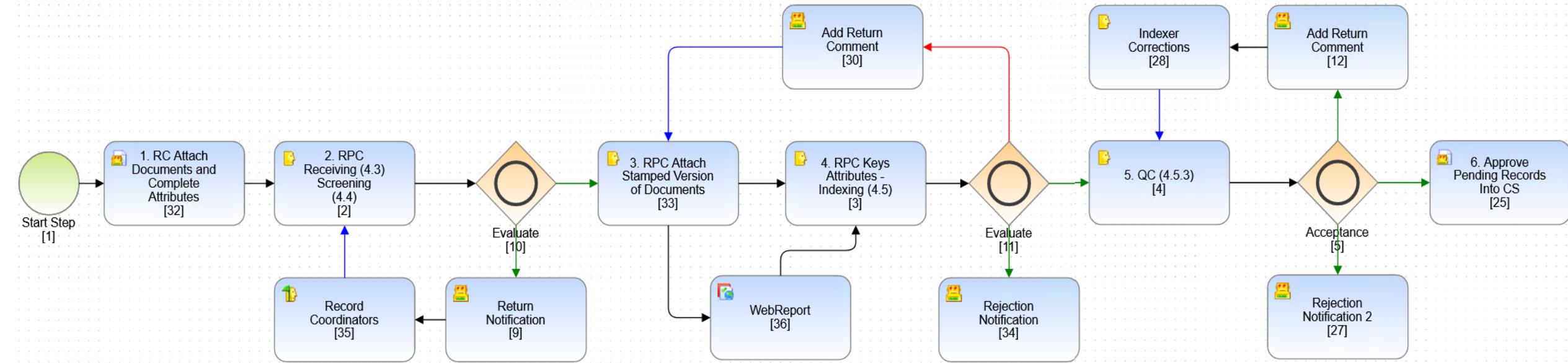
- **Record Coordinators**, who work in project organizations and help groups submit their records and meet other records requirements
- The **Records Processing Center (RPC)**, whose staff does all the work in the system except submittal: screening, QC, maintenance of physical media including optical discs, and disposition functions.

The walkthrough video that follows shows those administrative processes, and wouldn't be seen by most of us here, who are "consumers" of records.

After the video, we'll look at illustrations of the workflows that have been configured inside the system to conduct the work.

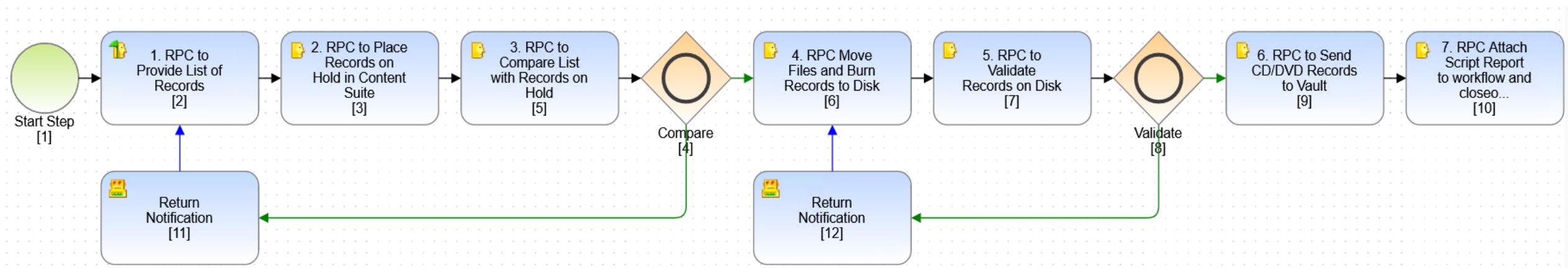


Record Submittal (ETRANS) Workflow





CD/DVD Workflow Map





Federal Record Retention Requirements

Built out in the system – Not applied to the records

Enterprise ▾ Personal ▾ Tools ▾ Admin ▾ My Account ▾ ? ▾

Records Management >

RSI ▾

Delete

<input type="checkbox"/> Type	Title
25 ▾	Cutoff files after project completion, cancellation or termination. Destroy 25 years after completion, cancellation or termination of the project/program.
25YRS ▾	Offer to NARA when 25yrs old
5_YEARS_(AUDIOVISUAL) ▾	Transfer to the NARA in five-year blocks when the newest record is 5 yrs old. For historically significant production files, transfer to the NARA with related audiovisual records.
CALENDARYR+10YRS ▾	Cut off annually. Transfer to NARA in 5-year blocks when 10 yrs old.
CALENDARYR+25YRS ▾	Cutoff annually. Transfer to NARA in 5-yr blocks 25 yrs after cutoff.
CASE_CLOSED+25YRS ▾	Transfer to NARA 25 yrs after close of case.
CASE_CLOSED+FISCALYR+25YRS ▾	Cut off at end of the fiscal year in which the case was closed. Transfer to NARA 25 yrs after cutoff.
FISCALYR+10YRS ▾	Cut off at end of the fiscal year. Transfer to NARA 10 yrs after cutoff.
FISCALYR+25YRS ▾	Cut off at end of the fiscal year. Transfer to NARA in 5-year blocks when 25 yrs old.
LICENSE_PERM_CLOSURE ▾	End of Operating Period ("Retain until the Schedule) or Lifetime of the Facility (until the license is amended for permanent closure)
PROGRAM_CLOSED+2YRS_DESTROY10YRS ▾	Cutoff files after project/program completion, cancellation or termination, or in 5-year blocks. Retire to the Federal Records Center within 2 years after termination of project/program.
PROGRAM_CLOSED+2YRS_DESTROY25YRS ▾	Cutoff files after project/program completion, cancellation or termination, or in 5 year blocks. Retire to the Federal Records Center within 2 years after termination of project/program.
PROJECT_CLOSED+20YRS ▾	Cutoff when project is completed. Transfer to NARA 20 yrs after cutoff.
ROD_ISSUED+20YRS ▾	Cutoff when ROD is issued. Transfer to NARA 20 yrs after cutoff.
SUPERSEDED+25YRS ▾	Cutoff when superseded, obsolete, or canceled. Transfer to NARA 25 yrs after cutoff.
TEST 2.4 HOURS RETENTION ▾	
TRAINING_SESSION+75YRS ▾	Transfer to Federal Records Center after last session. Destroy 75 years after last session.

Delete

YMP End of Project Retention Series Applied to Individual Records



Enterprise ▾ Personal ▾ Tools ▾ Admin ▾ My Account ▾ ? ▾

Search 

Classifications >

 Research & Development Project Case File - Level II ▾

Pulse From Here

 Copy  Move  Delete

Add Item ▾

There are no items to display.

