

**Idaho Completion Project**

***Test Area North  
Completion***

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***Life-Cycle Baseline***

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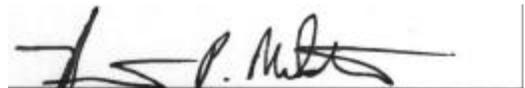
WBS-A.1.02

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**APPROVAL/CONCURRENCE**

  
PCE Manager

4/3/03  
Date

  
WBS LEVEL 3 Manager

4/3/03  
Date

\_\_\_\_\_  
DOE-ID Manager

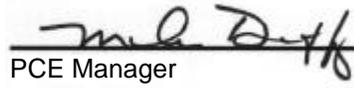
\_\_\_\_\_  
Date

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DOE-ID Chief Financial Officer

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Date

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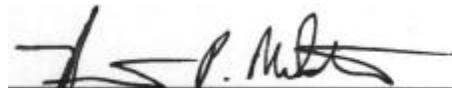
**APPROVAL/CONCURRENCE**

  
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PCE Manager

\_\_\_\_\_ **4/3/03** \_\_\_\_\_

Date

  
\_\_\_\_\_

WBS LEVEL 3 Manager

\_\_\_\_\_ **4/3/03** \_\_\_\_\_

Date

\_\_\_\_\_

DOE-ID Manager

\_\_\_\_\_ Date \_\_\_\_\_

\_\_\_\_\_

DOE-ID Chief Financial Officer

\_\_\_\_\_ Date \_\_\_\_\_

# **TAN Completion**

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# TAN Completion

## OBJECTIVE

Test Area North (TAN) is located at the north end of the Idaho National Engineering and Environmental Laboratory (INEEL), about 27 miles northeast of the Central Facilities Area. TAN is comprised of three operations areas: the Contained Test Facility (CTF), the Technical Support Facility (TSF), and the Water Reactor Research Test Facility (WRRTF). A fourth area, the Initial Engine Test area, is inactive, and is not part of this life-cycle baseline.

The CTF is located at the west end of TAN. The major program now located at the CTF is the Specific Manufacturing Capability (SMC), and this program will be transitioned to the Office of Nuclear Energy (NE). A reactor research program was located at the CTF in the Loss-of-Fluid Test (LOFT) facility, and this facility will remain with the Office of Environmental Management (EM) and is addressed in the TAN Completion Project. The LOFT facility is not considered a nuclear facility.

The TSF is the main administration, assembly, and maintenance area for TAN, and is managed by EM. Spent nuclear fuel (SNF) storage on pads and a hot shop facility are the main operation. Portions of TAN-607 and the SNF pads are considered nuclear facilities with a hazard category of 2.

The WRRTF is located about one mile south of the CTF/TSF fenced area and is not considered a nuclear facility. EM manages this facility.

This objective of this project is to accelerate the cleanup of TAN as discussed in the "Environmental Management Performance Management Plan of Accelerating Cleanup at the INEEL," DOE/ID-1106, July 2002 and reflected in the following three strategic initiatives:

- Accelerate Consolidation of Spent Nuclear Fuel to the Idaho Nuclear Technology and Engineering Center
- Accelerate Remediation of Miscellaneous Contaminated Areas
- Accelerate Consolidation of INEEL Facilities and Reduce Footprint.

Transferring spent nuclear fuel into dry storage from TAN-607 (at TSF) has helped eliminate some of the environmental risks inherent in underwater storage. However, further deactivation and demolition of this facility and others reduces environmental risk and the Office of EM footprint, reduces the number of facilities requiring intensive security, and reduces the annual costs of maintenance, operations, and managing the spent nuclear fuel. Consolidating spent nuclear fuel management to the Idaho Nuclear Technology and Engineering Center (INTEC) further reduces spent nuclear fuel management costs and removes infrastructure requirements at TAN.

The INEEL has established 10 Waste Area Groups (WAGs) across the site to address remediation of contaminated areas under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Federal Facilities Agreement and Consent Order. Expediting remediation work at the INEEL WAGs enables risk reduction, footprint reduction and consolidation to be completed on an accelerated schedule. This, in turn, allows for mortgage reduction savings to be reinvested to further accelerate cleanup and risk reduction. Remedial actions at TAN (WAG-1) are coordinated with other EM cleanup objectives and accomplished in an expedited manner. This optimizes remedial and post closure actions that constitute long-term operations, maintenance, and monitoring for both Resource Conservation and Recovery Act (RCRA) and CERCLA actions, and periodic regulatory reviews of the effectiveness of remedial and post closure actions taken at the INEEL.

The Voluntary Consent Order (VCO) with the State of Idaho identifies actions that must occur to resolve possible RCRA violations. At TAN, these VCO actions affect the TAN-616 low-level radioactive waste system, and a list of active waste tanks, inactive waste tanks and inactive process/product tanks located at TSF, CTF and WRRTF. Resolving these actions in accordance with the milestones negotiated with the State of Idaho reduces environmental risk at TAN.

Cost reductions expected from the overall accelerated cleanup plan are a result of eliminating infrastructure costs by aggressive consolidation of cleanup operations, primarily to the INTEC, and closure of facilities at other INEEL areas. The acceleration strategy is critical to implementation by fully integrating the closure of an entire area as opposed to a facility-by-facility basis. Thus, INEEL deactivation, decontamination and decommissioning (D&D&D)<sup>a</sup> plans and objectives have been developed to support the accelerated cleanup goals. Specifically, TAN facilities have been identified, facility transition plans are in place and facility footprint reduction goals have been established. TAN will transition 61 buildings and structures to NE as necessary to carry out the SMC mission and site operation (NE has accepted 24 so far). The 93 remaining buildings and structures will undergo closure processes ranging from operational to deactivation to decommissioning.

## **TECHNICAL CONTENT**

The TAN Completion Project consists of all the EM-related work within the confines of the TSF, CTF and WRRTF perimeter fences, except for the SMC. The SMC, which is located west of LOFT, is not included in the TAN Completion Project. The project also includes some restoration work near WRRTF that is outside the WRRTF perimeter fence. The Initial Engine Test area is not included in the TAN Completion Project.

## **WORK STATEMENT FOR FY 2004 TO PROJECT END**

The TAN Completion Project is divided into five subprojects based on minimizing project interfaces and grouping similar work:

1. TAN-SP0, TAN Project Support and Facility Authority
2. TAN-SP1, TAN 607 Facilities
3. TAN-SP2, WRRTF Facilities
4. TAN-SP3, LOFT Facilities
5. TAN-SP4, TSF/Balance of TAN.

The TAN Project Support and Facility Authority Subproject (TAN-SP0; WBS A.1.02.00.00) includes the control of schedules and cost accounts, planning, budgeting and developing progress reports to the Department of Energy Idaho Operations and Bechtel BWXT Idaho upper management, procurements, training, document control, record keeping and administrative support. The facility authority function also includes safety basis control, TAN landlord services and a portion of the project management for the other subprojects in the TAN Completion Project, including maintaining the TAN long-range and end-state plans.

TAN 607 Facilities Subproject (TAN-SP1; WBS A.1.02.00.01) removes the water from the basins, plans and performs CERCLA, RCRA (including VCO), and other remediation, and performs out-of-service shutdown. The CERCLA and VCO work includes V-tank remediation and TAN-616 closure. Other buildings and structures related to TAN-607 operations are included within the project scope.

The WRRTF Facilities Subproject (TAN-SP2; WBS A.1.02.00.02) completes VCO characterization at WRRTF, and deactivates and decommissions the WRRTF area.

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<sup>a</sup> Deactivation – The process of placing a contaminated excess facility in a stable condition to minimize existing risks and the related life-cycle cost of a surveillance and maintenance program that is protective of workers, the public and the environment. (DOE G 430.1-3)

Decontamination – The process of removing contamination at DOE facilities. “Contamination” refers to both radioactive contamination and to hazardous substance contamination.

Decommissioning - A phase where the facility is taken to its ultimate end state through decontamination and/or dismantlement to demolition or entombment. (DOE G 430.1-4)

The LOFT Facilities Subproject (TAN-SP3; WBS A.1.02.00.03) renders the SMC independent from the remainder of the TAN utility system, deactivates all EM facilities in the CTF area followed by selected decommissioning. All VCO RCRA characterization and follow-on actions at the CTF LOFT area are completed. As part of the VCO, this subproject also isolates piping systems to ensure that non-hazardous tanks cannot be contaminated."

The TSF/Balance of TAN Subproject (TAN-SP4; WBS A.1.02.00.04) moves the SNF from the dry storage in casks on the TAN-791 pad to the INTEC, when storage at INTEC becomes available. Then the project deactivates and decommissions all the remaining TSF facilities that are currently without further mission. This project will complete the remaining environmental remediation required under the Federal Facilities Agreement and Consent Order that is not being performed in subproject TAN-SP1, TAN 607 Facilities, as well as remaining VCO issues. These projects comprise all the work needed to accomplish the EM cleanup mission at TAN with the exception of long term monitoring and surveillance, which will be managed under a separate project, the INEEL Surveillance Monitoring and Long-Term Operations.

### **PROJECT KEY DELIVERABLES**

The TAN Completion Project key deliverables are identified in the "Environmental Management Performance Management Plan of Accelerating Cleanup at the INEEL," DOE/ID-1106, July 2002. They include:

- Consolidate spent nuclear fuel from the TAN storage pad to a new cask storage pad at the INTEC by September 2005 (Strategic Initiative [SI] 4.3)
- Complete transfer of all SNF from the TAN pool to existing dry storage casks on a storage pad by September 2002 (SI 4.3) Completed.
- Complete characterization of all VCO tanks by September 2005 (SI 4.5)
- Complete remediation and closure of all VCO tanks by September 2012 (SI 4.5)
- Complete remediation of TAN (WAG 1) by September 2005, except for the ongoing pump and treatment of the groundwater (SI 4.5)
- Complete removal of soils destined for the ICDF by September 2013 (SI 4.5)
- Complete consolidation and reconfiguration of TAN by the end of September 2004 (SI 4.9)

### **PROJECT KEY ASSUMPTIONS**

The project key assumptions are divided into planning basis and external milestones. More detailed assumptions are included in the cost estimates and are considered included by reference.

#### **PLANNING BASIS**

- All resources planned are available to perform the work when scheduled.
- All site activities are planned using the 4-10 calendar.
- All SNF at TAN will be shipped to INTEC in 2005.
- All VCO tanks systems in the TAN Completion Project are characterized and documentation submitted to the DEQ during FY 2003.
- Ground water monitoring at TAN is excluded.
- Minimal surveillance and maintenance costs for maintaining TAN-607 and the CTF facilities will be associated with TAN from 2012 through 2020. Surveillance and maintenance costs will continue until TAN-607 and the CTF facilities have been decommissioned.
- National Environmental Policy Act documentation is prepared at a project level rather than at the activity level.
- No spent nuclear fuel, mixed low-level waste, or low-level waste remains at TAN after 2005, other than that generated by remediation, deactivation and decommissioning activities.

- TAN-628 is used to store and transfer RCRA mixed, hazardous and Toxic Substances Control Act contaminated waste for final disposition.
- The Initial Engine Test area is not addressed by this project. The area is assumed to be inactive and requires no further action.
- The on-site lead recycling program accepts all non-contaminated lead.
- The shutdown of all TAN utilities; heating, ventilating, and air-conditioning; operational and electrical systems is coordinated to accomplish the shutdown of the entire TAN area.
- Underground piping and systems remain unless they are part of an identified existing or new CERCLA site or RCRA Closure; however, piping will be isolated near buildings, as appropriate.
- The Central Facilities Area (CFA) and Site Wide Completion Project provides guidance for how five-year reviews are to be conducted and reported for inclusion in the OU 1-10 O&M Plan.
- The TAN Completion Project prepares the first five-year review for the OU 1-10 TAN Comprehensive Remediation.
- The Central Facilities Area (CFA) and Site Wide Completion Project performs all subsequent five year reviews for both the OU 1-107B TAN Groundwater Remediation and the OU 1-10 TAN Comprehensive Remediation

#### **EXTERNAL ASSUMPTIONS**

- A revision to the TAN SAR to allow the TAN-607 pool water level to be lowered is approved in a timely manner to support the schedule.
- All existing fences remain.
- All existing pavement remains.
- All facilities transitioned to NE are not returned to EM for D&D&D.
- All railroad tracks remain.
- All remediation for CERCLA cleanup including D&D&D will be to industrial levels, consistent with the 100-year land use plan.
- All storage pads at TAN are left in place.
- All waste generated has a disposition path.
- EM installs all required substations, electrical transmission lines, switchgear, and breakers to isolate SMC from the rest of TAN.
- EM provides funding for all General Plant Capital Equipment, construction and crafts for disconnection of all utilities from the CTF area to SMC.
- NE commences funding all maintenance of the firewater pumps located in TAN-665 and TAN-614 that supply firewater and potable water to SMC.
- NE funds NE utility and maintenance projects within EM areas at TAN.
- NE has ownership of 24 TAN buildings. Several buildings and structures are proposed for NE (such as the TAN-701 water storage tank, and the TAN-712 deep well pump house).
- NE accepts additional EM facilities required for long term TAN Operations, including the wells, pump-house, water storage tank, and gasoline station in FY 2004 for life-cycle baseline.
- Significant re-work or additional characterization is not included to respond to DEQ comments on VCO characterization.
- Soil contamination beneath the concrete floors, if encountered, is turned over to the WAG 1 CERCLA for possible inclusion into the Federal Facility Agreement and Consent Order.

- Surface runoff wells in the TAN area, TAN-1716, -1717, -1718, and -1719, are not be addressed by this project as well as TAN-1720 Surface Runoff Pond, TAN-781 North Drainage Pond, TAN-782 South Drainage Pond, TAN-786 Drainage Disposal Well. These structures are transferred to NE.
- TAN-647 will be RCRA closed in 2003.
- The CUNO® filters have a disposition path.
- The INEEL CERCLA Disposal Facility (ICDF) is available in July 2003 to accept all CERCLA waste that meets the ICDF waste acceptance criteria current as of November 2002, and will remain open to accept all CERCLA waste from the TAN Completion Project.
- The Key Milestone in Section 4.5.4 of the July 2002 EM Project Management Plan stating: "Complete remediation of Test Area North (WAG 1) by September 2005, except for the on-going pump and treat of the groundwater" is revised to indicate June 2007 based on completion of V-Tanks soil, tanks, and piping removal and site restoration in FY 2006, and issuing the final OU 1-10 Remedial Action Report in 2007. This change is based on the DOE-ID accepted plan for the V-Tanks Path Forward to re-evaluate viable technologies and select a new remedy for the V-Tanks and the DOE-ID accepted plan to accelerate the TAN-616 D&D/VCO project to complete ahead of the V-Tanks Remediation.
- The remedy selected in the V-Tanks ROD Amendment in early FY 2004 is the preferred alternative of Chemical Oxidation and Stabilization as described in the Draft Technology Evaluation Report, DOE/ID-11038, November 2002
- The V-Tanks ROD Amendment becomes final by December 17, 2003.

## IDAHO COMPLETION PROJECT WORK BREAKDOWN STRUCTURE INDEX

WBS#	Title	Responsible Individual
A.1.02	TAN Completion	Robert P. Miklos
A.1.02.00	TAN Completion	Robert P. Miklos
<b>A.1.02.00.00</b>	<b>TAN-SP0 Project Support &amp; Facility Authority</b>	<b>Robert P. Miklos</b>
A.1.02.00.00.01	TAN Area Consolidation	
A.1.02.00.00.02	TAN Management and Support	
A.1.02.00.00.03	TAN Minimum Safe and Minimum Compliance	
<b>A.1.02.00.01</b>	<b>TAN-SP1 TAN 607 Facilities</b>	<b>Lisa Wolford</b>
A.1.02.00.01.01	TAN 607 - North Area Structures and Buildings	
A.1.02.00.01.02	TAN 607 - Central Area Structures and Buildings	
A.1.02.00.01.03	TAN 607 - South Area Structures and Buildings	
A.1.02.00.01.04	TAN 616 - Liquid Waste Treatment System	
A.1.02.00.01.05	OU 1-10 V-Tanks Remediation	
A.1.02.00.01.06	OU 1-11 V-Tank Area New CERCLA Sites	
<b>A.1.02.00.02</b>	<b>TAN-SP2 WRRTF Facilities</b>	<b>Lisa Wolford</b>
A.1.02.00.02.01	WRRTF Structures and Buildings	
<b>A.1.02.00.03</b>	<b>TAN-SP3 LOFT Facilities</b>	<b>Robert B. Clark, acting</b>
A.1.02.00.03.01	VCO LOFT	
A.1.02.00.03.02	LOFT Utility Disconnect and Reconfiguration	
A.1.02.00.03.03	LOFT D&D&D	
<b>A.1.02.00.04</b>	<b>TAN-SP4 TSF/Balance of TAN</b>	<b>Robert B. Clark</b>
A.1.02.00.04.01	SNF Pads and Material	
A.1.02.00.04.02	TSF DD&D/VCO	
A.1.02.00.04.03	TAN 607 Operational Dependent	
A.1.02.00.04.04	OU 1-10 TAN Comprehensive Remediation	
A.1.02.00.04.05	WAG 1 Cleanup Support and TAN Area New CERCLA Sites	

### MILESTONE LOG

WBS Element	Milestone Number	Description	Planned Date	Enforceable Date	Level
A.1.02.00.00.02.LC	OLMS2115	SI 4.9 Complete Consolidation of TAN	SEP-2004		E2PB
A.1.02.00.01.02.LC	1LIII2C	PBI III.2c Rem.Water/sludge/Debris TAN 607 pool	SEP-2004		E2PB
A.1.02.00.01.04.01	1LV2200	VCO TAN-008 Complete Closure Certification	JUN-2004		E2
A.1.02.00.01.05.04	1LW3111	Submit Draft ROD Amend for Agency Review	OCT-2003		E3
A.1.02.00.01.05.04	1LW3241	MS-Submit Drft Grp 2 RD/RA SOW For Agency Rev	NOV-2003		E3
A.1.02.00.01.05.04	1LW3176	MS-Final V-Tank ROD Amend, Submitted to ARDC	DEC-2003		E3
A.1.02.00.01.05.04	1LW3350	MS-Issue Final V-Tank HAD	DEC-2003		E3
A.1.02.00.01.05.04	1LW3271	MS- Issue Final Grp 2 RD/RA SOW	MAR-2004		E3
A.1.02.00.03.01.02	3LV2100	VCO TAN-020 Closure Plan Submitted to IDEQ	MAR-2005	MAR-2005	E1
A.1.02.00.03.01.02	3LV2145	SI 4.5 Comp. Remed. And Closure of VCO Tanks	SEP-2012		E2PB
A.1.02.00.03.02.LC	3LIII2A	PBI III.2a Dial Room 601	MAR-2004		E2PB
A.1.02.00.04.01.LC	4LIII2B	SI 4.3 Move Six Casks to INTEC (PBI-III 2b)	JAN-2006		E2
A.1.02.00.04.04.02	4LW2227	Complete Disposal of TSF -06/26Surface Soils	FEB-2005	FEB-2005	E1
A.1.02.00.04.04.03	4LW4001	Submit Draft Group 3 RD/RAWP to Agencies	SEP-2004	SEP-2004	E1
A.1.02.00.04.04.05	1LPBI5D	SI 4.5 CERCLA Closure @ TAN Complete (PBI I.5d)	NOV-2004		E2PB