<input type="checkbox"/>	Type	Name ↑	Size	Modified
<input type="checkbox"/>	 LSN-RELEVANT	▼	0 Items	01/26/2021 23:18
<input type="checkbox"/>	 NOTQA-NOTLSN	▼	0 Items	02/17/2021 18:06
<input type="checkbox"/>	 QA	▼	0 Items	01/26/2021 23:18

 Copy  Move  Delete



Record Disposition Workflow for NARA

Review / Present / Offer / Final / Confirm

Enterprise ▾ Personal ▾ Tools ▾ Admin ▾ My Account ▾ ? ▾

Records Management > Dispositions >

 Present Electronic To NARA ▾

General Specific ActiveView Audit Columns Notification Perspectives Review Process Settings

Stage: ⚠

PRESENT...

<None>

CONFIRM...

FINAL...

OFFER...

PRESENT...

REVIEW...

Search Criteria

RSI:

Note: To include all RSIs in the disposition search, leave the RSI field blank.

Default Process:

Any Process

Delete Electronic Format New Status: <None>

Destroy

Export New Status: <None>

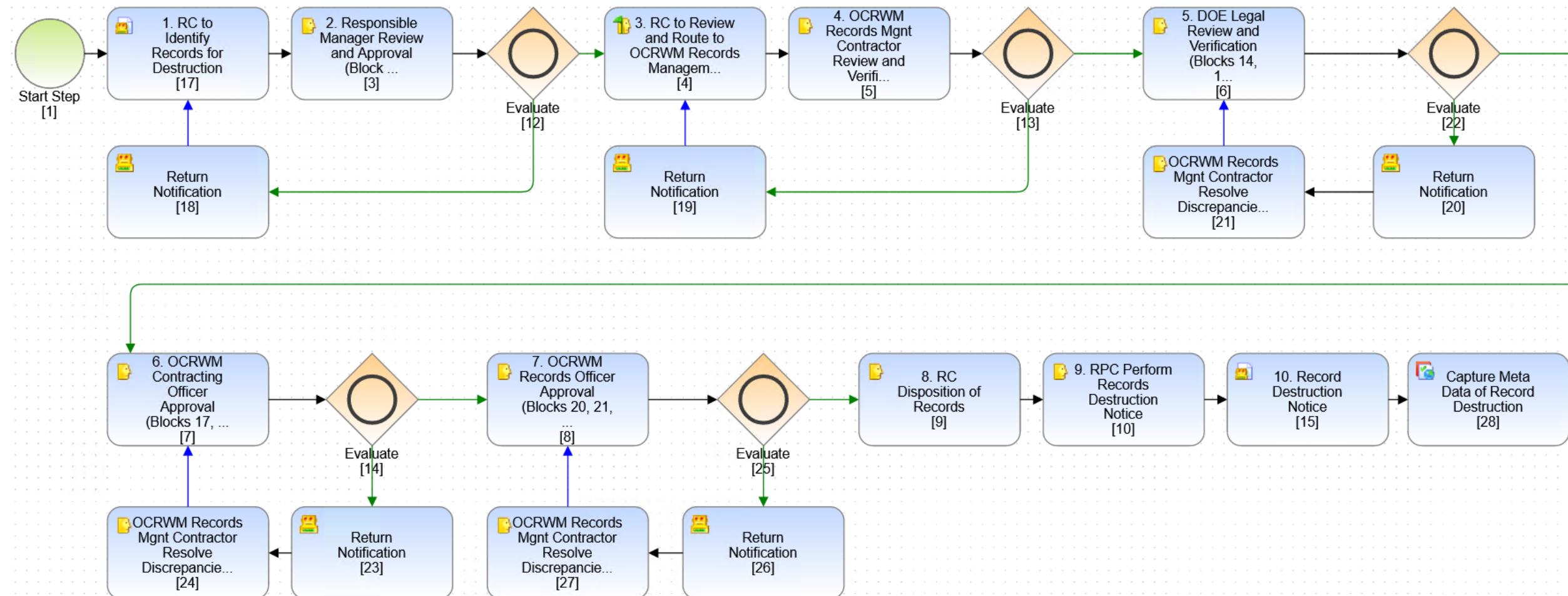
Close New Status: <None>

Change Status New Status: <None>

Mark Official New Status: <None>

Make Rendition

Record Destruction Workflow Map





Requirements Management (DOORS)

The Requirements Management Program, as implemented in DOORS, confirms accurate and complete disposition of all program requirements. As implemented previously, DOORS requirements management might be viewed as a program management and planning tool and as the last confirmatory step of initial QA implementation, demonstrating that initial QA requirements are being fully implemented and identifying what remains to be completed to attain a mature QA organization and satisfy regulatory and DOE policy requirements.

Requirements sources, for requirements management functions:

- DOE O 226.1B, Implementation of Department of Energy Oversight Policy Directives
- DOE O 250.1, Civilian Radioactive Waste Management Facilities—Exemption from Departmental Management Requirements
- DOE O 251.1C, Departmental Directive Program
- DOE O 252.1, Technical Standards Program
- DOE P 450.2A, Identifying, Implementing and Complying with Environment, Safety and Health Requirements



Requirements Management (DOORS)

Other nuclear QA programs use DOORS as part of a detailed QA design control program, instead of using a system of requirements documents and other interface control documents. Use of this DOORS in that capacity should be considered when planning QA implementation for operations. Under this approach, DOORS addresses these additional regulatory and QA requirements:

- 10 CFR 72.48, Changes, tests, and experiments
- 10 CFR 72.146, Design control (quality assurance)

The DOORS software is unmodified and requires no customizations for use in supporting any DOE projects.

The existing system data can be reused and updated if desired. For example, the regulatory requirements for QA can be updated from the 10 CFR Part 63 source to the equivalent 10 CFR Part 72 source and then associated with the new implementing mechanisms appropriate for QA activities on a storage project.





LA Database

The License Application Database supported development and review of the license application, and after submittal, updates to the license application. These are non-QA processes (the LA itself is a non-QA document), but the consequences of inaccuracy or incompleteness, the importance of addressing NRC commitments, and the importance of timeliness in conduct and completion of the process are such that the processes and system must provide a high level of rigor.

The LA database captured the development, review, and approval responsibilities for each LA section, provided a library of supporting references with additional metadata relevant for licensing configuration management, and managed official commitments made to the NRC as well as other licensing action items.