**TAN Completion**  
Breakout by Subproject

WBS[4]	WBS[5]		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
<b>A.1.02.00 TAN Completion</b>																			
<b>BURDENED</b>																			
	A.1.02.00.00 TAN-SP0 Project Support & Facility Authority	BCWS	11,552	15,439	10,092	9,998	9,886	9,847	7,774	7,805	7,721	3,910	3,910	3,910	3,926	3,895	3,895	3,910	3,926
	A.1.02.00.01 TAN-SP1 TAN 607 Facilities	BCWS	11,924	14,735	7,867	6,604	14,587	14,450	14,130	13,160	8,323	1,218	398	0	0	6,040	6,459	3,529	2,952
	A.1.02.00.02 TAN-SP2 WRRTF Facilities	BCWS	0	2,953	4,410	2,492	673	0	0	0	0	0	0	0	0	0	0	0	0
	A.1.02.00.03 TAN-SP3 LOFT Facilities	BCWS	5,986	1,561	7,624	4,992	4,525	3,549	1,130	1,146	16	0	0	0	44	4,751	4,755	4,777	3,525
	A.1.02.00.04 TAN-SP4 TSF/Balance of TAN	BCWS	12,812	7,431	3,934	1,562	816	0	0	0	0	0	0	0	0	0	53	1,326	1,316
	<b>Results Totals:</b>	<b>BCWS</b>	<b>42,274</b>	<b>42,119</b>	<b>33,926</b>	<b>25,647</b>	<b>30,487</b>	<b>27,846</b>	<b>23,034</b>	<b>22,111</b>	<b>16,060</b>	<b>5,128</b>	<b>4,308</b>	<b>3,910</b>	<b>3,970</b>	<b>14,685</b>	<b>15,161</b>	<b>13,542</b>	<b>11,719</b>
<b>ESCALATE</b>																			
	A.1.02.00.00 TAN-SP0 Project Support & Facility Authority	BCWS	328	740	720	936	1,152	1,378	1,290	1,486	1,662	933	1,034	1,138	1,249	1,347	1,457	1,576	1,698
	A.1.02.00.01 TAN-SP1 TAN 607 Facilities	BCWS	388	737	580	611	1,685	2,007	2,301	2,461	1,762	292	102	0	0	2,081	2,407	1,405	1,259
	A.1.02.00.02 TAN-SP2 WRRTF Facilities	BCWS	0	150	314	229	76	0	0	0	0	0	0	0	0	0	0	0	0
	A.1.02.00.03 TAN-SP3 LOFT Facilities	BCWS	182	78	522	460	523	493	185	216	3	0	0	0	14	1,639	1,775	1,920	1,520
	A.1.02.00.04 TAN-SP4 TSF/Balance of TAN	BCWS	344	360	275	148	95	0	0	0	0	0	0	0	0	0	20	535	570
	<b>Results Totals:</b>	<b>BCWS</b>	<b>1,241</b>	<b>2,065</b>	<b>2,411</b>	<b>2,384</b>	<b>3,531</b>	<b>3,878</b>	<b>3,775</b>	<b>4,162</b>	<b>3,427</b>	<b>1,225</b>	<b>1,136</b>	<b>1,138</b>	<b>1,263</b>	<b>5,067</b>	<b>5,659</b>	<b>5,436</b>	<b>5,047</b>
<b>SUMMARY (Base + Escalation)</b>																			
	A.1.02.00.00 TAN-SP0 Project Support & Facility Authority	BCWS	11,880	16,179	10,812	10,934	11,038	11,225	9,063	9,290	9,383	4,843	4,944	5,048	5,175	5,241	5,352	5,486	5,623
	A.1.02.00.01 TAN-SP1 TAN 607 Facilities	BCWS	12,312	15,472	8,446	7,215	16,271	16,457	16,431	15,621	10,085	1,510	500	0	0	8,121	8,865	4,933	4,211
	A.1.02.00.02 TAN-SP2 WRRTF Facilities	BCWS	0	3,103	4,724	2,721	750	0	0	0	0	0	0	0	0	0	0	0	0
	A.1.02.00.03 TAN-SP3 LOFT Facilities	BCWS	6,167	1,639	8,145	5,452	5,048	4,042	1,315	1,362	20	0	0	0	58	6,390	6,530	6,697	5,046
	A.1.02.00.04 TAN-SP4 TSF/Balance of TAN	BCWS	13,156	7,791	4,208	1,709	911	0	0	0	0	0	0	0	0	0	73	1,861	1,886
	<b>Results Totals:</b>	<b>BCWS</b>	<b>43,515</b>	<b>44,184</b>	<b>36,336</b>	<b>28,031</b>	<b>34,018</b>	<b>31,724</b>	<b>26,809</b>	<b>26,274</b>	<b>19,487</b>	<b>6,352</b>	<b>5,444</b>	<b>5,048</b>	<b>5,233</b>	<b>19,752</b>	<b>20,820</b>	<b>18,978</b>	<b>16,766</b>

**TAN Completion**  
Breakout by Subproject

WBS[4]	WBS[5]		FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Cumulative
<b>A.1.02.00</b>	<b>TAN Completion</b>							
	<b>BURDENED</b>							
	A.1.02.00.00 TAN-SP0 Project Support & Facility Authority	BCWS	3,926	3,926	3,895	3,910	136	137,187
	A.1.02.00.01 TAN-SP1 TAN 607 Facilities	BCWS	747	694	101	60	0	127,977
	A.1.02.00.02 TAN-SP2 WRRTF Facilities	BCWS	0	0	0	0	0	10,528
	A.1.02.00.03 TAN-SP3 LOFT Facilities	BCWS	758	637	0	0	0	49,776
	A.1.02.00.04 TAN-SP4 TSF/Balance of TAN	BCWS	1,296	2,224	0	0	0	32,770
	<b>Results Totals:</b>	<b>BCWS</b>	<b>6,728</b>	<b>7,481</b>	<b>3,995</b>	<b>3,970</b>	<b>136</b>	<b>358,238</b>
	<b>ESCALATE</b>							
	A.1.02.00.00 TAN-SP0 Project Support & Facility Authority	BCWS	1,816	1,936	2,043	2,176	81	28,175
	A.1.02.00.01 TAN-SP1 TAN 607 Facilities	BCWS	347	343	53	33	0	20,851
	A.1.02.00.02 TAN-SP2 WRRTF Facilities	BCWS	0	0	0	0	0	770
	A.1.02.00.03 TAN-SP3 LOFT Facilities	BCWS	351	315	0	0	0	10,196
	A.1.02.00.04 TAN-SP4 TSF/Balance of TAN	BCWS	601	1,093	0	0	0	4,040
	<b>Results Totals:</b>	<b>BCWS</b>	<b>3,114</b>	<b>3,688</b>	<b>2,096</b>	<b>2,210</b>	<b>81</b>	<b>64,033</b>
	<b>SUMMARY (Base + Escalation)</b>							
	A.1.02.00.00 TAN-SP0 Project Support & Facility Authority	BCWS	5,742	5,862	5,938	6,086	217	165,362
	A.1.02.00.01 TAN-SP1 TAN 607 Facilities	BCWS	1,094	1,037	153	93	0	148,828
	A.1.02.00.02 TAN-SP2 WRRTF Facilities	BCWS	0	0	0	0	0	11,298
	A.1.02.00.03 TAN-SP3 LOFT Facilities	BCWS	1,109	953	0	0	0	59,973
	A.1.02.00.04 TAN-SP4 TSF/Balance of TAN	BCWS	1,897	3,316	0	0	0	36,810
	<b>Results Totals:</b>	<b>BCWS</b>	<b>9,842</b>	<b>11,169</b>	<b>6,091</b>	<b>6,180</b>	<b>217</b>	<b>422,271</b>

**TAN Completion**  
Breakout by Budget Element

WBS[4]	BE		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
<b>A.1.02.00 TAN Completion</b>																
<b>BURDENED BASE</b>																
	C	BCWS	0	1,474	3,289	2,298	3,494	3,182	2,590	2,383	1,364	37	10	0	10	2,208
	L	BCWS	30,605	25,170	20,087	14,911	16,814	15,178	13,850	13,400	10,137	3,092	2,535	2,262	2,292	7,608
	M	BCWS	3,400	529	250	121	94	93	93	94	93	0	0	0	0	0
	N	BCWS	2,439	5,103	5,855	5,992	8,145	7,549	4,685	4,437	2,763	429	193	79	91	3,208
	N_NOG&A	BCWS	1,915	1,596	1,488	1,423	1,416	1,410	1,410	1,416	1,404	1,410	1,410	1,410	1,416	1,404
	S	BCWS	3,914	8,247	2,957	902	525	435	405	381	299	160	160	160	162	257
	<b>Results Totals:</b>	<b>BCWS</b>	<b>42,274</b>	<b>42,119</b>	<b>33,926</b>	<b>25,647</b>	<b>30,487</b>	<b>27,846</b>	<b>23,034</b>	<b>22,111</b>	<b>16,060</b>	<b>5,128</b>	<b>4,308</b>	<b>3,910</b>	<b>3,970</b>	<b>14,685</b>
<b>ESCALATE</b>																
	C	BCWS	0	62	211	199	383	423	406	431	281	9	3	0	3	746
	L	BCWS	996	1,346	1,521	1,453	2,034	2,196	2,337	2,587	2,209	754	681	671	743	2,677
	M	BCWS	71	22	16	11	10	12	15	17	19	0	0	0	0	0
	N	BCWS	51	216	376	519	892	1,002	734	803	568	99	49	22	28	1,083
	N_NOG&A	BCWS	40	68	96	123	155	187	221	256	289	326	362	399	439	474
	S	BCWS	82	350	190	78	58	58	64	69	62	37	41	45	50	87
	<b>Results Totals:</b>	<b>BCWS</b>	<b>1,241</b>	<b>2,065</b>	<b>2,411</b>	<b>2,384</b>	<b>3,531</b>	<b>3,878</b>	<b>3,775</b>	<b>4,162</b>	<b>3,427</b>	<b>1,225</b>	<b>1,136</b>	<b>1,138</b>	<b>1,263</b>	<b>5,067</b>
<b>SUMMARY (Base + Escalation)</b>																
	C	BCWS	0	1,536	3,500	2,497	3,877	3,604	2,996	2,814	1,645	46	12	0	13	2,954
	L	BCWS	31,601	26,516	21,608	16,365	18,847	17,374	16,187	15,987	12,345	3,846	3,217	2,933	3,035	10,284
	M	BCWS	3,471	552	266	132	104	106	108	111	112	0	0	0	0	0
	N	BCWS	2,491	5,319	6,231	6,511	9,037	8,551	5,419	5,240	3,331	528	242	101	119	4,292
	N_NOG&A	BCWS	1,956	1,663	1,584	1,546	1,571	1,597	1,631	1,672	1,693	1,736	1,772	1,809	1,855	1,878
	S	BCWS	3,996	8,597	3,148	980	583	492	469	450	361	197	201	205	212	343
	<b>Results Totals:</b>	<b>BCWS</b>	<b>43,515</b>	<b>44,184</b>	<b>36,336</b>	<b>28,031</b>	<b>34,018</b>	<b>31,724</b>	<b>26,809</b>	<b>26,274</b>	<b>19,487</b>	<b>6,352</b>	<b>5,444</b>	<b>5,048</b>	<b>5,233</b>	<b>19,752</b>

**TAN Completion**  
Breakout by Budget Element

WBS[4]	BE		FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Cumulativ
<b>A.1.02.00 TAN Completion</b>											
<b>BURDENED BASE</b>											
	C	BCWS	2,157	1,000	720	122	75	3	2	0	26,419
	L	BCWS	7,939	6,438	5,451	4,112	4,343	2,321	2,303	136	210,983
	M	BCWS	0	0	0	0	29	0	0	0	4,797
	N	BCWS	3,311	2,114	1,745	889	763	107	96	0	59,990
	N_NOG&A	BCWS	1,404	1,410	1,416	1,416	1,416	1,404	1,410	0	30,401
	S	BCWS	350	2,580	2,388	189	855	159	160	0	25,647
	<b>Results Totals:</b>	<b>BCWS</b>	<b>15,161</b>	<b>13,542</b>	<b>11,719</b>	<b>6,728</b>	<b>7,481</b>	<b>3,995</b>	<b>3,970</b>	<b>136</b>	<b>358,238</b>
<b>ESCALATE</b>											
	C	BCWS	789	394	305	55	36	2	1	0	4,739
	L	BCWS	3,017	2,634	2,390	1,928	2,168	1,233	1,297	81	36,951
	M	BCWS	0	0	0	0	14	0	0	0	208
	N	BCWS	1,211	834	740	403	370	55	52	0	10,110
	N_NOG&A	BCWS	514	556	600	642	685	724	771	0	7,928
	S	BCWS	128	1,018	1,012	86	414	82	88	0	4,097
	<b>Results Totals:</b>	<b>BCWS</b>	<b>5,659</b>	<b>5,436</b>	<b>5,047</b>	<b>3,114</b>	<b>3,688</b>	<b>2,096</b>	<b>2,210</b>	<b>81</b>	<b>64,033</b>
<b>SUMMARY (Base + Escalation)</b>											
	C	BCWS	2,946	1,394	1,025	178	111	5	3	0	31,157
	L	BCWS	10,956	9,072	7,841	6,040	6,511	3,554	3,600	217	247,935
	M	BCWS	0	0	0	0	43	0	0	0	5,005
	N	BCWS	4,522	2,947	2,484	1,292	1,133	162	148	0	70,100
	N_NOG&A	BCWS	1,918	1,966	2,015	2,058	2,101	2,128	2,181	0	38,329
	S	BCWS	478	3,598	3,400	274	1,270	241	248	0	29,744
	<b>Results Totals:</b>	<b>BCWS</b>	<b>20,820</b>	<b>18,978</b>	<b>16,766</b>	<b>9,842</b>	<b>11,169</b>	<b>6,091</b>	<b>6,180</b>	<b>217</b>	<b>422,271</b>

# SUBPROJECT PLAN

WBS: A.1.02.00.00

Title: TAN-SP0 Project Support & Facility Authority

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PROJ Mgr:	<u>Robert Miklos</u>	Planning & Controls:	<u>Mike Duffy</u>
DOE-ID:	<u>Robert Miklos</u>	ES&H Field Manager:	<u>Charles Chebul</u>
TAN Manager:	<u>Robert Miklos</u>	Other:	<u>Robert Miklos</u>
Project Manager for Project Support and Facility Authorization			

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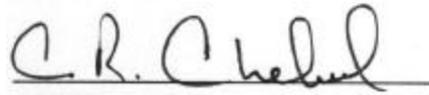
**APPROVED BY:**



Subproject Plan Manager

4/3/03

Date



ES&H Representative

4/3/03

Date

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**1. WORK DESCRIPTION:**

The Test Area North (TAN) Project Support and Facility Authority Subproject (TAN-SP0; WBS A.1.02.00.00) includes the management of schedules and control accounts; planning, budgeting, and developing progress reports to the Department of Energy Idaho Operations (DOE-ID) and Bechtel BWXT Idaho, LLC (BBWI) upper management; procurement; training; document control; record keeping; and administrative support. The facility authority function also includes safety basis control, TAN landlord services, and a portion of the project management for the other subprojects in the TAN Completion Project, including maintaining the TAN long-range and end-state plans. This subproject is complete when project support to the other subprojects is no longer needed.

This subproject is divided into three control accounts. These are TAN Area Consolidation (WBS A.1.02.00.00.01), TAN Management and Support (WBS A.1.02.00.00.02), and TAN Minimum Safe and Minimum Compliance (WBS A.1.02.00.00.03).

TAN Area Consolidation (WBS A.1.02.00.00.01) provides office, mechanical, and facility space to facilitate closure of TAN buildings and structures, including waste storage and staging, facilities to house work crews, and a security gate for ingress and egress near the Technical Support Facility (TSF). TAN-628, TAN-607 and temporary office trailers house project personnel. Facilities required for the staff involved with closing the TAN area are consolidated and other facilities and structures are transitioned to the Office of Nuclear Energy (NE) or are decommissioned. Funding for basic utilities and upkeep needed to support project personnel is provided. This includes roads and grounds upkeep (for example, repairs, pest and weed control, mowing, watering, and trash pickup), safeguards and security, building upkeep, janitorial services and supplies, potable water and heating system upkeep and supplies (including purification chemicals and fuel), automotive usage, maintenance and supplies including oil, fuel, batteries, and electrical system maintenance.

This subproject also provides funding and waste generation projections and project direction for waste and material management for all the TAN subprojects, including funding a site-wide waste and material management service, such as the Waste Generator Services, that provides all sampling and analysis required to disposition TAN waste streams. In addition, TAN Area Consolidation provides waste generation projections, siting options and funding for design, permitting and construction of one or two new industrial landfills for demolition debris.

TAN Management and Support (WBS A.1.02.00.00.02) provides overall general project management and project support. These functions and items include project director; subproject managers; contracting

## SUBPROJECT PLAN

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Title: TAN-SP0 Project Support & Facility Authority

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officers; project planning and controls management; facility authority operations; maintenance management; landlord and building management; issues management; management assessments; Issue Communication and Resolution Environment; Integrated Safety Management System implementation; environment, safety, health and quality management; construction management; procurement management; engineering management; project vehicles and travel; administrative and secretarial support; long-range and end-state plans; safety basis management; and project close out. It includes all health and safety, industrial hygiene, quality assurance and environmental activities required for the facility safety basis not included elsewhere.

Activities that support the “Environmental Management Performance Management Plan for Accelerating Cleanup of the Idaho National Engineering and Environmental Laboratory,” DOE/ID-11006, July 2002, include:

- Ensuring that work is performed in a safe, secure, and cost-effective manner, and that the Office of Environmental Management (EM) senior management strategy is reflected in work planning and execution
- Ensuring that the program effectively integrates the elements of environmental compliance, policy and project controls into day-to-day work and program planning
- Developing National Environmental Policy Act (NEPA), State Historic Preservation Office, and Housing and Urban Development documentation required for the TAN Completion Project
- Ensuring that company performance measures such as Performance Evaluation and Measurement Plan criteria and Performance Baseline Incentive Measures, Project Execution Guidance criteria, and expectations with TAN Completion Project relevance are defined, communicated to project staff and met in a timely manner within quality expectations of the customer
- Providing a single point-of-contact and accountability to BBWI senior management and DOE-ID for the TAN Completion Project while maintaining effective communication and working relationship with BBWI and DOE-ID counterparts and support organizations
- Maintaining communication with and between significant support and interface internal and external organizations involved with TAN area operations, transition to deactivation, and, ultimately, decommissioning of facilities, structures and equipment
- Providing a leadership role in the interpretation of on-the-ground implementation of DOE-ID and BBWI EM management strategies as related to the Idaho National Engineering and Environmental Laboratory (INEEL) accelerated closure
- Integrating and coordinating activities to address noncompliant situations identified in the Voluntary Consent Order (VCO), and ensure Idaho Division of Environmental Quality (DEQ) comments on VCO characterization documents are appropriately addressed
- Integrating and coordinating activities to address noncompliant situations identified in subsequent non-VCO Idaho DEQ enforceable milestones.