Regulatory drivers:

- 10 CFR 72.11 Completeness and accuracy of information
- 10 CFR 72.70 Safety analysis report updating

Implementing procedures:

- PLN-MGR-RL-000004, *Yucca Mountain Repository License Application Support Plan*
- AP-REG-022, *License Application Configuration Management*
- LP-REG-004-OCRWM, *Managing Commitments to the U.S. Nuclear Regulatory Commission*
- LP-REG-020-OCRWM, *Activity Screening for License Application Impact*
- LS-PRO-2001, *License Application Update and Maintenance*
- LS-PRO-2002, *License Application Change Identification and Control*

The system was tested by exercising all functions, adding new data and testing updates to it, confirming access controls based on user permissions.

Elapsed since submittal to NRC:
13 years, 167 days

License Application Database

Logged in as PGMEACH

* READER *

Admin Editor Reader

LA Management Info
LA Document Sections
References
Impact Review
LIST
Action Item Tracking
Products List
Decision/Risk
Crosswalk Functions
Cross-Reference Matrix

LA SECTIONS TOC VIEW

Search with in: Section Info (Metadata) Current Draft Text Docketed Version Draft Text Historical Draft Text Reference List

LA SECTION	LA SECTION TITLE	CURRENT REVIEW DRAFT	CURRENT STATUS
00_LA letter	LA Submittal Letter (and Attachments)		
01_Draft LA Update	01_Draft LA Update		Posted/Out for Review Comments Due: 05-04-20
GI-01.00	General Description	Rev. 2, Draft A, Update 2	Updated Draft Posted; No LCRs Pending
GI-01.00test	A test document	DRAFT X test	LCR(s) Implemented; to Author for Approval
GI-02.00	Proposed Schedules for Construction, Receipt, and Emplacement of Waste	Rev 1, Update 1	
GI-03.00	Physical Protection Plan	Rev 0, Update 1	
GI-04.00	Material Control and Accounting Program	Rev 0, Update 1	
GI-05.00	Site Characterization	Rev 2, Draft B, Update 2	Updated Draft Posted; No LCRs Pending
SAR-01.00	Repository Safety Before Permanent Closure	Rev 0, Update 1	
SAR-01.01	Site Description As It Pertains to Preclosure Safety Analysis	Rev 2, Draft B, Update 2	Updated Draft Posted; No LCRs Pending
SAR-01.02	Surface Facility Structures, Systems, and Components and Operational Process Activities	Rev 0, Update 1	Approved LCR(s) Pending Implementation
SAR-01.02.01	Surface Operations Overview	Rev 0, Validation Change B, Update 2	Updated Draft Posted; No LCRs Pending
SAR-01.02.02	Surface Facilities Structural, Mechanical Handling Equipment, and Heating, Ventilation, and Air-Conditioning System Design	Rev 2, Draft C, Update 2	Updated Draft Posted; No LCRs Pending
SAR-01.02.03	Initial Handling Facility	Rev 2, Draft D, Update 2	Updated Draft Posted; No LCRs Pending
SAR-01.02.04	Canister Receipt and Closure Facility	Rev 2, Draft E, Update 2	Updated Draft Posted; No LCRs Pending
SAR-01.02.05	Wet Handling Facility	Rev 2, Draft E, Update 2	Updated Draft Posted; No LCRs Pending



Type here to search



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11/14/2021



RAI Response System

The RAI Response System (RAIRS) helped automate and document all steps of RAI Response Process, beginning with receipt of NRC Requests for Additional Information, and through categorization, planning, preparation, review, approval, and final submittal of the responses back to NRC. It ensured that the response process for hundreds of responses could be implemented quickly and controlled and monitored carefully, ensuring that all response could be delivered within a nominal 40-day schedule.

Regulatory purpose:

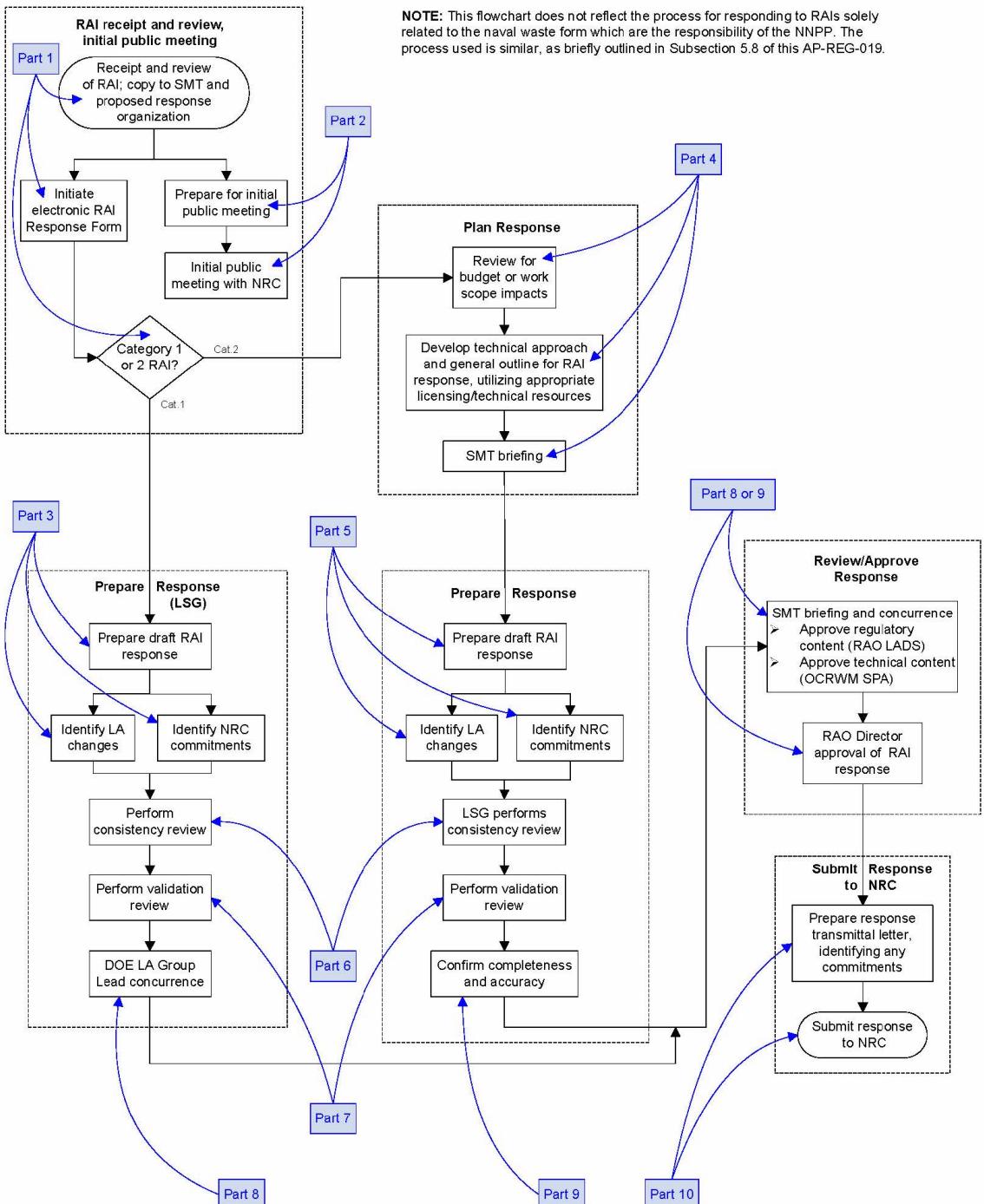
- 10 CFR Part 2, see especially 10 CFR Part 2.108 Denial of application for failure to supply information

Supported regulatory requirement:

- 10 CFR 72.11 Completeness and accuracy of information

The system was tested with live tabletop exercises, with all roles assigned to a team of testers who tried to break the rules (trying to do things they shouldn't) and confirming the system automations routed email notifications and allowed approved actions.

RAI Process as Automated in RAIRS





RAI Response System



[RAIRS User Guide](#)

[Home](#)

[Search RAIs](#)

[Reports](#)

[Mgmt Info](#)

[Letters](#)

[Admin](#)

[Initiate RAI](#)

LINKS

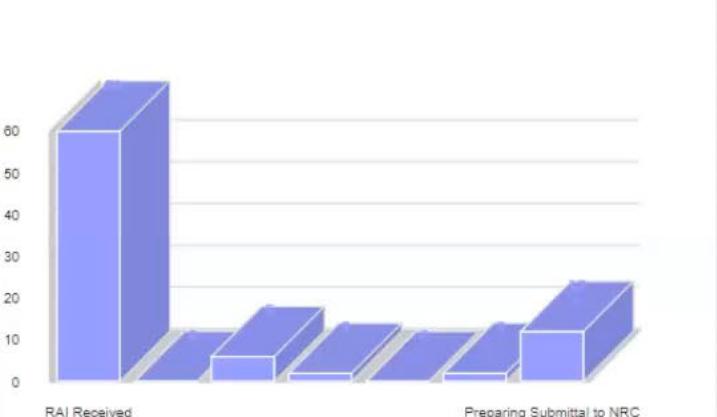
[NWM Homepage](#)

[LA Database](#)

Switch Views: Classic Baseline Date NRC Due Date

Last updated 94957 minutes ago at 6:52:13 PM.

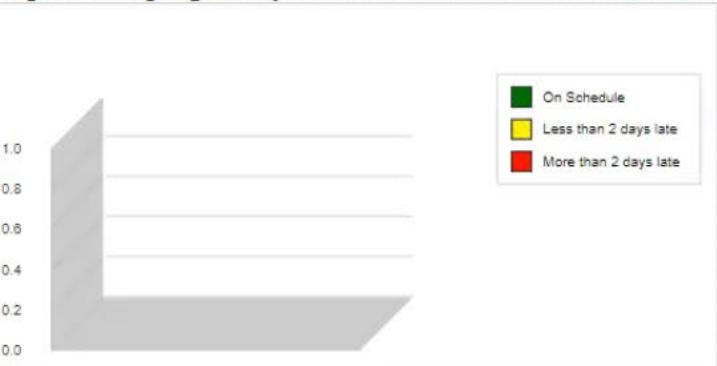
Responses in progress by CURRENT ACTIVITY



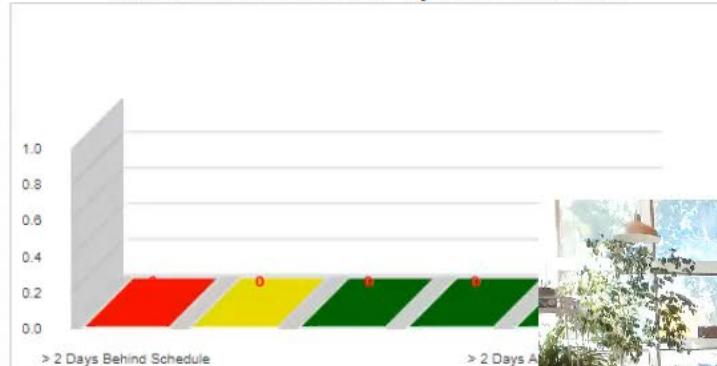
SCHEDULE STATUS by Baseline Date



Responses in progress by GROUP and SCHEDULE STATUS



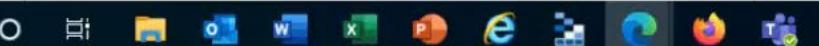
SCHEDULE STATUS by NRC Due Date



3 Day Lookahead by CURRENT ACTIVITY



Type here to search





Contentions Tracking System

The Contentions Tracking System is a tool that supports the NRC Atomic Safety and Licensing Board (ALSB) hearing process. It was developed under the guidance of DOE OGC and its external counsel.

The distinct regulatory processing order of Part 2 is followed. This system keeps track of those activities needed to work through the Hearing Process and makes progress and scheduling for contentions available.

- Contentions are filed by Intervenors, and copies are entered into this system.
- Planning and strategy documents are captured here for review
- Depositions related to those contentions
- Correspondence, both directly and indirectly relevant to the hearings, is also captured

Regulatory purpose:

- 10 CFR Part 2, licensing proceedings processes, especially Subpart C





Technical Library (TechLib)

This is a library management system used to manage the collection of external publications acquired as references cited in project documents.

Publications typically consist of books, technical papers, and professional journals.

The system catalogs and tracks information about each publication and the copyright clearance status for referencing in project documents

Requirements:

- This system is largely necessitated by practical need for a technical library and standard library management practices, as well as U.S. copyright law compliance, NRC reference requirements stated in 10 CFR Part 2, and technical document checking requirements for QA.



TechLib (cont.)

The system allows users to search the library collection by keyword, catalog number, title, author, subjects, etc.

Functions available to the librarians include check-out publications to project personnel, purchasing publications, loaning materials between libraries

The current Cloud application preserved the functionality and stored information of the legacy system while providing a contemporary interface and database

System testing was conducted using a side-by-side comparison of the functionality between the legacy system and the NWM Cloud application to confirm correct operation.

Open Text Library Management x Open Text Library Management x | +

Not secure | 6abb244f-vm-0/Techlib/techframe.asp

Resources Cataloging Circulation Serials Acquisitions Administration POWERED BY OPENTEXT

Select a resource by clicking on its name.