TAN Minimum Safe and Minimum Compliance (WBS A.1.02.00.00.03) funds all preventative, predictive, and corrective maintenance and infrastructure services required by the TAN Completion Project to maintain the facility safety basis. It funds all minimum safe and minimum compliance activities required for the safety classification of each TAN facility, funds Safety Analysis Report (SAR) revisions required under DOE orders, and revisions to downgrade the facilities as deactivation activities progress, and funds utility operations, equipment, and supplies.

Operation of the TAN-618 Data Collection Building, and the TAN-791 Spent Nuclear Fuel Storage Pad until the casks are moved to INTEC (or the pads are empty and casks have been shipped to a permanent location) is included in the TAN Minimum Safe and Minimum Compliance control account. The pad has Spent Nuclear Fuel casks and the data collection building logs surveillance data for each of the casks. Support operations include periodic inspections and surveys of the pad, and maintenance. (Hydrogen sampling of the casks stored on the TAN-791 pad is performed in another subproject.) Operation of the facility requires funding in order to store material needed for future operations. The operations include

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periodic inspections and surveys of the building, pad, inventory, and access control shed. Operations also include conducting routine maintenance on the air compressor, which supports the fire protection control system.

TAN structures included in this subproject for decommissioning or transfer are listed below.

Structure	Use
TAN-7XX	New Industrial Landfill

Facilities and structures going to NE are listed in the table below.

Building/Structure	Use
TAN-1721	Gas Tank
TAN-1732	Deep Well Chlorination Unit #3
TAN-1733	Water Disinfection Units
TAN-1736	Diesel Fuel Tank
TAN-1741	Heating Oil Tank
TAN-1742	Heating Oil Tank
TAN-1747	Incinerator at Loft (CTF)
TAN-1749	300,00 Gallon Water Tank
TAN-1750	SMC Tank Monument Pad
TAN-1751	SMC Utility Vault
TAN-601	Guardhouse
TAN-610	Fire Water Pumphouse
TAN-612	Deepwell Pumphouse #1
TAN-613	Deepwell Pumphouse #2
TAN-658	Storage near CTF
TAN-664	Auto Service Attendant Building
TAN-680	Bus Fuel Pump Control House
TAN-701	Water Storage Tank
TAN-708	Main Substation
TAN-712	Propane Storage Tank
TAN-713	Gas Pump Island
TAN-733	Water Storage Tank
TAN-739	Meteorological Tower
TAN-748	Water Tank
TAN-749	Solar Collector Support
TAN-750	Liquid Waste Disposal Pond
TAN-773	Concrete Storage Tank
TAN-783	Gasoline Tank
TAN-792	Diesel Tank
TAN-793	Bus Fuel Pump
TAN-796	Transformer near TAN-653
TAN-799	Electrical Substation (SMC)
TAN-781	North Drainage Pond
TAN-782	South Drainage Pond
TAN-786	Drainage Disposal Well
TAN-1716	Surface Runoff Well #2
TAN-1717	Surface Runoff Well #1

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Building/Structure	Use
TAN-1718	Surface Runoff Well #4
TAN-1719	Surface Runoff Well #3
TAN-1720	Surface Runoff Pond

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### 2. MAJOR PRODUCTS AND DELIVERABLES:

- Locate temporary office trailers and provide for electrical, communication, potable water and sewage hookups.
- Provide contract for portable sewage and potable water for TAN office spaces.
- Disconnect TAN-628 from steam heat and install alternative heat.
- Move all hazardous waste and material services, including hazardous waste storage and personnel to TAN-628.
- Establish an industrial landfill and submit operating plans to appropriate state or county officials.
- Develop TAN-specific guidance to transition closed facilities to other Program Secretarial Officers or to INEEL Long-Term Stewardship.
- Provide project-level NEPA documentation.
- Prepare and submit all State Historic Preservation Office documentation required for building and structures of historic significance.
- Provide document control and record retention for project per company requirements and DOE orders.
- Maintain required facility document control, records and information.
- Complete Project Execution Plan.
- Provide appropriate and thorough responses to Idaho DEQ comments on VCO-related documents.
- Define and document TAN end-state to include entombment as a credible option.
- Document and submit any required environmental documentation not related to VCO, such as, underground storage tanks.
- Perform Monthly Project reporting.
- Perform Baseline Management.
- Revise the SAR to DOE Order requirements.
- Propose downgrades to SAR and revisions to TAN facility safety basis and hazard classification.
- Perform surveillance and maintenance on all equipment where operations are required by the TAN facility safety basis and to comply with environmental permits and regulations.
- Perform maintenance required for TAN spent nuclear fuel casks stored on pads TAN-790 and TAN-791.
- Perform surveillance and maintenance of TAN-647 and TAN-648.
- Maintain all required nuclear facility training for nuclear facility manager, operations and craft support.
- Perform all required radiological control technician surveys and surveillance required by the TAN Operations Safety Analysis.
- Perform required Life Safety Code surveillance and maintenance for fire safety, emergency planning, evacuation, heating, ventilation and air conditioning contamination control, and physical assets.

## SUBPROJECT PLAN

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### 3. ESTIMATE DEVELOPMENT BASIS:

Costs were taken from detailed cost estimates (when available), rough order of magnitude model prepared for deactivation, decontamination, and decommissioning (D&D&D)<sup>a</sup> activities, and professional expertise where subject matter experts provided specific information. See project files for details.

### 4. ASSUMPTIONS:

The project key assumptions are divided into planning basis and external milestones. More detailed assumptions are included in the cost estimates and are considered included by reference.

#### **PLANNING BASIS**

- All resources planned are available to perform the work when scheduled.
- All site activities are planned using the 4-10 calendar.
- All VCO tanks systems in TAN Completion are characterized, and documentation submitted to DEQ, during FY 2003.
- Ground water monitoring at TAN is excluded.
- Minimal surveillance and maintenance costs for maintaining TAN-607 and the Contained Test Facility (CTF) facilities will be associated with TAN from 2012 through 2020. Surveillance and maintenance costs will continue until TAN-607 and CTF the facilities have been decommissioned.
- NEPA documentation is prepared at a project level rather than at the activity level.
- NEPA requirements are satisfied under a TAN Completion Project Environmental Assessment.
- No spent nuclear fuel, mixed low-level waste, or low-level waste remains after 2005, other than that generated by remediation, deactivation and decommissioning activities.
- TAN-628 is used to store and transfer RCRA mixed, hazardous and Toxic Substances Control Act contaminated waste for final disposition.
- The Initial Engine Test area is not addressed by this project. The area is assumed to be inactive and requires no further action.
- The on-site lead recycling program accepts all non-contaminated lead.
- Underground piping and systems remain unless they are part of an identified existing or new CERCLA site or Resource Conservation and Recovery Act Closure; however, piping will be isolated near buildings, as appropriate

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a. Deactivation – The process of placing a contaminated excess facility in a stable condition to minimize existing risks and the related life-cycle cost of a surveillance and maintenance program that is protective of workers, the public and the environment. (DOE G 430.1-3)

Decontamination – The process of removing contamination at DOE facilities. "Contamination" refers to both radioactive contamination and to hazardous substance contamination.

Decommissioning – A phase where the facility is taken to its ultimate end state through decontamination and/or dismantlement to demolition or entombment. (DOE G 430.1-4)

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- The following buildings and structures are not part of the TAN completion project, but part of the Central Facilities Area (CFA) and Site Wide Completion Project:

Building or Structure No	Description
TAN-1726	Disposal Well (332) IET
TAN-1728	Disposal Well (333) CTF
TAN-1746	Explosives Bunkers (6)
TAN-706	Radioactive Sample Tower
TAN-707	Weather Tower
TAN-710	Septic Tank
TAN-718	Exhaust Filter and Pad
TAN-740	Liquid Waste Disposal Pond

### EXTERNAL ASSUMPTIONS

- A revision to the TAN SAR to allow the TAN-607 pool water level to be lowered is approved in a timely manner to support the schedule.
- All existing fences remain.
- All existing pavement remains.
- All railroad tracks remain.
- All remediation for Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) cleanup including D&D&D is to industrial levels, consistent with the 100-year land use plan.
- NE funds NE utility and maintenance projects within EM areas at TAN.
- NE has ownership of 24 TAN buildings. Several buildings and structures are proposed for NE (such as the TAN-701 water storage tank, and the TAN-712 deep well pump house).
- NE will accept additional EM facilities required for long term TAN Operations, including the wells, pump-house, water storage tank, and gasoline station in FY 2004 for life-cycle baseline.
- Significant re-work or additional characterization is not required to respond to DEQ comments on VCO characterization.
- Surface runoff wells in the TAN area, TAN-1716, -1717, -1718, and -1719, are not addressed by this project as well as TAN-1720 Surface Runoff Pond, TAN-781 North Drainage Pond, TAN-782 South Drainage Pond, TAN-786 Drainage Disposal Well.
- The following parking/storage lots and roads are not part of the TAN completion project and are managed and maintained by NE:

Number	Type	Name	Location
B50-501	Principal Road	Lincoln Boulevard	North from CFA to TAN Area Idaho Highway 33, southeast from junction of Pole Line Road and Idaho 22 to Lincoln Boulevard (south of TAN Area)
B50-504	Principal Road	Franklin Boulevard	Bus parking outside TAN gate [Technical Support Facility (TSF) Area]
TAN-1002	Parking/Storage Lots		Visitor parking southeast of main gate (TSF Area)
TAN-1008	Parking/Storage Lots		Employee/visitor parking east of main gate (TSF Area)
TAN-1009	Parking/Storage Lots		

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Title: TAN-SP0 Project Support & Facility Authority

Number	Type	Name	Location
TAN-1010	Parking/Storage Lots		Employee/visitor parking [Water Reactor Research Test Facility (WRRTF) Area]
TAN-1011	Parking/Storage Lots		Inactive
TAN-1012	Parking/Storage Lots		North parking lot (IET Area)
TAN-1013	Parking/Storage Lots		East parking lot (IET Area)
TAN-1016	Parking/Storage Lots		Parking at guard gate TAN-676 (LOFT Area)
TAN-1017	Parking/Storage Lots		Parking northeast of TAN-675 (LOFT Area)
TAN-1018	Parking/Storage Lots		Parking east of TAN-671 and TAN-672 (LOFT Area)
TAN-501	Road	Nile Avenue	From Lincoln Boulevard to Snake Avenue south of TSF perimeter fence
TAN-507	Principal Road	Taft Boulevard	North from Highway 28 to TAN/TSF Administration Area and IET Area
TAN-507	Road	Taft Boulevard	North from parking lot #2 TAN/TSF administration to IET area
TAN-508	Principal Road	McKinley Boulevard	From Lincoln Boulevard to Tyler Boulevard
TAN-508	Road	McKinley Boulevard	Southeast from Lincoln Boulevard to Tyler Boulevard
TAN-509	Principal Road	Tyler Boulevard	East from McKinley Boulevard to WRRTF (LPT/EBOR)
TAN-509	Road	Tyler Boulevard	East from McKinley Boulevard to WRRTF (LPT-EBOR)
TAN-517	Road	Lost River Road	Northwest from Taft Boulevard to shielded roadway entrance to TAN-620
TAN-518	Road	Lemhi Street	West from Taft Boulevard to IET dolly trackage
TAN-519	Road	Camas Road	Roadway over TAN-620
TAN-520	Road	Raft River Street	West of IET stack and dolly trackage
TAN-802	Railroad		Dolly trackage from TSF/A&M to IET
TAN-1004	Parking/Storage Lots		Parking at TAN-628 (TSF Area)
TAN-1005	Parking/Storage Lots		Storage at TAN-628 (TSF Area)
TAN-523	Road	Willow Creek Loop	North of TAN-674 Office Complex
TAN-524	Road	Sellars Creek Road	Northwest from Snake Avenue to Taylor Creek Road (north of LOFT)
TAN-525	Road	Taylor Creek Road	West then north from SMC Cafeteria to gravel pit (west of TAN-629)





Activity ID	Activity Description	Early Start	Early Finish	Timeline																				
				FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24
0LPM07	FY08 through FY 2012 Project Management	01OCT07	27SEP12																					
0LMS008	FY08Start Milestone	03OCT07*																						
0LMS009	FY09 Start Milestone	06OCT08*																						
0LMS010	FY10 Start Milestone	05OCT09*																						
0LMS011	FY11 Start Milestone	04OCT10*																						
0LMS012	FY12 Start Milestone	03OCT11*																						
0LE1008	FY2013 - FY 2024 Project Management and	01OCT12	30SEP24																					
0LPM08	FY2013 through FY 2024 Project Management	01OCT12	30SEP24																					
0LMS2155	Complete Consolidation and Reconfig. of TAN		30SEP25																					
<b>TAN Minimum Safe and Minimum Compliance</b>																								
<b>A.1.02.00.00.03.LC</b>																								
0LBFU04	FY04 Characterize & Dispostion LLW	01OCT03	30SEP04																					
0LBPO4	FY04 Maintain PCB Storage Areas	01OCT03	30SEP04																					
0LBT04	FY04 Cask Characterization & Lead	01OCT03	30SEP04																					
0LF1004	FY04 Qualty Surveillace SNF Storage	01OCT03	30SEP04																					
0LF2004	FY04 Daily Facility Surveillance	01OCT03	30SEP04																					
0LF3004	FY04 Backshift Facility Surveillance	01OCT03	30SEP04																					
0LF4004	FY04 Monthly Inspection ofTAN 647/648	01OCT03	30SEP04																					
0LF5004	FY04 Qtrly Inspections of Spill Kit	01OCT03	30SEP04																					
0LF6004	FY04 Wkly RCRA Inspection of TAN 647	01OCT03	30SEP04																					
0LF7004	FY04 Wkly Verifying Stack Monitor Filter	01OCT03	30SEP04																					
0LF8004	FY04 Wkly Mntc of Spent Fuel	01OCT03	30SEP04																					
0LF9004	FY04 Monthly Inspection of TAN 666 Vault	01OCT03	30SEP04																					
0LFA004	FY04 Monthly Inspection of Spill X Con	01OCT03	30SEP04																					
0LF004	FY04 Monthly PM of 648 Air Compressor	01OCT03	30SEP04																					
0LFAB04	FY04 Annual Calibrate RAM 6 for SES RCT	01OCT03	30SEP04																					
0LFAC04	FY04 1st Semi Annual PM Of E-7a Blower	01OCT03	30SEP04																					
0LFAD04	FY04 Miscellaneous Calibrations	01OCT03	30SEP04																					
0LFAE04	FY04 Monthly Equipment Lubrication 968	01OCT03	30SEP04																					
0LFAF04	FY04 Monthly 648 Air Compressor PM	01OCT03	30SEP04																					
0L FAG04	FY04 Annual 666 Pump,Tank & Filter PM	01OCT03	30SEP04																					
0LFAH04	FY04 TAN Qtrly PM for Air Monitor	01OCT03	30SEP04																					
0LFAI04	FY04 Annual Check/Recalibrate DWS & HV	01OCT03	30SEP04																					
0LFAJ04	FY04 Wkly RAD Instruments PM TAN	01OCT03	30SEP04																					
0LFAK04	FY04 Annual Calibrate All Of The HVDS	01OCT03	30SEP04																					
0LFAL04	FY04 TAN Corrective Maintenance	01OCT03	30SEP04																					
0LFAM04	FY04 Monthly PM of SNF Waste Storage Pad	01OCT03	30SEP04																					
0LFAN04	FY04 Daily Radiological Surveys	01OCT03	30SEP04																					
0LFAO04	FY04 Wkly Radiological PC Source Ch	01OCT03	30SEP04																					
0LFAP04	FY04 Wkly Radiological CAM Source Ch	01OCT03	30SEP04																					
0LFAQ04	FY04 C. Wkly Radiological HFM Source Ch	01OCT03	30SEP04																					

Start Date 01APR03  
Finish Date 30SEP25  
Data Date 01OCT03  
Run Date 10APR03 12:57

 Early Bar  
 Progress Bar  
 Critical Activity

TN04  
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**TAN COMPLETION PROJECT**  
Lifecycle Baseline - Rev 1