Open Text	Open Text Home Page
Collections Server	Open Text Collections Server
Library Management	Open Text Library Management
Command procedures	Command procedures description

Overview
Topics
OPAC
Quit

OUO



Lotus Notes databases
converted to MS PowerApps



Historical Lotus Notes Databases

The YMP used Lotus Notes for hundreds of databases

- Some supported QA processes and requirements
- Some served critical administrative functions
- Some supported organizations, teams, and short-term projects, e.g., action trackers, work-order systems, or managing document reviews
 - Dozens of document development and review databases and storyboards
 - Various team sites and directories
- Some were ephemeral information resources, surveys, bulletin boards
 - ICLIPs
 - Corporate Challenge
 - Calendars and announcements

LN databases conversion to MS Power Apps

We reviewed around 380 Lotus Notes databases.

- **First**, we screened out the ones that we determined were no longer used by 2007 (e.g., dozens of document review sites; tools that were abandoned or replaced)
- **Second**, we reviewed the remainder to determine whether they were important to project requirements or critical functions, screening out those that were clearly not
- **Third**, we searched procedures and desk instructions to identify potential requirements for use; applications that support of QA processes or DOE requirements were preserved.
- **Finally**, a few databases serving administrative functions like correspondence and communications management were judged to be of enough potential value to preserve, even though they don't derive from explicit program requirements.

In the end, we converted 11 databases into new MS Power Apps.



Correspondence Control and Correspondence Tracking Systems

Correspondence Control captures incoming and outgoing correspondence in a centralized library and routes items to the appropriate recipients. Correspondence tracking routes outgoing correspondence for awareness, review, or approval from the appropriate parties before it is sent.

Requirement/purpose:

These tools do not directly fulfill any QA or regulatory requirements, but they implement processes outlined by a variety of administrative procedures, including those guiding interactions between OCRWM and the NRC and Nuclear Waste Technical Review Board, which refer to use of these systems, and they help to formalize contractual communications.

Power Apps CC5 - Power Apps CTS11 - Power Apps

https://make.gov.powerapps.us/environments/Default-1b544066-1920-44c1-80c9-405d504ec412/apps?utm_so...

Environment Nuclear Waste Manage...

Power Apps

Home

Learn

Apps

Create

Dataverse

Flows

Chatbots

AI Builder

Solutions

+ New app Edit Play Share Export package Add to Teams Monitor My apps

Apps Component libraries (preview)

Name	Modified	Owner	Type
CTS Data Dictionary V3	4 wk ago	Brian Sims	Canvas
CTS11	4 wk ago	Brian Sims	Canvas
CCS5	4 wk ago	Brian Sims	Canvas
DRCAR	4 wk ago	Brian Sims	Canvas
Technical Products Impact Review	1 mo ago	Richard Schetnan	Canvas
Document Action Request	1 mo ago	Richard Schetnan	Canvas
ESH Manual	1 mo ago	Richard Schetnan	Canvas
Incident Log	1 mo ago	Richard Schetnan	Canvas
Communications Action Tracking	1 mo ago	Richard Schetnan	Canvas
Suspect and Counterfeit Items	1 mo ago	Richard Schetnan	Canvas
GENTS	1 mo ago	Richard Schetnan	Canvas
Regulatory Analysis	1 mo ago	Richard Schetnan	Canvas
Consistency In Communication	1 mo ago	Richard Schetnan	Canvas
DOE Concurrence	1 mo ago	Richard Schetnan	Canvas
Qualified Supplier	1 mo ago	Brian Sims	Canvas
Supplier Evaluation Report V2	1 mo ago	Brian Sims	Canvas

notesclient3 - Remote Desktop Connection

Discover - IBM Notes

File View Tools Window Help

Open

Discover Correspondence Control System - Corr... Correspondence Tracking System - 1...

IBM Notes

What's New For New Users Hints and Tips Quick Links

Notes Applications

Mail Calendar Contacts To Do Notebook

Tip of the Day

Log into Notes when you start your computer. Choose File > Security > User Security. Note: You must have installed the Client Single Logon Feature.

Type here to search

4:08 PM 10/29/2021

CIC (Consistency in Communications) Automated Review System

The Consistency in Communications (CIC) Automated Review System is a tool that reviewed and authorized public release materials for a public audience in a process much like the Sandia “R&A” review and approval process.

Requirement/purpose:

The Consistency in Communications (CIC) Automated Review System does not directly fulfill any QA or regulatory requirements; it implements DOE information management policies and requirements, and it implements processes outlined by a variety of administrative procedures, including:

- DOE G 241.1-1A, Guide to the Management of Scientific and Technical Information
- DOE Order 241.1A, Scientific and Technical Information Management
- DOE Order 1340.1B, Management of Public Communications Publications and Scientific, Technical, and Engineering Publications
 - POL-RW-2003-003, *Consistency in Communications Policy*
 - DM-PRO-003, *Review and Approval for Release of Technical and Nontechnical Products to the Public*

NWM Windows 10 Desktop

Power Apps Consistency In Communication

https://apps.gov.powerapps.us/play/ad390873-1979-41a2-8909-d1aa390d4def?tenantId=1b544066-1920-44c1-80c9-405d504ec412&source=portal&scre...

Power Apps | Consistency In Communication

Consistency In Communication (CIC) Automated Review System

Search 

Due Date Requestor Status Completed Request Request Date

Request Date	Requestor	Request	Comments
9/28/2021	Richard Schetnan	CIC-2021-1: Event name: Presentation title	 



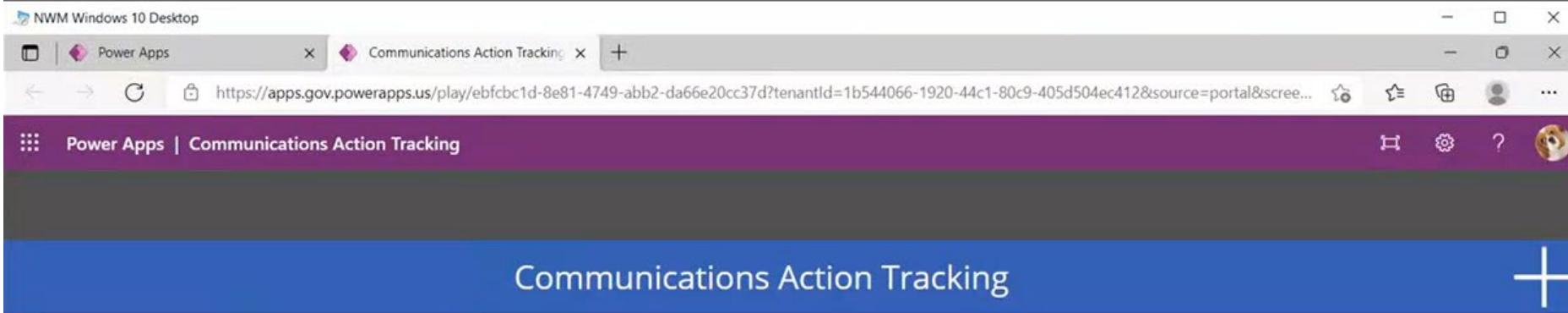
Communications Action Tracking

The Communications Action Tracking system is an enabling tool for public communications, part of a suite of tools that support that functions. This tool ensures that public requests for information are identified and tracked toward a timely response with input from the correct resources.