Activity ID	Activity Description	Early Start	Early Finish																								
				FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25		
0LFAR04	FY04 Wkly RAD Sample Analysis of Sta	01OCT03	30SEP04																								
0LFAS04	FY04 Monthly RPSSA Storage Building	01OCT03	30SEP04																								
0LFAT04	FY04 Wkly Rad Surveys of TAN 607 War	01OCT03	30SEP04																								
0LFAU04	FY04 Wkly Rad Surveys of TAN 607 Hot	01OCT03	30SEP04																								
0LFAV04	FY04 Wkly Rad Surveys of TAN 607 Rms	01OCT03	30SEP04																								
0LFAW04	FY04 Wkly Rad Surveys of TAN 607 Rad	01OCT03	30SEP04																								
0LFAX04	FY04 Wkly Rad Surveys of TAN 607 Hot Sh	01OCT03	30SEP04																								
0LFAY04	FY04 Wkly Rad Surveys of TAN 607 THC	01OCT03	30SEP04																								
0LFAZ04	FY04 Wkly Rad Surveys of TAN 607 SES	01OCT03	30SEP04																								
0LFB004	FY04 Monthly PM Emergency Equipment	01OCT03	30SEP04																								
0LFB04	FY04 Wkly Rad Surveys of TAN 607 Storage	01OCT03	30SEP04																								
0LFB04	FY04 Wkly Rad Surveys of TAN 607 Storage	01OCT03	30SEP04																								
0LFB04	FY04 Wkly Rad Surveys of TAN 607A RB	01OCT03	30SEP04																								
0LFB04	FY04 Wkly Rad Surveys of TAN 608	01OCT03	30SEP04																								
0LFB04	FY04 Wkly High Rad Checks@ TAN	01OCT03	30SEP04																								
0LFB04	FY04 Wkly Rad Surveys T647/648 RPSSA	01OCT03	30SEP04																								
0LFB04	FY04 Perform Decontamination & Stablization	01OCT03	30SEP04																								
0LFB04	FY04 Perform Chemical Coord Activities	01OCT03	30SEP04																								
0LFB04	FY04 TAN Continuing Training 5 Classes	01OCT03	30SEP04																								
0LFB04	FY04 INTEC WC Order Process, Tracking	01OCT03	30SEP04																								
0LFB04	FY04 INTEC WC Elec & Mech Planners	01OCT03	30SEP04																								
0LFB04	FY04 Maintain TAN TAAs	01OCT03	30SEP04																								
0LFB04	FY04 Maintain Centralized SAA	01OCT03	30SEP04																								
0LFB04	FY04 Qtrly Surveys for TAN 648n - 20	01OCT03	30SEP04																								
0LFB04	FY04 Characterize & Disposition VCO	01OCT03	30SEP04																								
0LFB04	FY04 Characterize & Dispostion Waste From	01OCT03	30SEP04																								
0LFB04	FY04 Perform Waste Characterization &	01OCT03	30SEP04																								
0LFB04	FY04 Monthly Make Demineralized Water	01OCT03	30SEP04																								
0LFB04	FY04 Monthly Analyses of Storage Pool	01OCT03	30SEP04																								
0LFB04	FY04 Monthly Fill Pool	01OCT03	30SEP04																								
0LFB04	FY04 Materials Req'd for TAN Operations	01OCT03	30SEP04																								
0LFB04	FY04 Materials Req'd for Maintenance	01OCT03	30SEP04																								
0LFB04	FY04 Rewrite Monthly PM Of Warm Shop Crane	01OCT03	30SEP04																								
0LFB04	FY04 Monthly PM Of Warm Shop Crane	01OCT03	30SEP04																								
0LFB04	FY04 Annual Lockout/Tagout Support For PMs	01OCT03	30SEP04																								
0LFB04	FY04 Rewrite Annual PM of Yale 16 Tone Forklift	01OCT03	30SEP04																								
0LFB04	FY04 Rewrite Annual PM Of Warm Shop Crane	01OCT03	30SEP04																								
0LFB04	FY04 Annual PM Of Warm Shop Crane	01OCT03	30SEP04																								
0LFB04	FY04 Monthly PM of Hot Shop 110-10 Crane	01OCT03	30SEP04																								
0LFB04	FY04 Monthly PM of Hot Shop OMAN Crane	01OCT03	30SEP04																								

Start Date 01APR03  
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 Early Bar  
 Progress Bar  
Critical Activity

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TAN COMPLETION PROJECT  
Lifecycle Baseline - Rev 1

Activity ID	Activity Description	Early Start	Early Finish	Timeline																					
				FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25
0LFP004	FY06 Monthly PM of Hot Shop Door	01OCT03	30SEP04																						
0LFR004	FY04 1st Semi Annual PM of E-7 Blower	01OCT03	30SEP04																						
0LFT004	FY04 1st Semi Annual PM of Exhaust Fan	01OCT03	30SEP04																						
0LFU004	FY04 1st Qtrly Invenry MBA Reco as Per	01OCT03	30SEP04																						
0LFV004	FY04 Annual PM of Supply Fan S-6 TPR 1042	01OCT03	30SEP04																						
0LFW004	FY04 2nd Qtr Invenry of MBA Reco as Per	01OCT03	30SEP04																						
0LFX004	FY04 Qtrly PM of E-7 Blower	01OCT03	30SEP04																						
0LFZ004	FY04 Qtrly PM of E-7a Blower	01OCT03	30SEP04																						
0LPM304	FY04 Project Management and Support	01OCT03	30SEP04																						
0LPQ004	FY04 Annual PM Of Hot Shop 110-10 Crane	01OCT03	30SEP04																						
0LPS004	FY04 Qtrly PM of Exhaust Fan E-8	01OCT03	30SEP04																						
0L31000	BIN 2 FY05- FY09	04OCT04*	30SEP09																						
0LF1005	FY05 Qualty Surveillace SNF Storage	04OCT04	29SEP05																						
0LF2005	FY05 Daily Facility Surveillance	04OCT04	29SEP05																						
0LF3005	FY05 Backshift Facility Surveillance	04OCT04	29SEP05																						
0LF4005	FY05 Monthly Inspection ofTAN 647/648	04OCT04	29SEP05																						
0LF5005	FY05 Qtrly Inspections of Spill Kit	04OCT04	29SEP05																						
0LF6005	FY05 Wkly RCRA Inspection of TAN 647	04OCT04	29SEP05																						
0LF8005	FY05 Wkly Mntc of Spent Fuel	04OCT04	29SEP05																						
0LF9005	FY05 Monthly Inspection of TAN 666 Vault	04OCT04	29SEP05																						
0LFA005	FY04 Monthly Inspection of Spill X Con	04OCT04	29SEP05																						
0LFAA05	FY05 Annual Calibrate RAM 6 for SES RCT	04OCT04	29SEP05																						
0LFAB05	FY05 1st Semi Annual PM Of E-7a Blower	04OCT04	29SEP05																						
0LFAC05	FY05 Miscellaneous Calibrations	04OCT04	29SEP05																						
0LFAD05	FY05 Monthly Equipment Lubrication 968	04OCT04	29SEP05																						
0LFAE05	FY05 Monthly 648 Air Compressor PM	04OCT04	29SEP05																						
0LFAF05	FY05 Annual 666 Pump, Tank & Filter PM	04OCT04	29SEP05																						
0LFAG05	FY05 TAN Qtrly PM for Air Monitor	04OCT04	29SEP05																						
0LFAH05	FY05 Annual Check/Recalibrate DWS & HV	04OCT04	29SEP05																						
0LFAI05	FY05 Wkly RAD Instruments PM TAN	04OCT04	29SEP05																						
0LFAJ05	FY05 Annual Calibrate All Of The HVDS	04OCT04	29SEP05																						
0LFAK05	FY05 TAN Corrective Maintenance	04OCT04	29SEP05																						
0LFAL05	FY05 Monthly PM of SNF Waste Storage Pad	04OCT04	29SEP05																						
0LFAM05	FY05 Daily Radiological Surveys	04OCT04	29SEP05																						
0LFAN05	FY05 Wkly Radiological PC Source Ch	04OCT04	29SEP05																						
0LFAO05	FY05 Wkly Radiological CAM Source Ch	04OCT04	29SEP05																						
0LFAP05	FY05 C. Wkly Radiological HFM Source Ch	04OCT04	29SEP05																						
0LFAQ05	FY05 Wkly RAD Sample Analysis of Sta	04OCT04	29SEP05																						
0LFAR05	FY05 Monthly RPSSA Storage Building	04OCT04	29SEP05																						
0LFAS05	FY05 Wkly Rad Surveys of TAN 607 War	04OCT04	29SEP05																						

Start Date 01APR03  
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Data Date 01OCT03  
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 Early Bar  
 Progress Bar  
Critical Activity

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TAN COMPLETION PROJECT  
Lifecycle Baseline - Rev 1

Activity ID	Activity Description	Early Start	Early Finish																					
				FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24
OLFAT05	FY05 Wkly Rad Surveys of TAN 607 Hot	04OCT04	29SEP05																					
OLFAU05	FY05 Wkly Rad Surveys of TAN 607 Rms	04OCT04	29SEP05																					
OLFAV05	FY05 Wkly Rad Surveys of TAN 607 Rad	04OCT04	29SEP05																					
OLFAW05	FY05 Wkly Rad Surveys of TAN 607 Hot Sh	04OCT04	29SEP05																					
OLFAX05	FY05 Wkly Rad Surveys of TAN 607 THC	04OCT04	29SEP05																					
OLFAY05	FY05 Wkly Rad Surveys of TAN 607 SES	04OCT04	29SEP05																					
OLFAZ05	FY05 Wkly Rad Surveys of TAN 607 Storag	04OCT04	29SEP05																					
OLFB005	FY05 Monthly PM Emergency Equipment	04OCT04	29SEP05																					
OLFBA05	FY05 Wkly Rad Surveys of TAN 607 Storage	04OCT04	29SEP05																					
OLFBB05	FY05 Wkly Rad Surveys of TAN 607A RB	04OCT04	29SEP05																					
OLFBC05	FY05 Wkly Rad Surveys of TAN 608	04OCT04	29SEP05																					
OLFBD05	FY05 Wkly High Rad Checks @ Tan	04OCT04	29SEP05																					
OLFBE05	FY05 Wkly Rad Surveys T647/648 RPSSA	04OCT04	29SEP05																					
OLFBF05	FY05 Perform Decontamination & Stablization	04OCT04	29SEP05																					
OLFBG05	FY05 Perform Chemical Coord Activities	04OCT04	29SEP05																					
OLFBK05	FY05 TAN Continuing Training 5 Classes	04OCT04	29SEP05																					
OLFBL05	FY05 INTEC WC Order Process, Tracking	04OCT04	29SEP05																					
OLFBM05	FY05 INTEC WC Elec & Mech Planners	04OCT04	29SEP05																					
OLFBN05	FY05 Maintain TAN TAAs	04OCT04	29SEP05																					
OLFBO05	FY05 Maintain PCB Storage Areas	04OCT04	29SEP05																					
OLFBP05	FY05 Maintain Centralized SAA	04OCT04	29SEP05																					
OLFBQ05	FY05 Qtrly Surveys for TAN 648n - 20	04OCT04	29SEP05																					
OLFBR05	FY05 Characterize & Disposition VCO	04OCT04	29SEP05																					
OLFBS05	FY05 Cask Characterization & Lead	04OCT04	29SEP05																					
OLFBT05	FY05 Characterize & Dispostion LLW	04OCT04	29SEP05																					
OLFBU05	FY05 Characterize & Dispostion Waste From	04OCT04	29SEP05																					
OLFBV05	FY05 Perform Waste Characterization &	04OCT04	29SEP05																					
OLFC005	FY05 Monthly Make Demineralized Water	04OCT04	29SEP05																					
OLFD005	FY05 Monthly Analyses of Storage Pool	04OCT04	29SEP05																					
OLFE005	FY05 Monthly Fill Pool	04OCT04	29SEP05																					
OLFF005	FY05 Materials Req'd for TAN Operations	04OCT04	29SEP05																					
OLFG005	FY05 Materials Req'd for Maintenance	04OCT04	29SEP05																					
OLFH005	FY05 Rewrite Monthly PM Of Warm Shop Crane	04OCT04	29SEP05																					
OLFI005	FY05 Monthly PM Of Warm Shop Crane	04OCT04	29SEP05																					
OLFJ005	FY05 Annual Lockout/Tagout Support For PMs	04OCT04	29SEP05																					
OLFK005	FY05 Rewrite Annual PM of Yale 16 Tone Forklift	04OCT04	29SEP05																					
OLFL005	FY05 Rewrite Annual PM Of Warm Shop Crane	04OCT04	29SEP05																					
OLFM005	FY05 Annual PM Of Warm Shop Crane	04OCT04	29SEP05																					
OLFN005	FY05 Monthly PM of Hot Shop 110-10 Crane	04OCT04	29SEP05																					
OLFO005	FY05 Monthly PM of Hot Shop OMAN Crane	04OCT04	29SEP05																					

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 Early Bar  
 Progress Bar  
Critical Activity

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TAN COMPLETION PROJECT  
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Activity ID	Activity Description	Early Start	Early Finish																								
				FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25		
0LFP005	FY06 Monthly PM of Hot Shop Door	04OCT04	29SEP05																								
0LFQ005	FY04 Annual PM Of Hot Shop 110-10 Crane	04OCT04	29SEP05																								
0LFR005	FY05 1st Semi Annual PM of E-7 Blower	04OCT04	29SEP05																								
0LFS005	FY05 Qtrly PM of Exhaust Fan E-8	04OCT04	29SEP05																								
0LFT005	FY05 1st Semi Annual PM of Exhaust Fan	04OCT04	29SEP05																								
0LFU005	FY05 1st Qtrly Invenry MBA Reco as Per	04OCT04	29SEP05																								
0LFV005	FY05 Annual PM of Supply Fan S-6 TPR 1042	04OCT04	29SEP05																								
0LFW005	FY05 2nd Qtr Invenry of MBA Reco as Per	04OCT04	29SEP05																								
0LFX005	FY05 Qtrly PM of E-7 Blower	04OCT04	29SEP05																								
0LFY005	FY05 Qtrly PM of E-7a Blower	04OCT04	29SEP05																								
0LFZ005	FY05 Monthly PM of 648 Air Compressor	04OCT04	29SEP05																								
0LKF7005	FY05 Wkly Verifying Stack Monitor Filter	04OCT04	29SEP05																								
0LPM305	FY05 Project Management and Support	04OCT04	29SEP05																								
0LF2006	FY06+ Daily Facility Surveillance	03OCT05	27SEP12																								
0LF3006	FY06+ Backshift Facility Surveillance	03OCT05	27SEP12																								
0LF5006	FY06+ Qtrly Inspections of Spill Kit	03OCT05	27SEP12																								
0LF7006	FY06+ Wkly Verifying Stack Monitor Filter	03OCT05	27SEP12																								
0LF9006	FY06+ Monthly Inspection of TAN 666 Vault	03OCT05	28SEP06																								
0LFA006	FY04 Monthly Inspection of Spill X Con	03OCT05	27SEP12																								
0LFAA06	FY06+ Monthly PM of 648 Air Compressor	03OCT05	27SEP07																								
0LFAB06	FY06 Annual Calibrate RAM 6 for SES RCT	03OCT05	27SEP12																								
0LFAC06	FY06+ 1st Semi Annual PM Of E-7a Blower	03OCT05	27SEP12																								
0LFAD06	FY06+ Miscellaneous Calibrations	03OCT05	27SEP12																								
0LFAE06	FY06+ Monthly Equipment Lubrication 968	03OCT05	27SEP12																								
0LFAF06	FY06+ Monthly 648 Air Compressor PM	03OCT05	27SEP07																								
0LFAG06	FY06+ Annual 666 Pump, Tank & Filter PM	03OCT05	27SEP12																								
0LFAH06	FY06+ TAN Qtrly PM for Air Monitor	03OCT05	27SEP12																								
0LFAI06	FY06+ Annual Check/Recalibrate DWS & HV	03OCT05	27SEP12																								
0LFAJ06	FY06 Wkly RAD Instruments PM TAN	03OCT05	27SEP12																								
0LFAK06	FY06+ Annual Calibrate All Of The HVDS	03OCT05	27SEP12																								
0LFAN06	FY06+ Wkly Radiological PC Source Ch	03OCT05	27SEP12																								
0LFAO06	FY06+ Wkly Radiological CAM Source Ch	03OCT05	27SEP12																								
0LFAP06	FY06+ C. Wkly Radiological HFM Source Ch	03OCT05	27SEP12																								
0LFAQ06	FY06+ Wkly RAD Sample Analysis of Sta	03OCT05	27SEP12																								
0LFAR06	FY06+ Monthly RPSSA Storage Building	03OCT05	27SEP12																								
0LFAS06	FY06+ Wkly Rad Surveys of TAN 607 War	03OCT05	27SEP12																								
0LFAT06	FY06+ Wkly Rad Surveys of TAN 607 Hot	03OCT05	27SEP12																								
0LFAU06	FY06+ Wkly Rad Surveys of TAN 607 Rms	03OCT05	27SEP12																								
0LFAV06	FY06+ Wkly Rad Surveys of TAN 607 Rad	03OCT05	27SEP12																								
0LFAW06	FY06+ Wkly Rad Surveys of TAN 607 Hot Sh	03OCT05	27SEP12																								

Start Date 01APR03  
Finish Date 30SEP25  
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 Early Bar  
 Progress Bar  
Critical Activity

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TAN COMPLETION PROJECT  
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Activity ID	Activity Description	Early Start	Early Finish																									
				FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25			
0LFAX06	FY06+ Wkly Rad Surveys of TAN 607 THC	03OCT05	27SEP07																									
0LFAY06	FY06+ Wkly Rad Surveys of TAN 607 SES	03OCT05	27SEP12																									
0LFAZ06	FY06+ Wkly Rad Surveys of TAN 607 Storg	03OCT05	27SEP12																									
0LFB006	FY06+ Monthly PM Emergency Equipment	03OCT05	27SEP12																									
0LFBA06	FY06+ Wkly Rad Surveys of TAN 607 Storage	03OCT05	27SEP12																									
0LFBB06	FY06+ Wkly Rad Surveys of TAN 607A RB	03OCT05	27SEP12																									
0LFBC06	FY06+ Wkly Rad Surveys of TAN 608	03OCT05	27SEP12																									
0LFBF06	FY06+ Perform Decontamination & Stablization	03OCT05	27SEP12																									
0LFBG06	FY06 Perform Chemical Coord Activities	03OCT05	27SEP12																									
0LFBK06	FY06+ TAN Continuing Training 5 Classes	03OCT05	27SEP12																									
0LFBL06	FY06+ INTEC WC Order Process, Tracking	03OCT05	27SEP12																									
0LFBM06	FY06+ INTEC WC Elec & Mech Planners	03OCT05	27SEP12																									
0LFBN06	FY06 Maintain TAN TAAs	03OCT05	27SEP12																									
0LFBO06	FY06 Maintain PCB Storage Areas	03OCT05	27SEP12																									
0LFBP06	FY06 Maintain Centralized SAA	03OCT05	27SEP12																									
0LFBQ06	FY06 Qtrly Surveys for TAN 648 - 20	03OCT05	27SEP07																									
0LFBR06	FY06 Characterize & Disposition VCO	03OCT05	27SEP12																									
0LFBT06	FY06 Characterize & Dispostion LLW	03OCT05	27SEP12																									
0LFC006	FY06+ Monthly Make Demineralized Water	03OCT05	27SEP12																									
0LFF006	FY06+ Materials Req'd for TAN Operations	03OCT05	27SEP12																									
0LFG006	FY06+ Materials Req'd for Maintenance	03OCT05	27SEP12																									
0LFH006	FY06+ Rewrite Monthly PM Of Warm Shop	03OCT05	27SEP12																									
0LFI006	FY06+ Monthly PM Of Warm Shop Crane	03OCT05	27SEP12																									
0LFJ006	FY06 Annual Lockout/Tagout Support For PMs	03OCT05	27SEP12																									
0LFK006	FY06 Rewrite Annual PM of Yale 16 Tone Forklift	03OCT05	27SEP12																									
0LFL006	FY06+ Rewrite Annual PM Of Warm Shop Crane	03OCT05	27SEP12																									
0LFM006	FY06+ Annual PM Of Warm Shop Crane	03OCT05	27SEP12																									
0LFN006	FY06+ Monthly PM of Hot Shop 110-10 Crane	03OCT05	27SEP12																									
0LFO006	FY06 Monthly PM of Hot Shop OMAN Crane	03OCT05	27SEP12																									
0LFP006	FY06 Monthly PM of Hot Shop Door	03OCT05	27SEP12																									
0LFQ006	FY04 Annual PM Of Hot Shop 110-10 Crane	03OCT05	27SEP12																									
0LFR006	FY06+ 1st Semi Annual PM of E-7 Blower	03OCT05	27SEP12																									
0LFS006	FY06+ Qtrly PM of Exhaust Fan E-8	03OCT05	27SEP12																									
0LFT006	FY06+ 1st Semi Annual PM of Exhaust Fan	03OCT05	27SEP12																									
0LFU006	FY06 1st Qtr Inventory MBA Reco as Per	03OCT05	27SEP12																									
0LFW006	FY06+ Annual PM of Supply Fan S-6 TPR 1042	03OCT05	27SEP12																									
0LFX006	FY06 2nd Qtr Invenry of MBA Reco as Per	03OCT05	27SEP12																									
0LFY006	FY06+ Qtrly PM of E-7 Blower	03OCT05	27SEP12																									
0LFZ006	FY06+ Qtrly PM of E-7a Blower	03OCT05	27SEP12																									
0LPM306	FY06 Project Management and Support	03OCT05	28SEP06																									