Requirement/purpose:

The Communications Action Tracking system does not directly fulfill any QA or regulatory requirements; it implements DOE information management policies and requirements, and it implements processes outlined by a variety of administrative procedures, including:

- NP-DSK-1019, *Use and Maintenance of the Master Communications Database/Calendar*



Open Inquiries

Pending
Inquiries

Closed
Inquiries

Date Assigned	Date Received	Name	Organization	Assigned To	Action Date	Action Completed By
10/29/2021	10/29/2021	Michael Vigil	NA Test	Paul Meacham (CONTR)	10/29/2021	Paul Meacham (CONTR)



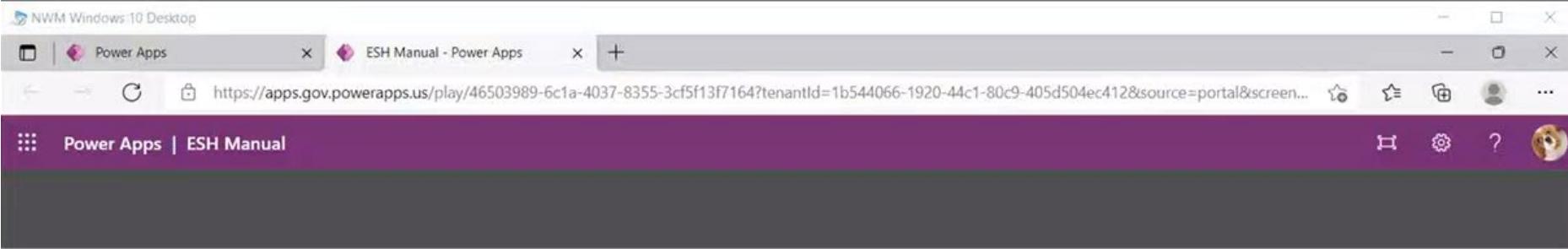
ES&H Electronic Manual

The Environmental, Safety, and Health (ES&H) Electronic Manual is a virtual compilation of all ES&H program elements, procedures and other ES&H related documents and program information that implement the ES&H requirements of Federal and state laws, regulations, standards, and U.S. Department of Energy (DOE) directives applicable to DOE OCRWM.

Requirement/purpose:

The ES&H Electronic Manual does not directly fulfill any QA or NRC regulatory requirements. It implements DOE ES&H policies and requirements and fulfills information requirements and supports processes outlined by a variety of administrative policies and procedures, including:

- 10 CFR Part 851, Energy: Worker Safety and Health Program
 - MIS-CRW-ES-000001, *Safety and Health Manual*
 - SA-PRO-1008, *Hazards Analysis System*
 - EV-PRO-4001, *Environmental Permitting*



Environmental, Safety & Health Electronic Manual

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[Alphabetical List](#)

Welcome to The Environmental, Safety & Health Electronic Manual

Introduction

This Environmental, Safety, and Health (ES&H) Electronic Manual is a virtual compilation of all ES&H program elements, procedures and other ES&H related documents and program information that implement the ES&H requirements of Federal and state laws, regulations, standards, and U.S. Department of Energy (DOE) directives applicable to the Office of Civilian Radioactive Waste Management (OCRWM) Office of Repository Development (ORD).

The Manual provides functional, organized access to current ES&H requirements, program documents and related information. It contains a table of contents organized by program elements. Each program element contains content summaries to assist the user in locating the appropriate requirements for the desired subject matter. Doclinks, color coded to indicate source, are provided to connect the user with Intranet and Internet sites containing ES&H procedures and requirements. Intranet sites include the Lotus Notes OCRWM Program Documents database, the ES&H Information database and other related links. Internet sites include the regulations and standards of applicable regulatory agencies to include the DOE Directives through the internal S/RID Database.

The ES&H Manual supports the DOE commitment to ensuring each employee is provided with a safe and healthy work environment. It incorporates Integrated Safety Management (ISM) principles and functions contained in the Integrated Safety Management Plan, DOE/RW-0523, and LP-1.1Q-OCRWM, Organization.

Notes

Internet and Intranet links are coded to indicate the following:

- internal links to OCRWM Program Documents, burgundy text (ex: [PRC-AB-0001](#))
- internal links to other Lotus Notes databases, green text (ex: [First Aid](#))
- links to Orders and Requirements, blue text (ex: [DOE Order 1234](#))



Incident Log

During emergency operations, the Incident Log provides a shared electronic log-keeping and communications capability between emergency facilities located, for example, at field sites and various office locations. It also allows the log to be displayed in an Emergency Operations Center and shared in other locations.

Requirement/purpose:

The Incident Log application supports emergency response operations, both during drills and in actual incident response. It is one of the ES&H functions required to manage workplace facilities.

The requirements sources that make this application necessary and describe its use include:

- 10 CFR Part 851, Energy: Worker Safety and Health Program
 - AP-EP-001, *Yucca Mountain Project Emergency Operations Center*
 - EM-DSK-4000-2000, *Incident Log Operations*

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Power Apps Incident Log - Power Apps

https://apps.gov.powerapps.us/play/a3003da9-8273-4dc0-a0ca-68d367d4d50f?tenantId=1b544066-1920-44c1-80c9-405d504ec412&source=portal&sc...

Power Apps | Incident Log

Incident Log

Current Emergencies Archived Emergencies Quick Reference

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Date and Time	By	Description
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Contractor/Supplier Condition Reporting (DR/CAR)

The DR/CAR database is an application that enables QA oversight of external contractors who do not participate directly in the Corrective Action Program. This system captures deficiencies and tracks corrective actions through implementation and acceptance.