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Finish Date 30SEP25  
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 Early Bar  
 Progress Bar  
Critical Activity

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TAN COMPLETION PROJECT  
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Activity ID	Activity Description	Early Start	Early Finish	Fiscal Year																					
				FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25
0LF0012	FY12-21 TAN Minimum Safe & Minimum	01OCT12	30SEP25																						



**Subproject 0 - Project Support and Facility Authority**  
Subproject Breakout by Control Account

WBS[5]	WBS[6]		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
<b>A.1.02.00.00 TAN-SP0 Project Support &amp; Facility Authority</b>																			
	<b>BURDENED BASE</b>																		
	A.1.02.00.00.01 TAN Area Consolidation	BCWS	4,461	6,358	2,346	2,346	2,365	2,356	2,356	2,365	2,346	2,356	2,356	2,356	2,365	2,346	2,346	2,356	2,365
	A.1.02.00.00.02 TAN Management and Support	BCWS	3,965	3,754	3,761	3,746	3,736	3,721	3,721	3,736	3,691	1,434	1,434	1,434	1,440	1,428	1,428	1,434	1,440
	A.1.02.00.00.03 TAN Minimum Safe and Minimum Compliance	BCWS	3,126	5,327	3,984	3,905	3,785	3,770	1,697	1,704	1,683	120	120	120	121	120	120	120	121
	<b>Results Totals:</b>	<b>BCWS</b>	<b>11,552</b>	<b>15,439</b>	<b>10,092</b>	<b>9,998</b>	<b>9,886</b>	<b>9,847</b>	<b>7,774</b>	<b>7,805</b>	<b>7,721</b>	<b>3,910</b>	<b>3,910</b>	<b>3,910</b>	<b>3,926</b>	<b>3,895</b>	<b>3,895</b>	<b>3,910</b>	<b>3,926</b>
	<b>ESCALATE</b>																		
	A.1.02.00.00.01 TAN Area Consolidation	BCWS	104	278	160	212	268	322	378	438	492	554	615	678	744	803	869	941	1,014
	A.1.02.00.00.02 TAN Management and Support	BCWS	125	200	283	365	451	537	626	720	803	349	386	425	466	502	542	586	631
	A.1.02.00.00.03 TAN Minimum Safe and Minimum Compliance	BCWS	99	262	277	358	433	520	285	328	366	29	32	36	39	42	46	49	53
	<b>Results Totals:</b>	<b>BCWS</b>	<b>328</b>	<b>740</b>	<b>720</b>	<b>936</b>	<b>1,152</b>	<b>1,378</b>	<b>1,290</b>	<b>1,486</b>	<b>1,662</b>	<b>933</b>	<b>1,034</b>	<b>1,138</b>	<b>1,249</b>	<b>1,347</b>	<b>1,457</b>	<b>1,576</b>	<b>1,698</b>
	<b>SUMMARY (Base + Escalation)</b>																		
	A.1.02.00.00.01 TAN Area Consolidation	BCWS	4,565	6,637	2,506	2,559	2,633	2,678	2,734	2,803	2,839	2,910	2,971	3,034	3,110	3,150	3,216	3,297	3,379
	A.1.02.00.00.02 TAN Management and Support	BCWS	4,091	3,954	4,044	4,112	4,186	4,257	4,347	4,456	4,494	1,783	1,821	1,859	1,905	1,930	1,970	2,020	2,070
	A.1.02.00.00.03 TAN Minimum Safe and Minimum Compliance	BCWS	3,224	5,588	4,261	4,263	4,219	4,290	1,982	2,032	2,050	150	153	156	160	162	165	169	174
	<b>Results Totals:</b>	<b>BCWS</b>	<b>11,880</b>	<b>16,179</b>	<b>10,812</b>	<b>10,934</b>	<b>11,038</b>	<b>11,225</b>	<b>9,063</b>	<b>9,290</b>	<b>9,383</b>	<b>4,843</b>	<b>4,944</b>	<b>5,048</b>	<b>5,175</b>	<b>5,241</b>	<b>5,352</b>	<b>5,486</b>	<b>5,623</b>

**Subproject 0 - Project Support and Facility Authority**  
Subproject Breakout by Control Account

WBS[5]	WBS[6]		FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Cumulative
A.1.02.00.00	TAN-SP0 Project Support & Facility Authority							
	<b>BURDENED BASE</b>							
	A.1.02.00.00.01 TAN Area Consolidation	BCWS	2,365	2,365	2,346	2,356	16	55,597
	A.1.02.00.00.02 TAN Management and Support	BCWS	1,440	1,440	1,428	1,434	0	51,045
	A.1.02.00.00.03 TAN Minimum Safe and Minimum Compliance	BCWS	121	121	120	120	120	30,544
	<b>Results Totals:</b>	<b>BCWS</b>	<b>3,926</b>	<b>3,926</b>	<b>3,895</b>	<b>3,910</b>	<b>136</b>	<b>137,187</b>
	<b>ESCALATE</b>							
	A.1.02.00.00.01 TAN Area Consolidation	BCWS	1,085	1,157	1,222	1,302	9	13,647
	A.1.02.00.00.02 TAN Management and Support	BCWS	674	719	758	807	0	10,954
	A.1.02.00.00.03 TAN Minimum Safe and Minimum Compliance	BCWS	57	60	64	68	72	3,575
	<b>Results Totals:</b>	<b>BCWS</b>	<b>1,816</b>	<b>1,936</b>	<b>2,043</b>	<b>2,176</b>	<b>81</b>	<b>28,175</b>
	<b>SUMMARY (Base + Escalation)</b>							
	A.1.02.00.00.01 TAN Area Consolidation	BCWS	3,450	3,523	3,568	3,658	25	69,244
	A.1.02.00.00.02 TAN Management and Support	BCWS	2,114	2,158	2,186	2,241	0	61,999
	A.1.02.00.00.03 TAN Minimum Safe and Minimum Compliance	BCWS	177	181	183	188	192	34,119
	<b>Results Totals:</b>	<b>BCWS</b>	<b>5,742</b>	<b>5,862</b>	<b>5,938</b>	<b>6,086</b>	<b>217</b>	<b>165,362</b>

# SUBPROJECT PLAN

WBS: A.1.02.00.01  
Title: TAN-SP1 TAN-607 Facilities

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PROJ Mgr:	<u>Robert Miklos</u>	Planning & Controls:	<u>Mike Duffy</u>
DOE-ID:	<u>William Leake</u>	ES&H Field Manager:	<u>Charles Chebul</u>
TAN Manager:	<u>Robert Miklos</u>	Other:	<u>Robert Miklos</u>
Project Manager for Project Support and Facility Authorization			

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APPROVED BY:

  
Subproject Plan Manager

4/3/03  
Date

  
ES&H Representative

4/3/03  
Date

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## 1. WORK DESCRIPTION:

The Test Area North (TAN)-607 Facilities Subproject (WBS A.1.02.00.01) removes the water from the basins, plans and performs Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Resource Conservation and Recovery Act (RCRA) (including Voluntary Consent Order [VCO]), and other remediation; and performs out-of-service shutdown. Other buildings and structures in the vicinity of TAN-607 are included within the project scope. The subproject is complete when the the water in the basins is removed, any other remediation is complete, and the buildings and structures are deactivated, decontaminated and decommissioned (D&D&D),<sup>a</sup> and the project closeout documentation is complete.

This subproject is divided into six control accounts: TAN-607 - North Area Structures and Buildings (WBS A.1.02.00.01.01), TAN-607 - Central Area Structures and Buildings (WBS A.1.02.00.01.02); TAN-607 - South Area Structures and Buildings (WBS A.1.02.00.01.03), TAN-616 - Liquid Waste Treatment System (WBS A.1.02.00.01.04), Operable Unit (OU) 1-10 V-Tanks Remediation (WBS A.1.02.00.01.05), and OU 1-11 V-Tank Area New CERCLA Sites (WBS A.1.02.00.01.06).

TAN-607 - North Area Structures and Buildings (WBS A.1.02.00.01.01) transitions the TAN-607 water treatment and miscellaneous equipment and facilities from operation to deactivation to decommissioned.

TAN-607 - Central Area Structures and Buildings (WBS A.1.02.00.01.02) characterizes the TAN-607 Central Area Structures and Buildings (listed in the table below); transitions them from an operational state; cleans out the TAN-607 hot and warm shops, the spent fuel storage pool area, the ventilation stack, the heavy equipment bay, the hot cell, the tunnel under the hot cell, and various storage facilities and structures; deactivates the TAN-607 Central area; and decommissions TAN-607, TAN-668, TAN-662, TAN-655, TAN-1734, and TAN-734.

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<sup>a</sup>. Deactivation – The process of placing a contaminated excess facility in a stable condition to minimize existing risks and the related life-cycle cost of a surveillance and maintenance program that is protective of workers, the public and the environment. (DOE G 430.1-3)

Decontamination – The process of removing contamination at DOE facilities. "Contamination" refers to both radioactive contamination and to hazardous substance contamination.

Decommission - The process where the facility is taken to its ultimate end state through decontamination and/or dismantlement to demolition or entombment. (DOE G 430.1-4)

## SUBPROJECT PLAN

WBS: A.1.02.00.01

Title: TAN-SP1 TAN-607 Facilities

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There are two VCO systems within the TAN-607 Central Area Structures and Buildings characterized in Fiscal Year (FY) 2003: SITE-TANK-005 System TAN-031, Demineralized Water System; and System TAN-032, TAN/Technical Support Facility (TSF) Manufacturing and Hot Shop Radioactive Waste Collection System. The subsequent RCRA closure and interim actions required for SITE-TANK-005 System TAN-031 are funded in this subproject.

The pool deactivation part of the TAN-607 Central Area includes:

- Removing pool racks, ion blocks, equipment, sludge and water from the TAN-607 pool while the heating, ventilation and air conditioning (HVAC) systems are in working order and before hot shop deactivation
- Procuring containers for pool racks
- Installing a vestibule cover, if necessary, soon after the rack, ion blocks, water and sludge are removed
- Removing and disposing of water in storage pool
- Securing all contamination on pool floor and sides
- Realigning ventilation to keep hot shop at a negative pressure when vestibule and pool are drained.

The characterization, decontamination, facility transition, and deactivation of the TAN-607 hot shop, hot cells and warm shop area include:

- Integrating utilities and safety systems to ensure that they are operational and to support scopes of work that are similar in the TAN-607 North and TAN-607 South control accounts
- Characterizing the entire hot shop, warm shop, hot cell, and tunnel; then performing decontamination to achieve cell entry and equipment removal
- Removing all loose items from hot cell, tunnel, and hot shop for disposal at the Radioactive Waste Management Complex (RWMC) or other disposal facility, or reuse, if appropriate
- Disconnecting manipulators from wall mounts
- Shutting down all utility systems, fire water, steam, condensate to hot shop, cell and warm shop area
- Shutting down TAN HVAC systems.

TAN-607 - South Area Structures and Buildings (WBS A.1.02.00.01.03) cleans out the TAN-607 high bay, machine shops, office areas, the Process Experimental Pilot Plant (PREPP), and various storage facilities and structures. Subsequent activities include characterization, transition from operational to deactivation followed by decommissioning.

The TAN-616 - Liquid Waste Treatment System (WBS A.1.02.00.01.04) project is a joint project fulfilling two objectives with two funds sources. The VCO covers the RCRA closure of the hazardous waste system associated with TAN-616, as specified by VCO Action Plan item NEW-TAN-008. The D&D&D of the TAN-616 building is integrated with, and follows completion of, the RCRA closure. The project management is integrated for the VCO NEW-TAN-008 and the TAN-616 D&D&D work scope. The VCO work scope includes RCRA clean closure of the process tanks, equipment, and piping listed in the VCO Action Plan NEW-TAN-008, that are determined to be hazardous. As a follow-on action under the VCO, piping that does not require RCRA closure is investigated for past releases to the environment. This piping includes the TAN-616 evaporator concentrate and condensate discharge lines and numerous influent lines from TAN-607. Also, the VCO portion of the work scope includes interim actions.

The D&D&D activities at TAN-616 include decontamination and removal of the structure, the caustic storage tank TAN-1709, and the valve pit TAN-1704. The D&D&D of the TAN-616 facility includes complete removal and disposal of all non-VCO equipment, tanks, piping, and building internals. Any RCRA-closed tank systems not removed as part of the RCRA closure are removed during D&D&D. The physical building is removed, including all below-grade concrete. The site utility piping connecting TAN-616 and TAN-633 is removed to an appropriate point and isolated.

## SUBPROJECT PLAN

WBS: A.1.02.00.01

Title: TAN-SP1 TAN-607 Facilities

The OU 1-10 V-Tanks Remediation (WBS A.1.02.00.01.05) provides for cleanup of the V-Tanks V1, V-2, and V-3 with ancillary piping, equipment and adjacent contaminated soils (also identified as TAN-1703 or TSF-09); V-Tank V-9 with the sand filter, ancillary piping, equipment, and adjacent contaminated soil (also identified as TAN-1710 or TSF-18).

OU 1-11 V-Tank Area New CERCLA Sites (WBS A.1.02.00.01.06) addresses OU 1-11 new CERCLA sites immediately adjacent the V-Tanks site that have the potential to be remediated using the V-Tanks site soil remediation remedy of removal and disposal at Idaho CERCLA Disposal Facility (ICDF). To be remediated using the V-Tanks soil remedy, the new sites must have soil contamination that is the same or similar to the V-tanks site soil and be acceptable for disposal at the ICDF without treatment to meet the ICDF waste acceptance criteria. These sites include TSF-46, TAN-616 Soils; TSF-47, TAN-615 Sewer Line Soils; and TSF-48, Soils Beneath TAN-615 East and West Sumps.

The facilities and structures included in the TAN-SP1 subproject are listed in the table below.

Control Account	Building/Structure	Use
TAN-607 - North Area Structures and Buildings (WBS A.1.02.00.01.01)	TAN-633	Hot Cell Annex
	TAN-666	Radioactive Liquid Waste Transfer and Storage
	TAN-608	Water Filtration Building
	TAN-649	Water Filtration Building
	TAN-770	Liquid Nitrogen Tank
TAN-607 - Central Area Structures and Buildings (WBS A.1.02.00.01.02)	TAN-607 Central	Hot Shop/Manufacturing and Assembly
	TAN-607 Central	Warm Shop
	TAN-607 Central	Hot Cell
	TAN-607 Central	Spent Fuel Pool Area
	TAN-668	Heavy Equipment Cleaning Facility
	TAN-662	Gas Cylinder Storage
	TAN-655	Liquid Waste Lift Station
	TAN 1734	Emergency Generator Fuel Tank
TAN-734	Exhaust Stack	
TAN-607 - South Area Structures and Buildings (WBS A.1.02.00.01.03)	TAN-607 South	PREPP, High Bay Area
	TAN-694	Tank Storage Building
	TAN-1731	SMC Substation
	TAN-1737	Waste Oil Tank in TAN-607
	TAN-795	TAN Substation
	TAN-686	Offices/Change Rooms
TAN-616 - Liquid Waste Treatment System (WBS A.1.02.00.01.04)	TAN-616	Liquid Waste Treatment Building
	TAN-1709	Tank
	TAN-1704	Valve Pit
OU 1-10 V-Tanks Remediation (WBS A.1.02.00.01.05)	TSF-09	V-Tanks V-1, V-2, and V-3 with ancillary piping/equipment and adjacent contaminated soil (also identified as TAN-1703)
	TSF-18	V-Tank V-9 with ancillary piping/equipment and adjacent contaminated soil (also identified as TAN-1710)

## SUBPROJECT PLAN

WBS: A.1.02.00.01  
Title: TAN-SP1 TAN-607 Facilities

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Control Account	Building/Structure	Use
OU 1-11 V-Tank Area New	TSF-46	TAN-616 Soils
CERCLA Sites	TSF-47	TAN-615 Sewer Line Soils
(WBS A.1.02.00.01.06)	TSF-48	Soils Beneath TAN-615 East and West Sumps

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### 2. MAJOR PRODUCTS AND DELIVERABLES:

- Characterize the TAN-607 hot shop, hot cells, tunnel, and warm shop area
- Complete deactivation of the TAN-607 operational buildings and facilities
- Complete decommissioning of the TAN-607 operational buildings and facilities
- Complete RCRA Closure of VCO TAN-NEW-008, TAN-616 Liquid Waste Treatment System
- Complete VCO TAN-031 Demineralized Water System RCRA Closure
- Cut, cap, and isolate all utilities at TAN-607
- Deactivate the TAN-607 North Waste Treatment and filtration systems, and prepare the facilities for decommission and shutdown
- Deactivate the TAN-607 spent fuel storage pools
- Decommission 607 North Area
- Decommission TAN-607 Hot Shop, hot cells, and warm shop area
- Decontaminate the TAN-607 hot shop, hot cell areas, and tunnel to levels necessary to accomplish decommissioning
- Decontaminate the TAN-607 North Area
- Decontaminate the TAN-607 South buildings and facilities to levels necessary to accomplish decommissioning
- Draft and Final V-Tanks Remedial Design/Remedial Action (RD/RA) Scope of Work
- Draft and Final V-Tanks Safety Analysis Report (SAR) and Technical Safety Requirements Addendum
- Draft, Draft Final, and Final RD/RA Work Plan and supporting documents for the V-Tanks
- Drain all fluid systems in the TAN-607 Central Area and shutdown systems not required for deactivation of fuel pools or hot and warm shops
- Drain all fluid systems in the TAN-607 High Bay, Machine Shop and PREPP area
- Drain all fluid systems in the TAN-607 North Area
- Final Inspection and Report for OU 1-10 Remedial Action completion
- Final Revision to the OU 1-10 Operations and Maintenance Plan
- Final Revision to the WAG 1 Institutional Control Plan
- Final V-Tanks Hazard Analysis Document
- Final V-Tanks Record of Decision (ROD) Amendment
- Issue Final D&D Report for the TAN-616 Liquid Waste Treatment System
- New Group 2 V-Tanks RD/RA Work Plan

## SUBPROJECT PLAN

WBS: A.1.02.00.01

Title: TAN-SP1 TAN-607 Facilities

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- OU 1-10 Remedial Action Draft, Draft Final, and Final Remedial Action Report
- Perform Davis Bacon determination for D&D activities
- Pre Final Inspection Checklist and Report for OU 1-10 remedial action completion
- Provide new work scope and cost estimate for TAN-607 hot shop, hot cells, tunnel, and warm shop area characterization and deactivation
- Remove and dispose of the TAN-607 spent fuel storage pool water
- Remove and dispose TAN-666
- Remove racks, sludge and equipment from the TAN-607 spent fuel storage pools
- Replace roof or other structural components as required for extended periods of time between deactivation and decommission phases of the facility excess cycle
- Shutdown all utility, HVAC, operational and electrical systems in the TAN-607 North Area
- Shutdown all utility, HVAC, operational and electrical systems in the TAN-607 Hot and Warm shops, and the fuel storage pool
- TSF-46, TAN-616 Soils Track 2 Report
- TSF-47, TAN-615 Sewer Line Soils Track 2 Report.
- V-Tanks Remedial Action Pre Final Inspection Checklist and Report for start of tank contents treatment
- V-Tanks Remedial Action Readiness Assessment Plan and Report
- V-Tanks site backfill and restoration complete
- V-Tanks Site Clean Closure Report
- V-Tanks soil, tanks, and piping removal and disposal complete
- V-Tanks tank contents treatment and disposal complete.