Requirement/purpose:

The regulatory and QA requirements supported by this system, and implementing procedures include:

- 10 CFR 72.154, Control of purchased material, equipment, and services
- DOE QARD, Section 7, Control of Purchased Material, Equipment and Services
- DOE QARD, Section 16, Corrective Action
 - LP-16.2Q-OCRWM, *Management of Conditions Adverse to Quality for External Organizations*
 - QA-PRO-1043, *Managing Supplier Condition Reports*.

This is one of the three critical tools that serve as part of a program to manage external suppliers and their compliance with QA standards. This oversight of purchased material, equipment, and external services is a representative aspect of a mature QA organization.

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Power Apps DRCAR - Power Apps

https://apps.gov.powerapps.us/play/9f17a231-c394-4dfe-9c8a-c5a4fb64a873?tenantId=1b544066-1920-44c1-80c9-405d504ec412&source=portal...

Power Apps | DRCAR

DR/CAR

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Num	Current Action	Due Date	Status	Subject	Report Type
LVMO-98-D-058	Closed (void)	12/30/1899	Void	WELDING SHIELDING GAS USED IN THE WELDING OF STEEL SETS WAS NOT IDENTIFIED AS A COMMERCIAL GRADE ITEM	DR
LANL-99-D-022	Void 2/22/99	12/30/1899	Void	Performing Scientific Investigation Without Detailed Procedures	DR
LVMO-98-D-013	CLOSED (VOID)	12/30/1899	Void	Individual not trained before revising documents	DR
OQA-98-D-112	Closed	12/30/1899	Void	NO QA REVIEW OF TECHNICAL REPORTS	DR
LVMO-99-D-078	Voided 8/5/99	12/30/1899	Void	Preliminary GPS Surveying Data was Sent to Users Prior to Submittal to the ATDT System Without Being Marked as Required	DR
LVMO-00-D-016	Close Date 11/5/99	12/30/1899	Void	WI's Impacted by Revised Engineering Drawings, Specifications, or Procedures Not Properly Revised	DR
LVMO-99-D-035	Close Date 4/8/99	12/30/1899	Void	Missing Position Descriptions and Lack of QA Indoctrination and/or Training Records	DR
LANL-98-D-021	CLOSED (VOID) 5/29/98	12/30/1899	Void	IMPLEMENTING PROCEDURES DO NOT ADEQUATELY ADDRESS "CONFIGURATION CONTROL BOARD ACTIVITIES"	DR
LVMO-99-C-004	Close Date 6/29/99	12/30/1899	Void	Failure Of The M&O Work Control (Work Package) System	CAR



Qualified Supplier List

The Qualified Supplier List is a database of authorized suppliers of quality affecting materials and products.

Requirement/purpose:

In addition to the NRC's regulations for a QA program including control of purchased material, equipment, and services that were outlined for the DR/CAR application, the process requirements and procedures that supported by this system include:

- DOE QARD, Section 7, Control of Purchased Material, Equipment and Services
- DOE QARD, Section 16, Corrective Action
 - RWQA-PRO-001, *Supplier Evaluation and Maintenance of the Qualified Suppliers List*
 - QA-PRO-1042, *Supplier Evaluation and Qualified Supplier List (QSL) Maintenance*

The Qualified Supplier List is one of the three critical tools that serve as part of a program to manage external suppliers and their compliance with QA standards. This need for oversight of purchased material, equipment, and external services is a representative aspect of a mature QA organization.

Power Apps | Qualified Supplier

Qualified Supplier

[New Supplier](#)

Search for

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Supplier	Scope	QA Program	Restrictions
Argonne National Laboratory (ANL) Chemical Technology Division 9700 South Cass Avenue Argonne, IL 60439	Unsaturated testing of West Valley Demonstration Project (WVDP) and Defense Waste Processing Facility (DWPF) glass, unsaturated dissolution test	1-2, 4-7, 12, 15-18, Supplements I, II, III	Per Condition Report 7875, this supplier shall not procure or use any chemical standards or reagents in quality affecting work that
Corrosion Testing Laboratories, Inc. (CTL) 60 Blue Hen Drive Newark, DE 19713	Corrosion Analysis - Determination of Alloy 22 Crevice Corrosion Propagation Kinetics and Key Crevice Severity Parameter	1,2,4-7,12, 15-18, Supp I, II, & III	Per Condition Report 7875, the supplier may not conduct analysis and data collection regarding the use of chemical standards and reagents that
DuBose National Energy Services (NES), Inc. 900 Industrial Drive Clinton, NC 28328	American Society of Mechanical Engineers (ASME) Material Supplier and Fabrication Services.	None	N/A



Suspect/Counterfeit Items

This is a database of counterfeit materials, parts, or equipment, based on external notification or from internal identification of issues.

Requirement/purpose:

In addition to the NRC's regulations for a QA program including control of purchased material, equipment, and services outlined above (i.e., 10 CFR 71.115 and 72.154), the requirements sources and procedural processes that make this application necessary include:

- DOE O 414.1C, Attachment 3, Suspect/Counterfeit Items Prevention
- DOE QARD, Section 7, Control of Purchased Material, Equipment and Services
- DOE QARD, Section 16, Corrective Action
 - RWQA-PRO-001, *Supplier Evaluation and Maintenance of the Qualified Suppliers List*
 - QA-PRO-1072, *Suspect/Counterfeit Item Reporting*

The Suspect/Counterfeit Items database is one of the three critical tools that serve as part of a program to manage purchased material and equipment and external suppliers and their compliance with QA standards. This need for oversight of purchased material, equipment, and external services is a representative aspect of a mature QA organization.

Power Apps | Suspect and Counterfeit Items

Counterfeit and Suspect Items

Search 

Item	Model	Equipment	Location	Supplier	Date Entered
Wire, Conductor	4/0 THHN/THWN	Alan Wire	LANL	Rden Electric	11/7/2002 5:00 PM
Wire Rope, bulk	Aircraft Cable	Strandflex Cable		Miscellaneous	12/17/2000 5:00 PM
Wire Rope Sling	N/A	N/A	LANL	Unknown	3/27/2002 5:00 PM
Valves	UF-6 and others	Varies	N/A	Hunt Valve	7/12/2004 6:00 PM
Vacuum Pump, and replacement blades manufactured by Dieterhlo	VTB250 (05)	N/A	N/A	Republic Sales and Manufacturing, Dallas, TX	8/26/2004 6:00 PM
Uni-Strut & Grade 5 Bolts	N/A	N/A	Lawrence Livermore National Lab	N/A	9/9/2007 6:00 PM
Turnbuckles	unknown	unknown	N/A	unknown	10/25/2005 6:00 PM



Technical Products Impact Review (TPIR)

This application is a work control tool that supports the Impact Review Action Notice (IRAN) processes that identify and respond to impacts to and from data in the Technical Data Management System.