### 3. ESTIMATE DEVELOPMENT BASIS:

Costs were taken from detailed cost estimates (when available), rough order of magnitude model prepared for D&D&D activities, and professional expertise where subject matter experts provided specific information. See project files for details.

The cost estimate for TAN-616 was developed by the Bechtel BWXT Idaho, LLC (BBWI) cost-estimating group. The estimate basis is stated in the estimate, file number 6268-B. Estimate durations are adjusted to reflect the project schedule.

The cost estimates for the V-Tanks are developed using a combination of experience to date, vendor quotes, discussions with subcontractors and performing organizations, the Idaho National Engineering and Environmental Laboratory (INEEL) Environmental Restoration Program Cost Estimating Handbook, INEEL cost estimating department, the OU 1-10 Remedial Investigation and Feasibility Study, and engineering judgment. Please refer to the cost estimate sheets for more detail on the specific cost estimate basis used for each planning package and schedule activity. Additional detail on the individual planning package cost estimates is in the project files.

The estimate basis for VCO SITE -TANK-005 characterization and follow-on activities is published in the "Voluntary Consent Order Phase 1 and Phase 2 Cost Estimate for FY 2005 to Project End Life-cycle Plan" (INEEL/EXT-02-00022), dated April 2002. The basis for the present life-cycle baseline is revised as appropriate to incorporate experience gained since the document was published, and a revised version will be issued.

## SUBPROJECT PLAN

WBS: A.1.02.00.01

Title: TAN-SP1 TAN-607 Facilities

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### 4. ASSUMPTIONS:

The project key assumptions are divided into planning basis and external milestones. More detailed assumptions are included in the cost estimates and are considered included by reference.

#### **PLANNING BASIS**

- Additional sampling and analysis is required for the TAN-616 VCO buried site piping follow-on milestone. It is assumed that 10 units require full Tier 1 analysis and Level A validation.
- All contaminated soil from the V-Tanks site shipped to the ICDF is transported in roll-off containers. These containers and transport vehicles are provided by the ICDF at no cost. All legacy SNF casks and equipment are removed from the hot cell and hot shop prior to deactivation.
- All VCO tanks systems in TAN Completion are characterized, and documentation submitted to DEQ, during FY 2003.
- All site activities are planned using the 4-10 calendar.
- All V-Tanks Early Remedial Action scope is completed in FY 2003.
- Underground piping and systems remain unless they are part of an identified existing or new CERCLA site or RCRA Closure; however, piping will be isolated near buildings, as appropriate
- RWMC takes all radioactive waste from the TAN-607 hot shop and hot cell area deactivation.
- Scope and cost for institutional controls, environmental monitoring, and site maintenance are addressed in INEEL Surveillance, Monitoring, and Long Term Operations, and are not included in this subproject.
- TAN-607 hot shop and hot cell shielding windows are drained prior to securing steam heat to TAN-607.
- TAN-607 North Water Treatment and Filtration facilities are deactivated along with the pool (if not needed for activities other than the water in the pool) deactivation.
- TAN-616 RCRA closure confirmation sampling and resulting risk assessment results in clean closure, with no further actions required.
- The follow-on VCO milestone for piping investigation involves examination of piping from TAN-607 to TAN-616 and the TAN-616 concentrate and condensate discharge piping. Removal of the TAN-616 concentrate and condensate piping is included in the estimate. No piping inside of TAN-607 is removed.
- The shutdown of all TAN utilities, HVAC, operational and electrical systems is coordinated to accomplish the shutdown of the entire TAN-TSF facility and adjacent buildings.
- No spent nuclear fuel, mixed low-level waste, or low-level waste remains, other than that generated by remediation, deactivation and decommissioning activities, or that already contained within the V-tanks.
- The Balance of INEEL Cleanup Project provides guidance for how five-year reviews are to be conducted and reported for inclusion in the OU 1-10 Operations and Maintenance Plan.
- The TAN Completion Project prepares the first five-year review for the OU 1-10 TAN Comprehensive Remediation.
- The Balance of INEEL Cleanup Project performs all subsequent five year reviews for both the OU 1-107B TAN Groundwater Remediation and the OU 1-10 TAN Comprehensive Remediation

#### **EXTERNAL ASSUMPTIONS**

- A revision to the TAN SAR to allow the TAN-607 pool water level to be lowered is approved in a timely manner to support the schedule

## SUBPROJECT PLAN

WBS: A.1.02.00.01

Title: TAN-SP1 TAN-607 Facilities

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- All facilities transitioned to the Office of Nuclear Energy, Science, and Technology (NE) are not returned to the Office of Environmental Management (EM) for D&D&D.
- All waste generated has a disposition path.
- Both VCO SITE -TANK-005 Systems within the TAN-607 Central Area Structures and Buildings will be characterized in FY 2003; TAN-031 contains hazardous waste, requiring RCRA Closure, and TAN-032 is non-hazardous, requiring only system isolation.
- Mixed low-level waste created during the deactivation of the TAN-607 buildings and structures, and the TAN-607 hot shop and hot cell areas has a disposition path.
- Significant re-work or additional characterization is not required to respond to DEQ comments on VCO characterization.
- Soil contamination beneath the concrete floors (soil beneath the V-Tanks is already part of the V-tanks remediation), if encountered, is turned over to the Waste Area Group I CERCLA for possible inclusion into the Federal Facility Agreement and Consent Order.
- Soil sites TSF-47 and TSF-48 are dispositioned by the Agencies as needing further sampling and analysis through a Track 2 process and report.
- The four V-Tanks are decontaminated and size reduced (vs. grouted) for disposal at the ICDF.
- The ICDF is available in July 2003 to accept all CERCLA waste that meets the ICDF waste acceptance criteria current as of November 2002.
- The Key Milestone in Section 4.5.4 of the July 2002 EM Project Management Plan stating: "Complete remediation of Test Area North (WAG 1) by September 2005, except for the on-going pump and treat of the groundwater" is revised to indicate June 2007 based on completion of V-Tanks soil, tanks, and piping removal and site restoration in FY 2006, and issuing the final OU 1-10 Remedial Action Report in 2007. This change is based on the DOE-ID accepted plan for the V-Tanks Path Forward to re-evaluate viable technologies and select a new remedy for the V-Tanks and the DOE-ID accepted plan to accelerate the TAN-616 D&D/VCO project to complete ahead of the V-Tanks Remediation.
- The remedy selected in the V-Tanks ROD Amendment in early FY 2004 is the preferred alternative of Chemical Oxidation and Stabilization as described in the Draft Technology Evaluation Report, DOE/ID-11038, November 2002.
- The TAN SAR is upgraded to show that TAN-607 has no SNF allowing the facility hazard classification to be lowered.
- The V Tank SAR is comparable in size, complexity, and cost to that performed for the In Situ Vitrification Demonstration effort at RWMC.
- The V-Tanks ROD Amendment becomes final by December 17, 2003.
- V-Tanks contents removal is completed in FY 2005 and no level monitoring is required after that time.



Activity ID	Activity Description	Early Start	Early Finish	Timeline																				
				FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24
<b>TAN-SP1 TAN 607 Facilities</b>																								
<b>TAN 607 - North Area Structures and Buildings</b>																								
<b>A.1.02.00.01.01.LC</b>																								
1LB1000	Deactivate TAN-633	04OCT04	15JUN09																					
1LC1000	Deactivate TAN-649	04OCT04	15JUN09																					
1LD1000	Deactivate TAN-666	04OCT04	24MAY10																					
1LPM107	FY04-FY2014 Project Management	04OCT04	21JAN14																					
1LPM127	Contingency Adjustment	04OCT04	29SEP05																					
1LPM137	Contingency Adjustment	03OCT05	28SEP06																					
1LA1000	Deactivation TAN-608	03OCT06	09JUN11																					
1LE1000	Deactivate TAN-770	03OCT06	22MAY12																					
1LB8000	Decommission & Demolition TAN-633	16JUN09	07FEB11																					
1LC8000	Decommission & Demolition TAN-649	16JUN09	07FEB11																					
1LD8000	Decommission & Demolition TAN-666	25MAY10	19JAN12																					
1LA8000	Decommission & Demolition TAN-608	13JUN11	06FEB13																					
1LE8000	Decommission & Demolition TAN-770	23MAY12	21JAN14																					
<b>TAN 607 - Central Area Structures and Buildings</b>																								
<b>VCO TAN-031 Demineralized Water System RCRA Clos</b>																								
1LV1000	VCO TAN-031 Submit Drft RCRA Closure Pln to	01OCT03	29JAN04																					
1LV1110	VCO TAN-031 Finlz Drft RCRA Closure Pln to	02FEB04	30SEP04																					
<b>A.1.02.00.01.02.LC</b>																								
1LH0100	TAN 607 Storage Pool Deactivation	01OCT03	30SEP04																					
1LJ1000	Deactivate TAN-662	01OCT03	16AUG04																					
1LPM204	FY04 Project Management	01OCT03	30SEP04																					
1LPM217	Contingency Adjustment	01OCT03	30SEP04																					
1LJ8000	Decommission & Demolition TAN-662	17AUG04	16MAR05																					
1LIII2C	PBI III.2c Rem.Water/sludge/Debris TAN 607		30SEP04																					
1LH0110	TAN 607 Pool Deactivation Closeout	01OCT04	23DEC04																					
1LPM205	FY05 Project Management	04OCT04	16MAR05																					
1LPM227	Contingency Adjustment	04OCT04	29SEP05																					
1LPM237	Contingency Adjustment	03OCT05	28SEP06																					
1LK1000	Deactivate TAN-668	03OCT07	11JUN12																					
1LL1000	Deactivate TAN-734	03OCT07	29MAR12																					
1LN1000	Deactivate TAN-607 Hot Shop	03OCT07	05SEP12																					
1LPM206	FY08-FY 2014 Project Management	03OCT07	17FEB14																					
1LL8000	Decommission & Demolition TAN-734	02APR12	19NOV13																					
1LK8000	Decommission & Demolition TAN-668	12JUN12	06FEB14																					
1LN8000	Decommission & Demolition TAN-607 Hot Shop	03OCT16*	13SEP18																					
1LI1000	Deactivate TAN-655	03OCT17	13JUN22																					
1LPM207	FY2018 - FY 2019 Project Management	03OCT17	30SEP19																					
1LF1000	Deactivate TAN-1734	17SEP18	20SEP22																					
1LP607	Underground Piping Systems	17SEP18	14SEP20																					

Start Date	01APR03		Early Bar	TN04	Sheet 9 of 21
Finish Date	30SEP25		Progress Bar	<p align="center"><b>TAN COMPLETION PROJECT</b></p> <p align="center">Lifecycle Baseline - Rev 1</p>	
Data Date	01OCT03		Critical Activity		
Run Date	10APR03 12:58				
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Activity ID	Activity Description	Early Start	Early Finish	Timeline																				
				FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24
1LPM208	FY2020 - FY 2024 Project Management	01OCT19	13MAY24																					
1LI8000	Decommission & Demolition TAN-655	14JUN22	08FEB24																					
1LF8000	Decommission & Demolition TAN-1734	21SEP22	15MAY24																					
<b>TAN 607 - South Area Structures and Buildings</b>																								
<b>A.1.02.00.01.03.LC</b>																								
1LPM317	Contingency Adjustment	01OCT03	30SEP04																					
1LO1000	Deactivate TAN-686	04OCT04	16MAR06																					
1LP1000	Deactivate TAN-694	04OCT04	26SEP07																					
1LPM303	Project Management FY 05-06	04OCT04	28SEP06																					
1LPM327	Contingency Adjustment	04OCT04	29SEP05																					
1LPM337	Contingency Adjustment	03OCT05	28SEP06																					
1LO8000	Decommission & Demolition TAN-686	20MAR06	18OCT06																					
1LG1000	Deactivate TAN-607 South	02OCT06*	01SEP11																					
1LPM304	Project Management	02OCT06	29SEP11																					
1LM1000	Deactivate TAN-1731	03OCT06	06JUL09																					
1LP8000	Decommission & Demolition TAN 694	27SEP07	13OCT08																					
1LM8000	Decommission & Demolition TAN-1731	07JUL09	21JUL10																					
1LG8000	Decommission & Demolition TAN-607 South	03OCT16*	13SEP18																					
1LPM307	FY2019 - FY 2022 Project Management	17SEP18	12SEP22																					
1LQ1000	Deactivate TAN-795	17SEP18	07SEP21																					
1LR1000	Deactivate TAN-798	17SEP18	07SEP21																					
1LQ8000	Decommission & Demolition TAN-795	08SEP21	22SEP22																					
1LR8000	Decommission & Demolition TAN-798	08SEP21	22SEP22																					
<b>TAN 616 - Liquid Waste Treatment System</b>																								
<b>VCO New TAN-008</b>																								
1LPM417	Contingency Adjustment	01OCT03	30SEP04																					
1LV2000	VCO TAN-008 Perform RCRA Closure	01OCT03	24DEC03																					
1LV2100	VCO TAN-008 RCRA Closure Certification	05JAN04	30JUN04																					
1LV2200	VCO TAN-008 Complete Closure Certification		30JUN04																					
1LV2325	VCO TAN-008 Follow On Actions (6" Warm	01JUL04	24FEB05																					
1LPM427	Contingency Adjustment	04OCT04	29SEP05																					
1LV2350	VCO TAN-008 Follow-on Actions (4" Hot Drain)	28FEB05	24OCT05																					
1LPM437	Contingency Adjustment	03OCT05	28SEP06																					
1LV2375	VCO TAN-008 Follow-on Actions (Other Piping)	25OCT05	28SEP06																					
<b>D&amp;D</b>																								
1LS1000	Deactivate TAN-616	01JUL04	05AUG04																					
1LS9100	Decommission & Demolition TAN-616	09AUG04	30SEP04																					
<b>OU 1-10 V-Tanks Remediation</b>																								
<b>WP-1 V-Tanks Project Management and Support</b>																								
1LVPM17	Contingency Adjustment	01OCT03	30SEP04																					
1LW1004	FY04 Project Management & Support	01OCT03	30SEP04																					
1LVPM27	Contingency Adjustment	04OCT04	29SEP05																					

Start Date 01APR03  
Finish Date 30SEP25  
Data Date 01OCT03  
Run Date 10APR03 12:58

Early Bar  
Progress Bar  
Critical Activity

TN04  
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TAN COMPLETION PROJECT  
Lifecycle Baseline - Rev 1



Activity ID	Activity Description	Early Start	Early Finish																						
				FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25
1LW7700	V-Tank Backfill, Site Restoration, & Final Inspc	01AUG06	28SEP06																						
PP-7 OU 1-10 Remedial Action Report																									
1LW8000	V-Tank Remedial Action Report	02OCT06	29MAR07																						
OU 1-11 V-Tank Area New CERCLA Sites																									
PP-1 TSF-46 TAN 616 Soils																									
1LW1000	TAN 616 Soils Sampling	01APR04*	28SEP04																						
PP-2 TDSF-47 TAN 615 Sewer Line Soils																									
1LW00	TAN 615 Sewer Line Soils Sampling	01APR04	28SEP04																						
PP-3 TSF-48 TAN 615 Sump Soils																									
1LW3000	TAN 615 Sump Soils Sampling	01APR04	28SEP04																						

Start Date 01APR03  
 Finish Date 30SEP25  
 Data Date 01OCT03  
 Run Date 10APR03 12:58

 Early Bar  
 Progress Bar  
 Critical Activity

TN04 Sheet 12 of 21

TAN COMPLETION PROJECT  
 Lifecycle Baseline - Rev 1

**Subproject 1 - TAN 607 Facilities**

Subproject Breakout by Control Account

WBS[5]	WBS[6]		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019
<b>A.1.02.00.01 TAN-SP1 TAN 607 Facilities</b>																		
	<b>BURDENED BASE</b>																	
	A.1.02.00.01.01 TAN 607 - North Area Structures and Buildings	BCWS	0	2,136	2,470	2,502	2,522	2,390	2,076	1,322	591	437	126	0	0	0	0	0
	A.1.02.00.01.02 TAN 607 - Central Area Structures and Buildings	BCWS	2,199	98	0	0	8,265	8,298	8,298	8,331	7,732	781	272	0	0	4,048	4,529	2,893
	A.1.02.00.01.03 TAN 607 - South Area Structures and Buildings	BCWS	0	187	185	3,782	3,800	3,762	3,756	3,507	0	0	0	0	0	1,992	1,930	636
	A.1.02.00.01.04 TAN 616 - Liquid Waste Treatment System	BCWS	4,643	1,810	1,845	0	0	0	0	0	0	0	0	0	0	0	0	0
	A.1.02.00.01.05 OU 1-10 V-Tanks Remediation	BCWS	4,184	10,504	3,368	320	0	0	0	0	0	0	0	0	0	0	0	0
	A.1.02.00.01.06 OU 1-11 V-Tank Area New CERCLA Sites	BCWS	898	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Results Totals:</b>	<b>BCWS</b>	<b>11,924</b>	<b>14,735</b>	<b>7,867</b>	<b>6,604</b>	<b>14,587</b>	<b>14,450</b>	<b>14,130</b>	<b>13,160</b>	<b>8,323</b>	<b>1,218</b>	<b>398</b>	<b>0</b>	<b>0</b>	<b>6,040</b>	<b>6,459</b>	<b>3,529</b>
	<b>ESCALATE</b>																	
	A.1.02.00.01.01 TAN 607 - North Area Structures and Buildings	BCWS	0	105	174	232	292	332	338	246	125	105	32	0	0	0	0	0
	A.1.02.00.01.02 TAN 607 - Central Area Structures and Buildings	BCWS	69	4	0	0	953	1,151	1,350	1,559	1,636	187	70	0	0	1,394	1,688	1,147
	A.1.02.00.01.03 TAN 607 - South Area Structures and Buildings	BCWS	0	9	13	351	440	524	613	656	0	0	0	0	0	686	719	257
	A.1.02.00.01.04 TAN 616 - Liquid Waste Treatment System	BCWS	182	96	138	0	0	0	0	0	0	0	0	0	0	0	0	0
	A.1.02.00.01.05 OU 1-10 V-Tanks Remediation	BCWS	112	521	255	28	0	0	0	0	0	0	0	0	0	0	0	0
	A.1.02.00.01.06 OU 1-11 V-Tank Area New CERCLA Sites	BCWS	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Results Totals:</b>	<b>BCWS</b>	<b>388</b>	<b>737</b>	<b>580</b>	<b>611</b>	<b>1,685</b>	<b>2,007</b>	<b>2,301</b>	<b>2,461</b>	<b>1,762</b>	<b>292</b>	<b>102</b>	<b>0</b>	<b>0</b>	<b>2,081</b>	<b>2,407</b>	<b>1,405</b>
	<b>SUMMARY (Base + Escalation)</b>																	
	A.1.02.00.01.01 TAN 607 - North Area Structures and Buildings	BCWS	0	2,242	2,643	2,734	2,814	2,721	2,414	1,568	716	542	158	0	0	0	0	0
	A.1.02.00.01.02 TAN 607 - Central Area Structures and Buildings	BCWS	2,268	103	0	0	9,218	9,450	9,648	9,890	9,369	968	342	0	0	5,442	6,217	4,040
	A.1.02.00.01.03 TAN 607 - South Area Structures and Buildings	BCWS	0	196	198	4,133	4,239	4,286	4,369	4,163	0	0	0	0	0	2,678	2,648	894
	A.1.02.00.01.04 TAN 616 - Liquid Waste Treatment System	BCWS	4,826	1,906	1,983	0	0	0	0	0	0	0	0	0	0	0	0	0
	A.1.02.00.01.05 OU 1-10 V-Tanks Remediation	BCWS	4,295	11,025	3,623	348	0	0	0	0	0	0	0	0	0	0	0	0
	A.1.02.00.01.06 OU 1-11 V-Tank Area New CERCLA Sites	BCWS	924	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Results Totals:</b>	<b>BCWS</b>	<b>12,312</b>	<b>15,472</b>	<b>8,446</b>	<b>7,215</b>	<b>16,271</b>	<b>16,457</b>	<b>16,431</b>	<b>15,621</b>	<b>10,085</b>	<b>1,510</b>	<b>500</b>	<b>0</b>	<b>0</b>	<b>8,120</b>	<b>8,865</b>	<b>4,933</b>

**Subproject 1 - TAN 607 Facilities**

Subproject Breakout by Control Account

WBS[5]	WBS[6]			FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Cumulative
A.1.02.00.01	TAN-SP1	TAN 607 Facilities							
	<b>BURDENED BASE</b>								
	A.1.02.00.01.01	TAN 607 - North Area Structures and Buildings	BCWS	0	0	0	0	0	16,570
	A.1.02.00.01.02	TAN 607 - Central Area Structures and Buildings	BCWS	2,313	110	109	101	60	58,437
	A.1.02.00.01.03	TAN 607 - South Area Structures and Buildings	BCWS	639	637	585	0	0	25,398
	A.1.02.00.01.04	TAN 616 - Liquid Waste Treatment System	BCWS	0	0	0	0	0	8,298
	A.1.02.00.01.05	OU 1-10 V-Tanks Remediation	BCWS	0	0	0	0	0	18,376
	A.1.02.00.01.06	OU 1-11 V-Tank Area New CERCLA Sites	BCWS	0	0	0	0	0	898
	<b>Results Totals:</b>	<b>BCWS</b>		<b>2,952</b>	<b>747</b>	<b>694</b>	<b>101</b>	<b>60</b>	<b>127,977</b>
	<b>ESCALATE</b>								
	A.1.02.00.01.01	TAN 607 - North Area Structures and Buildings	BCWS	0	0	0	0	0	1,982
	A.1.02.00.01.02	TAN 607 - Central Area Structures and Buildings	BCWS	981	51	54	53	33	12,381
	A.1.02.00.01.03	TAN 607 - South Area Structures and Buildings	BCWS	277	296	289	0	0	5,130
	A.1.02.00.01.04	TAN 616 - Liquid Waste Treatment System	BCWS	0	0	0	0	0	417
	A.1.02.00.01.05	OU 1-10 V-Tanks Remediation	BCWS	0	0	0	0	0	916
	A.1.02.00.01.06	OU 1-11 V-Tank Area New CERCLA Sites	BCWS	0	0	0	0	0	25
	<b>Results Totals:</b>	<b>BCWS</b>		<b>1,259</b>	<b>347</b>	<b>343</b>	<b>53</b>	<b>33</b>	<b>20,851</b>
	<b>SUMMARY (Base + Escalation)</b>								
	A.1.02.00.01.01	TAN 607 - North Area Structures and Buildings	BCWS	0	0	0	0	0	18,552
	A.1.02.00.01.02	TAN 607 - Central Area Structures and Buildings	BCWS	3,295	161	163	153	93	70,818
	A.1.02.00.01.03	TAN 607 - South Area Structures and Buildings	BCWS	916	933	874	0	0	30,528
	A.1.02.00.01.04	TAN 616 - Liquid Waste Treatment System	BCWS	0	0	0	0	0	8,714
	A.1.02.00.01.05	OU 1-10 V-Tanks Remediation	BCWS	0	0	0	0	0	19,292
	A.1.02.00.01.06	OU 1-11 V-Tank Area New CERCLA Sites	BCWS	0	0	0	0	0	924
	<b>Results Totals:</b>	<b>BCWS</b>		<b>4,211</b>	<b>1,094</b>	<b>1,037</b>	<b>153</b>	<b>93</b>	<b>148,828</b>

# SUBPROJECT PLAN

WBS: A.1.02.00.02  
Title: TAN-SP2 WRRTF Facilities

---

PROJ Mgr:	<u>Robert Miklos</u>	Planning & Controls:	<u>Mike Duffy</u>
DOE-ID:		ES&H Field Manager:	<u>Charles Chebul</u>
TAN Manager:	<u>Robert Miklos</u>	Other:	
Project Manager for Project Support and Facility Authorization			<u>Robert Miklos</u>

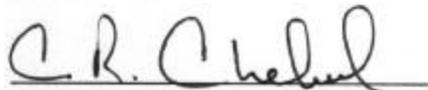
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APPROVED BY:

  
Subproject Plan Manager

4/3/03

Date

  
ES&H Representative

4/3/03

Date

---

## 1. WORK DESCRIPTION:

Test Area North (TAN)-SP2, Water Reactor Research Test Facility (WRRTF) Facilities Subproject (WBS A.1.02.00.02) completes Voluntary Consent Order (VCO) characterization at WRRTF, then deactivates and decommissions the WRRTF area.

This subproject consists of one control account, TAN-SP2 WRRTF Facilities (WBS A.1.02.00.02).

In this subproject, all tenants are moved to other Idaho National Engineering and Environmental Laboratory (INEEL) locations, the facility is declared excess, and all of WRRTF is taken out of service in a phased manner to allow for characterization, hazard removal to complete deactivation. The facility is then prepared for decommissioning. The debris from WRRTF area is disposed of in a new landfill established near WRRTF (funded under TAN Area Consolidation) or at another INEEL landfill.

The following buildings and structures are included in this subproject.

---

Building/Structure	Use	
TAN-640	Assembly and Test Building	
TAN-641	Control and Equipment	
TAN-643	Chlorination Building	
TAN-644	Deepwell Pump House	
TAN-645	Control and Administration Building	
TAN-646	Assembly and Test Building	
TAN-642	Guard House	
TAN-652	Fire Protection Pump House	
TAN-729	Substation	
TAN-1738	Heating Oil Tank	
TAN-730	Substation	
TAN-731	Water Storage Tank	
TAN-737	Septic Tank	VCO <sup>a</sup>
TAN-747	Steam Tanks (1,2, and 4)	VCO
TAN-758	Suppression Air Tank	VCO
TAN-759	Diesel Tank	

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a. VCO – The system is addressed under the Voluntary Consent Order.

# SUBPROJECT PLAN

WBS: A.1.02.00.02  
Title: TAN-SP2 WRRTF Facilities

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Building/Structure	Use	
TAN-1743	Lift Station	VCO
TAN-1744	Lift Station	VCO
TAN-728	Water Tank	

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## 2. MAJOR PRODUCTS AND DELIVERABLES:

- Complete facility transition by taking WRRTF out of service, performing characterization and hazard stabilization, deactivation, then placing it into a cold, dark, and dry state.
- Demolish all WRRTF buildings and structures as a project, at the same time and by the same work crew.
- Remove all asbestos before decommissioning.

## 3. ESTIMATE DEVELOPMENT BASIS:

Costs were taken from detailed cost estimates (when available), rough order of magnitude model prepared for deactivation, decontamination, and decommissioning (D&D&D)<sup>b</sup> activities, and professional expertise where subject matter experts provided specific information. See project files for details.

The estimate basis for VCO SITE -TANK-005 characterization and follow-on activities is published in the Voluntary Consent Order Phase 1 and Phase 2 Cost Estimate for FY 2005 to Project End Life-cycle Plan (INEEL/EXT-02-00022), dated April 2002. The basis for the present life-cycle baseline is revised as appropriate to incorporate experience gained since the document was published, and a revised version will be issued.

## 4. ASSUMPTIONS:

The project key assumptions are divided into planning basis and external milestones. More detailed assumptions are included in the cost estimates and are considered included by reference.

### **PLANNING BASIS**

- All characterization, follow-on actions, and isolations required for VCO systems are completed.
- All resources planned are available to perform the work when scheduled.
- All site activities are planned using the 4-10 calendar.
- All VCO tanks systems in TAN Completion are characterized, and documentation submitted to Idaho Division of Environmental Quality (DEQ), during FY 2003.
- All waste generated has a disposition path.
- No spent nuclear fuel, mixed low-level waste, or low-level waste remains, other than that generated by remediation, deactivation and decommissioning activities.

### **EXTERNAL ASSUMPTIONS**

- No future use is envisioned for any WRRTF facilities.
- Paving, underground utilities, fences, and power poles are left in place.

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b. Deactivation – The process of placing a contaminated excess facility in a stable condition to minimize existing risks and the related life-cycle cost of a surveillance and maintenance program that is protective of workers, the public and the environment. (DOE G 430.1-3).

Decontamination – The process of removing contamination at DOE facilities. “Contamination” refers to both radioactive contamination and to hazardous substance contamination.

Decommission - The process where the facility is taken to its ultimate end state through decontamination and/or dismantlement to demolition or entombment. (DOE G 430.1-4).

## SUBPROJECT PLAN

**WBS: A.1.02.00.02**  
**Title: TAN-SP2 WRRTF Facilities**

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- Significant re-work or additional characterization is not required to respond to DEQ comments on VCO characterization.



Activity ID	Activity Description	Early Start	Early Finish	FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16 FY17 FY18 FY19 FY20 FY21 FY22 FY23 FY24 FY25																				
				Gantt Chart																				
TAN-SP2 WRRTF Facilities																								
WRRTF Structures and Buildings																								
A.1.02.00.02.01.LC																								
2LB1000	Deactivate TAN-1738	04OCT04	11MAY06																					
2LD1000	Deactivate TAN-640	04OCT04	11MAY06																					
2LE1000	Deactivate TAN-641	04OCT04	11MAY06																					
2LF1000	Deactivate TAN-642	04OCT04	11MAY06																					
2LG1000	Deactivate TAN-643	04OCT04	11MAY06																					
2LH1000	Deactivate TAN-644	04OCT04	11MAY06																					
2LI1000	Deactivate TAN-645	04OCT04	11MAY06																					
2LL1000	Deactivate TAN-652	04OCT04	11MAY06																					
2LM1000	Deactivate TAN-728	04OCT04	11MAY06																					
2LMS8000	Start WRRTF	04OCT04*																						
2LN1000	Deactivate TAN-729	04OCT04	11MAY06																					
2LO1000	Deactivate TAN-730	04OCT04	11MAY06																					
2LP1000	Deactivate TAN-731	04OCT04	11MAY06																					
2LPM105	FY05 Project Management	04OCT04	29SEP05																					
2LPM127	Contingency Adjustment	04OCT04	29SEP05																					
2LR1000	Deactivate TAN-759	04OCT04	11MAY06																					
2LJ1000	Deactivate TAN-646	03OCT05	14MAY07																					
2LPM106	FY06+ Project Management	03OCT05	05JUN08																					
2LPM137	Contingency Adjustment	03OCT05	28SEP06																					
2LB8000	Decommission & Demolition TAN-1738	15MAY06	31MAY07																					
2LD8000	Decommission & Demolition TAN-640	15MAY06	31MAY07																					
2LE8000	Decommission & Demolition TAN-641	15MAY06	31MAY07																					
2LF8000	Decommission & Demolition TAN-642	15MAY06	31MAY07																					
2LG8000	Decommission & Demolition TAN-643	15MAY06	31MAY07																					
2LH8000	Decommission & Demolition TAN 644	15MAY06	31MAY07																					
2LI8000	Decommission & Demolitionn TAN-645	15MAY06	31MAY07																					
2LL8000	Decommission & Demolition TAN-652	15MAY06	31MAY07																					
2LM8000	Decommission & Demolition TAN-728	15MAY06	31MAY07																					
2LN8000	Decommission & Demolition TAN-729	15MAY06	31MAY07																					
2LO8000	Decommission & Demolition TAN-730	15MAY06	31MAY07																					
2LP8000	Decommission & Demolition TAN-731	15MAY06	31MAY07																					
2LR8000	Decommission & Demolition TAN-759	15MAY06	31MAY07																					
2LJ8000	Decommission & Demolition TAN-646	15MAY07	02JUN08																					
2LMS8101	WRRTF D&D Complete		02JUN08																					

Start Date 01APR03  
Finish Date 30SEP25  
Data Date 01OCT03  
Run Date 10APR03 12:58

Early Bar  
 Progress Bar  
 Critical Activity

TN04  
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Lifecycle Baseline - Rev 1



**Subproject 2 - WRRTF Facilities**

Subproject Breakout by Control Account

WBS[5]	WBS[6]		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Cumulative
<b>A.1.02.00.02 TAN-SP2 WRRTF Facilities</b>													
<b>BURDENED BASE</b>													
	A.1.02.00.02.01 WRRTF Structures and Buildings	BCWS	0	2,953	4,410	2,492	673	0	0	0	0	0	10,528
	<b>Results Totals:</b>	<b>BCWS</b>	<b>0</b>	<b>2,953</b>	<b>4,410</b>	<b>2,492</b>	<b>673</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10,528</b>
<b>ESCALATE</b>													
	A.1.02.00.02.01 WRRTF Structures and Buildings	BCWS	0	150	314	229	76	0	0	0	0	0	770
	<b>Results Totals:</b>	<b>BCWS</b>	<b>0</b>	<b>150</b>	<b>314</b>	<b>229</b>	<b>76</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>770</b>
<b>SUMMARY (Base + Escalation)</b>													
	A.1.02.00.02.01 WRRTF Structures and Buildings	BCWS	0	3,103	4,724	2,721	750	0	0	0	0	0	11,298
	<b>Results Totals:</b>	<b>BCWS</b>	<b>0</b>	<b>3,103</b>	<b>4,724</b>	<b>2,721</b>	<b>750</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11,298</b>



# SUBPROJECT PLAN

WBS: A.1.02.00.03  
Title: TAN-SP3 LOFT Facilities

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PROJ Mgr:	<u>Robert Miklos</u>	Planning & Controls:	<u>Mike Duffy</u>
DOE-ID:		ES&H Field Manager:	<u>Charles Chebul</u>
TAN Manager:	<u>Robert Miklos</u>	Other:	
Project Manager for Project Support and Facility Authorization			<u>Robert Miklos</u>

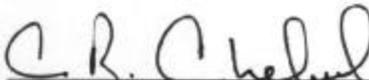
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## APPROVED BY:

  
\_\_\_\_\_  
Subproject Plan Manager

4/3/03

\_\_\_\_\_  
Date

  
\_\_\_\_\_  
ES&H Representative

4/3/03

\_\_\_\_\_  
Date

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## 1. WORK DESCRIPTION:

The Test Area North (TAN)-SP3, Contained Test Facility (CTF) Loss-of-fluid Test (LOFT) Subproject (WBS A.1.02.00.03) makes the Specific Manufacturing Complex (SMC) independent from the remainder of the TAN utility system, and inactivates all Office of Environmental Management (EM) facilities in the CTF area followed by selective demolition. All Voluntary Consent Order (VCO) Resource Conservation and Recovery Act (RCRA) characterization and follow-on actions at the CTF LOFT area are completed, and piping isolations to ensure that non-hazardous tanks cannot be contaminated for the whole TAN Completion Project are accomplished by this subproject.

There are three control accounts in this project: VCO LOFT (WBS A.1.02.00.03.01), LOFT Utility Disconnect and Reconfiguration (WBS A.1.02.00.03.02), and LOFT Deactivation, Decontamination and Decommissioning (D&D&D)<sup>a</sup> (WBS A.1.02.00.03.03).

VCO LOFT (WBS A.1.02.00.03.01) completes RCRA characterization and follow-on activities of all EM-funded tank systems at LOFT and included in the VCO Action Plan SITE -TANK-005 inventory. The work involves three principal activities that will be completed from FY 2004 through 2012. These activities are:

1. VCO TAN-010 Boiler Fuel Oil System (two tanks and ancillary equipment) is RCRA closed and requires interim actions
2. VCO TAN-020 HTRE Mercury Contamination Sumps (two tanks and ancillary equipment) are RCRA closed and require interim actions
3. The VCO TAN-012 Test Chamber Off-gas Control System (one silver zeolite filter bank, and ancillary equipment) and VCO TAN-013 Radioactive Contamination Control System (two silver zeolite filter banks and ancillary equipment) are included in the VCO TAN-020 closure.

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a. Deactivation – The process of placing a contaminated excess facility in a stable condition to minimize existing risks and the related life-cycle cost of a surveillance and maintenance program that is protective of workers, the public and the environment. (DOE G 430.1-3)

Decontamination – The process of removing contamination at DOE facilities. “Contamination” refers to both radioactive contamination and to hazardous substance contamination.

Decommissioning - A phase where the facility is taken to its ultimate end state through decontamination and/or dismantlement to demolition or entombment. (DOE G 430.1-4)

## SUBPROJECT PLAN

WBS: A.1.02.00.03

Title: TAN-SP3 LOFT Facilities

RCRA characterization of the remaining VCO SITE-TANK-005 inventory within the scope is completed by the end of FY 2003, and does not require follow-on actions other than physical isolation. Isolation, which is necessary to ensure that tanks certified as non-hazardous cannot be contaminated after the fact, is started in FY 2003 and continues through FY 2004.