Requirement/purpose:

This is a nonessential work aid that assists in tracking progress of Impact Review Action Notices associated with technical data. The requirements sources that describe the use of this application include:

- QARD Supplement III, Scientific Investigation (*indirect support of the process; direct QA requirements are fulfilled by the TDMS system itself)
 - *TST-PRO-001, Submittal and Incorporation of Data to The Technical Data Management System*
 - *SCI-PRO-003, Document Review*

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Power Apps Technical Products Impact Review

https://apps.gov.powerapps.us/play/e27142b3-3ede-48f1-b013-58ca6cb7fb04?tenantId=1b544066-1920-44c1-80c9-405d504ec412&source=portal&scr...

Power Apps | Technical Products Impact Review

Technical Products Impact Review

Search for record

All Reviews Days in Process Overdue Not Complete

IRAN	DTN	Creation Date	Review Type	Document Title	Due Date	Completed Date
1	MO2109TEST	10/30/2021	Impact Review - DTN	TEST Impact Review	11/26/2021	>

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Document Action Requests (DARs)

Database

This application supports procedural processes that allow any person to propose changes to project procedures, and then manages review and approval of the request and prioritizes those changes by immediacy of need.

Requirements/purpose:

The requirements and procedural processes supported by this application include:

- QARD Section 6. Document Control
 - AP-5.1Q, *Procedure Preparation, Review, and Approval*

NWM Windows 10 Desktop

Power Apps Document Action Request - Pow...

https://apps.gov.powerapps.us/play/a56a1cd3-4ccd-4774-a8e6-32bd4da312b8?tenantId=1b544066-1920-44c1-80c9-405d504ec412&source=portal&sc...

Power Apps | Document Action Request

Document Action Requests

Search

DAR #	Doc #	Request Date	Requester	Organization	Responsible Manager	Status
D37576	TST1	10/30/2021	Michael Vigil	Director, OCRWM	Paul Meacham (CONTR)	PENDING

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USA RS Regulatory Analysis

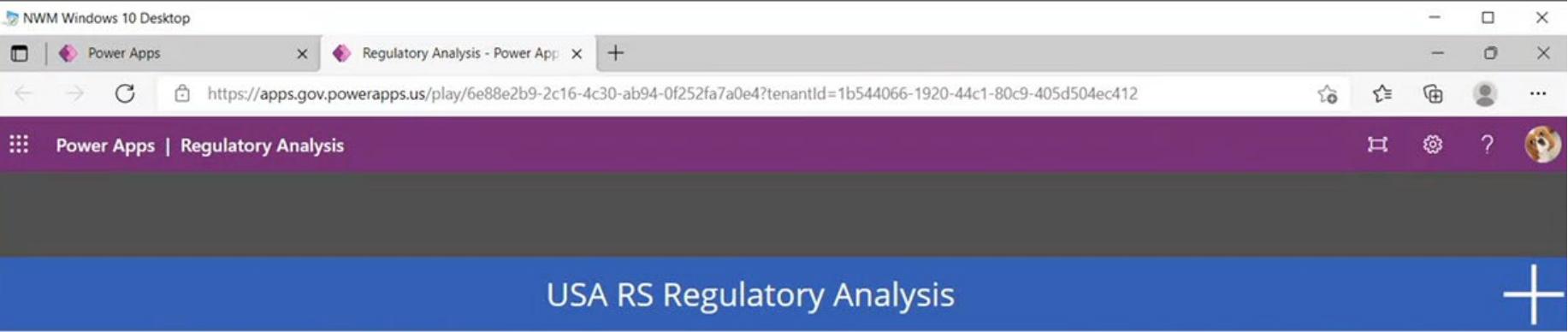
(Contractor Requirements Impacts Analysis)

This application helps in the implementation of the requirements management program by identification and review of potential external changes to requirements, such as new regulatory guidance, changes in the law, or changes to contractual agreements.

Requirement/purpose:

The procedural processes supported by this application include:

- RQ-PRO-1000, *Managing Requirements*
- RQ-DSK-1002, *Requirements Management System Administrator's Guide*



Tracking Number	Type	Code	Subject	Responsible Person	Effective Date	Current	Future	Response Due
T1234	Proposed	Test Title	Test Subject	Paul Meacham (CONTR)	11/30/2021	No	No	11/20/2021



Other File Archives

These aren't applications, per se, they're collections of files, mainly two:

- The "O:drive," which is the YMP fileserver, organization drives; includes the PDS3D design model and CAD files.
- The Lotus Notes Email warehouse, which is accessible via a Lotus Notes client; LN applications databases are also available.

They are both available to search and retrieve files, if needed.



NWM Cloud O&M Support



NWM O&M Support

The current approved/funded O&M level of support includes the following scope:

- The Cloud environments/data and applications are monitored and kept available for a very small group of customers (up to 5)
- The applications are used for search of content only
- ATO authorization and required security assessments are maintained
- The minimal licensing levels for COTS SW and Cloud vendor services are maintained

- Special requests for added/updated functionality would require a quote for service and additional funding

NWM O&M Support



Specific Examples of O&M Support

- A limited Help-Desk capability to be used to reach the cloud support team regarding account/access issues or to report application bugs. Cloud support team member(s) are available standard business days, M-F, 8:00-5:00 MST.
- Provide end user and cloud support team accounts/access/security management.
- Up to 5 end users will be authorized to use environment for search of records material.
- Maintain ATO, and ATO approvals, as needed ensuring security controls are implemented/updated as required and ATO security assessments are completed on-schedule.
- Monitor cloud services. Keep services/environments functional and security patched as required by Cloud Vendor and/or for ATO maintenance. Cloud environment(s) costs, performance, and usage are monitored/reviewed by the cloud support team and reported annually to DOE NE-8 Sponsor.
- Monitor NWM applications. Patch applications as required by COTS SW vendors and for ATO maintenance. No application updates included for anything other than security issues that impact the ATO; quotes would be provided for special requests.
- Legacy Application issues created by required cloud vendor, COTS SW, or ATO patching will be reviewed and documented for future remediation. Only those issues that negatively affect the records search capability in the RDMS Legacy Application needed by the 5 authorized users, will be remedied/fixed when discovered.
- Cloud and COTS software contracts are kept current/active/renewed. The minimum level of licensing allowed for each application will be maintained for the cloud support team and 5 authorized users.
- Data is available for read-only search, no content additions or updates, by DOE, OGC, & LM via these 5 users.
- Limited initial Legacy Application orientation provided by SMEs upon completion of Legacy Application implementation in the Cloud.