LOFT Utility Disconnect and Reconfiguration (WBS A.1.02.00.03.02) works with the Office of Nuclear Energy (NE) and EM Landlords to shut down LOFT facilities and take them out of service. The facilities and structures not owned by NE are then prepared for characterization, hazard removal, deactivation and eventual decommissioning. This project also provides for engineering and management to support the disconnection of SMC from the TAN CTF area utilities, and disconnects the fire and voice communication system in CTF and Technical Support Facility (TSF) areas from SMC.

LOFT D&D&D (WBS A.1.02.00.03.03) transitions those facilities in the CTF LOFT area in two phases. The first phase includes those that are not physically connected to the LOFT facility or are not operationally connected to LOFT or SMC and are not be required to support deactivation. This scope transitions the Phase I facilities from an operational state, if operational, to excess via decontamination, deactivation, and final decommissioning. Many of the buildings and structures at LOFT are not in use and have been operationally abandoned, however utilities are still connected. LOFT D&D&D performs the workscope in accomplishing the characterization, decontamination, facility transition, and deactivation of the buildings and structures.

Prior to transitioning the Phase II Buildings and structures to deactivation, the work scope to complete the utility and electrical disconnection of SMC from the legacy TSF and the CTF is completed. This ensures that SMC can continue operations uninterrupted while the LOFT buildings and structures are deactivated and prepared for decommissioning.

### Phase I Building and Structures

Building	Use
TAN-631	Tank Building
TAN-635	HV-10 South CAM Building
TAN-637	Compressor Building
TAN-651	Heat Stress Relief Structure
TAN-657	Heat Stress Control Building
TAN-659	Control Building
TAN-663	HV-10 North CAM Building
TAN-716	Exhaust Duct & Stack
TAN-725	Vault Exhaust Stack
TAN-726	Hot Liquid Waste Storage Tank and Vault
TAN-746	Condenser Shelter Structure
TAN-771	Sulfuric Acid Tank

### Phase II Buildings and Structures

Building	Use
TAN-624	Containment Building
TAN-630	Control & Equipment Building
TAN-650	Containment Service Building
TAN-703	LOFT Exhaust Stack
TAN-767A	Boiler Fuel Oil Tank (FO-T-13A)

## SUBPROJECT PLAN

WBS: A.1.02.00.03  
Title: TAN-SP3 LOFT Facilities

Building	Use
TAN-744	Inlet Gas Supply Platform
TAN-745	Secondary Coolant System
TAN-768	Electrical Substation CTF South
TAN-719	Shielded Roadway to TAN-630
TAN-766	Diesel Fuel Oil Tank (DF-T-14)
TAN-767B	Boiler Fuel Oil Tank (FO-T-13B)

### 2. MAJOR PRODUCTS AND DELIVERABLES:

- Characterize and remove remaining facility hazards not previously cleaned up during facility transition from operational status to deactivation.
- Commence deactivation of facilities by taking them out of service via the TAN Completion Project Facility Excess planning and MCP-2860.
- Complete deactivation of LOFT and associated buildings and facilities.
- Complete decommissioning of LOFT and buildings and facilities.
- Complete State Historic Preservation Office determinations on all buildings and structures.
- Complete VCO TAN-010 Boiler Fuel Oil System RCRA Closure and perform interim actions.
- Complete VCO TAN-020 HTRE Mercury Contamination Sumps RCRA Closure and perform interim actions, including VCO TAN-012 and VCO TAN-013 Silver Zeolite Filter Banks.
- Cut, cap and isolate utilities not previously accomplished by the LOFT Utility Disconnect Project.
- Drain all fluid systems in the LOFT area and shutdown systems not required for deactivation of buildings and structures.
- Perform Davis Bacon determination.
- Perform physical isolations on 10 VCO tank systems (51 tanks total) located at LOFT to prevent their contamination after being certified as non-hazardous.
- Replace roof or other structural components as required for extended periods of time between deactivation and decommission phases of the facility excess cycle.
- Request and fund RCRA Closure permit or submit Underground Storage Tank closure documentation for underground, diesel storage tanks if required.
- Shutdown all utility; heating, ventilation, and air conditioning (HVAC); operational and electrical systems in LOFT buildings and structures.
- Turnover operational and maintenance responsibility for the fire and potable water pumps in TAN-665 and TAN-614 that supply SMC with fire suppression water fed from TAN-665.
- Work with the NE Landlord to disconnect SMC from the LOFT/EM utilities where appropriate.
- Work with the NE Landlord to provide engineering, management support, and oversight for disconnection of SMC from the LOFT electrical switchgear, fire and voice communication system panels and equipment that require electrical power.

### 3. ESTIMATE DEVELOPMENT BASIS:

Costs were taken from detailed cost estimates (when available), rough order of magnitude model prepared for deactivation, decontamination, and decommissioning (DD&D) activities, and professional expertise where subject matter experts provided specific information. See project files for details.

The estimate basis for VCO SITE -TANK-005 characterization and follow-on activities is published in the Voluntary Consent Order Phase 1 and Phase 2 Cost Estimate for FY 2005 to Project End Life-cycle Plan (INEEL/EXT-02-00022), dated April 2002. The basis for the present life-cycle baseline is revised as

## SUBPROJECT PLAN

WBS: A.1.02.00.03  
Title: TAN-SP3 LOFT Facilities

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appropriate to incorporate experience gained since the document was published, and a revised version will be issued.

#### 4. ASSUMPTIONS:

The project key assumptions are divided into planning basis and external milestones. More detailed assumptions are included in the cost estimates and are considered included by reference.

##### **PLANNING BASIS**

- All resources planned are available to perform the work when scheduled.
- All site activities are planned using the 4-10 calendar.
- All VCO tanks systems in TAN Completion are characterized, and documentation submitted to the Idaho Division of Environmental Quality (DEQ), during Fiscal Year (FY) 2003.
- All waste generated has a disposition path.
- No spent nuclear fuel, mixed low-level waste, or low-level waste remains, other than that generated by remediation, deactivation and decommissioning activities, or located in the characterized VCO systems.
- The shutdown of all TAN utilities, HVAC, operational and electrical systems is coordinated to accomplish the shutdown of the entire LOFT facility and adjacent buildings.

##### **EXTERNAL ASSUMPTIONS**

- All facilities transitioned to NE are not returned to EM for D&D&D.
- All VCO SITE-TANK-005 Systems within SP3 LOFT Facilities are characterized in FY 2003 and, with the exception of Systems TAN-010, TAN-020, TAN-012, and TAN-013, require no follow-on actions other than physical isolation.
- All waste generated has a disposition pathway.
- EM installs all required substations, electrical transmission lines, switchgear, and breakers to isolate SMC from the rest of TAN.
- EM provides funding for all General Plant, Capital Equipment, construction and crafts for disconnection of all utilities from the CTF area to SMC.
- Mixed low-level waste created during the deactivation of LOFT has a disposition path.
- NE commences funding of all maintenance of the firewater pumps located in TAN-665 and TAN-614 that supply firewater and potable water to SMC.
- Significant re-work or additional characterization is not required to respond to DEQ comments on VCO characterization.
- Soil contamination beneath the concrete floors, if encountered, is turned over to the Waste Area Group 1 CERCLA for possible inclusion into the Federal Facility Agreement and Consent Order.
- The TAN-736 septic tank does not require any remediation and will be left in place.
- VCO SITE-TANK-005 System TAN-010 is hazardous, and requires RCRA closure and interim actions.
- VCO SITE-TANK-005 Systems TAN-012 and TAN-013 are hazardous and are included in the RCRA Closure Plan for TAN-020.

Activity ID	Activity Description	Early Start	Early Finish																									
				FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25			
<b>TAN-SP3 LOFT Facilities</b>																												
<b>VCO LOFT</b>																												
<b>VCO TAN-010 Boiler Fuel Oil System RCRA Closure</b>																												
3LV1000	VCO TAN-010 Submit Drft Closure Plan to IDEQ	01OCT03	30JUN04	[Gantt bar]																								
3LV1100	VCO TAN-010 Fniz RCRA Closure & Obtain	01JUL04	31MAR05	[Gantt bar]																								
3LV1200	VCO TAN-010 Perform RCRA Closure	04APR05	30MAR06	[Gantt bar]																								
3LV2400	VCO TAN-010 RCRA Closure Certification	03APR06	31JUL06	[Gantt bar]																								
<b>VCO TAN-020 HTRE Mercury Contamination Sump Syst</b>																												
3LV2000	VCO TAN-020 Submit Closure Plan to IDEQ	01OCT03	23DEC04	[Gantt bar]																								
3LV2200	VCO TAN-020 IDEQ Approves RCRA Closure	03JAN05	29SEP05	[Gantt bar]																								
3LV2100	VCO TAN-020 Closure Plan Submitted to IDEQ		31MAR05*	[Gantt bar]																								
3LV2300	VCO TAN-020 Perform RCRA Closure	03OCT05	02JAN07	[Gantt bar]																								
3LV3100	VCO TAN-020 RCRA Closure Certification	03JAN07	30APR07	[Gantt bar]																								
3LV2145	SI 4.5 Comp. Remed. and Closure of VCO		27SEP12*	[Gantt bar]																								
<b>VCO TAN System Isolations</b>																												
3LPM217	Contingency Adjustment	01OCT03	30SEP04	[Gantt bar]																								
3LV3000	VCO TAN System Isolations	01OCT03	30SEP04	[Gantt bar]																								
3LPM227	Contingency Adjustment	04OCT04	29SEP05	[Gantt bar]																								
3LPM237	Contingency Adjustment	03OCT05	28SEP06	[Gantt bar]																								
<b>LOFT Utility Disconnect and Reconfiguration</b>																												
<b>A.1.02.00.03.02.LC</b>																												
3L00100	TAN LOFT Eng. Study LSS, Commun & Util Plan	01OCT03	04NOV03	[Gantt bar]																								
3LPM317	Contingency Adjustment	01OCT03	30SEP04	[Gantt bar]																								
3L00125	TAN LOFT Research LSS, Communicat &	05NOV03	18DEC03	[Gantt bar]																								
3L00150	TAN LOFT LSS, Communic & Alarm Eng Study	22DEC03	28JAN04	[Gantt bar]																								
3L01100	Develop System Design LOFT Firewater Tamper	29JAN04	23FEB04	[Gantt bar]																								
3L01115	TAN PM Loft Firewater Sys Tamper Indic	29JAN04	07APR04	[Gantt bar]																								
3L01200	Develop System Design LOFT Evacuation Sys	29JAN04	23FEB04	[Gantt bar]																								
3L01215	TAN PM Loft Evacuation Sys	29JAN04	07APR04	[Gantt bar]																								
3L01305	TAN LOFT Telephone Isolation Work Pkg	29JAN04	02FEB04	[Gantt bar]																								
3L01315	TAN LOFT Telephone Isolation (Qwest)	03FEB04	09FEB04	[Gantt bar]																								
3L01105	TAN Revise Dwgs Loft Firewater Tamper	24FEB04	01MAR04	[Gantt bar]																								
3L01205	TAN Revise Dwgs Loft Evacuation Sys	24FEB04	01MAR04	[Gantt bar]																								
3L01125	TAN Planning Loft Firewater Sys Tamper	02MAR04	09MAR04	[Gantt bar]																								
3L01225	TAN Planning Loft Evacuation Sys	02MAR04	09MAR04	[Gantt bar]																								
3L01135	TAN Construction LOFT Firewater Sys Tamper	10MAR04	16MAR04	[Gantt bar]																								
3L01235	TAN Construction LOFT Evacuation Sys	10MAR04	16MAR04	[Gantt bar]																								
3LIII2A	PBI III.2a Dial Room 601		16MAR04	[Gantt bar]																								
3LPM327	Contingency Adjustment	04OCT04	29SEP05	[Gantt bar]																								
3LPM337	Contingency Adjustment	03OCT05	28SEP06	[Gantt bar]																								

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 Early Bar  
 Progress Bar  
Critical Activity

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Activity ID	Activity Description	Early Start	Early Finish	Timeline																				
				FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24
LOFT D&D&D																								
LOFT Phase 1 D&D&D																								
3LPM117	Contingency Adjustment	01OCT03	30SEP04																					
3LPM127	Contingency Adjustment	04OCT04	29SEP05																					
3LL1000	Deactivate TAN-725	03OCT05	24SEP08																					
3LM1000	Deactivate TAN-726	03OCT05	23SEP10																					
3LN1000	Deactivate TAN-767A	03OCT05	24SEP08																					
3LO1000	Deactivate TAN-744	03OCT05	24SEP08																					
3LP1000	Deactivate TAN-768	03OCT05	24SEP08																					
3LPM137	Contingency Adjustment	03OCT05	28SEP06																					
3LPM204	Project Management	03OCT05	27SEP11																					
3LQ1000	Deactivate TAN-767B	03OCT05	24SEP08																					
3LR10	Deactivate TAN-771	03OCT05	24SEP08																					
3LS1000	Deactivate TAN-766	03OCT05	24SEP08																					
3LL8000	Decommission & Demolition TAN-725	25SEP08	12OCT09																					
3LN8000	Decommission & Demolition TAN-767A	25SEP08	12OCT09																					
3LO8000	Decommission & Demolition TAN-744	25SEP08	12OCT09																					
3LP8000	Decommission & Demolition TAN-768	25SEP08	12OCT09																					
3LQ8000	Decommission & Demolition TAN-767B	25SEP08	12OCT09																					
3LR8000	Decommission & Demolition TAN-771	25SEP08	12OCT09																					
3LS8000	Decommission & Demolition TAN-766	25SEP08	12OCT09																					
3LM8000	Decommission & Demolition TAN-726	27SEP10	11OCT11																					
3LG1000	Deactivate TAN-651	01OCT15*	25SEP18																					
3LA1000	Deactivate TAN-624	03OCT16*	02JUL19																					
3LB1000	Deactivate TAN-630	03OCT16*	26SEP19																					
3LC1000	Deactivate TAN-631	03OCT16*	26SEP19																					
3LD1000	Deactivate TAN-635	03OCT16*	26SEP19																					
3LE1000	Deactivate TAN-637	03OCT16*	26SEP19																					
3LF1000	Deactivate TAN-650	03OCT16*	26SEP19																					
3LH1000	Deactivate TAN-657	03OCT16*	26SEP19																					
3LI1000	Deactivate TAN-659	03OCT16*	26SEP19																					
3LJ1000	Deactivate TAN--663	03OCT16*	26SEP19																					
3LPM207	FY 2017+ Project Management	03OCT16	28SEP22																					
3LK1000	Deactivate TAN-719	17SEP18	07SEP21																					
3LG8000	Decommission & Demolition TAN-651	26SEP18	14OCT19																					
3LA8000	Decommission & Demolition TAN-624	03JUL19	20JUL20																					
3LB8000	Decommission & Demolition TAN-630	30SEP19	13OCT20																					
3LC8000	Decommission & Demolition TAN-631	30SEP19	13OCT20																					
3LD8000	Decommission & Demolition TAN-635	30SEP19	13OCT20																					
3LE8000	Decommission & Demolition TAN-637	30SEP19	13OCT20																					
3LF8000	Decommission & Demolition	30SEP19	13OCT20																					

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 Early Bar  
 Progress Bar  
 Critical Activity

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### Subproject 3 - LOFT Facilities

Subproject Breakout by Control Account

WBS[5]	WBS[6]		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
<b>A.1.02.00.03 TAN-SP3 LOFT Facilities</b>																
	<b>BURDENED BASE</b>															
	A.1.02.00.03.01 VCO LOFT	BCWS	5,845	1,561	3,119	487	0	0	0	0	0	0	0	0	0	0
	A.1.02.00.03.02 LOFT Utility Disconnect and Reconfiguration	BCWS	141	0	0	0	0	0	0	0	0	0	0	0	0	0
	A.1.02.00.03.03 LOFT D&D&D	BCWS	0	0	4,505	4,505	4,525	3,549	1,130	1,146	16	0	0	0	44	4,751
	<b>Results Totals:</b>	<b>BCWS</b>	<b>5,986</b>	<b>1,561</b>	<b>7,624</b>	<b>4,992</b>	<b>4,525</b>	<b>3,549</b>	<b>1,130</b>	<b>1,146</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>44</b>	<b>4,751</b>
	<b>ESCALATE</b>															
	A.1.02.00.03.01 VCO LOFT	BCWS	179	78	205	43	0	0	0	0	0	0	0	0	0	0
	A.1.02.00.03.02 LOFT Utility Disconnect and Reconfiguration	BCWS	3	0	0	0	0	0	0	0	0	0	0	0	0	0
	A.1.02.00.03.03 LOFT D&D&D	BCWS	0	0	317	417	523	493	185	216	3	0	0	0	14	1,639
	<b>Results Totals:</b>	<b>BCWS</b>	<b>182</b>	<b>78</b>	<b>522</b>	<b>460</b>	<b>523</b>	<b>493</b>	<b>185</b>	<b>216</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>1,639</b>
	<b>SUMMARY (Base + Escalation)</b>															
	A.1.02.00.03.01 VCO LOFT	BCWS	6,024	1,639	3,324	530	0	0	0	0	0	0	0	0	0	0
	A.1.02.00.03.02 LOFT Utility Disconnect and Reconfiguration	BCWS	144	0	0	0	0	0	0	0	0	0	0	0	0	0
	A.1.02.00.03.03 LOFT D&D&D	BCWS	0	0	4,821	4,922	5,048	4,042	1,315	1,362	20	0	0	0	58	6,390
	<b>Results Totals:</b>	<b>BCWS</b>	<b>6,167</b>	<b>1,639</b>	<b>8,145</b>	<b>5,452</b>	<b>5,048</b>	<b>4,042</b>	<b>1,315</b>	<b>1,362</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>58</b>	<b>6,390</b>

### Subproject 3 - LOFT Facilities

Subproject Breakout by Control Account

	WBS[6]		FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Cumulativ
<b>3 TAN-SP3 LOFT Facilities</b>								
<b>BURDENED BASE</b>								
	A.1.02.00.03.01 VCO LOFT	BCWS	0	0	0	0	0	11,012
	A.1.02.00.03.02 LOFT Utility Disconnect and Reconfiguration	BCWS	0	0	0	0	0	141
	A.1.02.00.03.03 LOFT D&D&D	BCWS	4,755	4,777	3,525	758	637	38,623
	<b>Results Totals:</b>	<b>BCWS</b>	<b>4,755</b>	<b>4,777</b>	<b>3,525</b>	<b>758</b>	<b>637</b>	<b>49,776</b>
<b>ESCALATE</b>								
	A.1.02.00.03.01 VCO LOFT	BCWS	0	0	0	0	0	504
	A.1.02.00.03.02 LOFT Utility Disconnect and Reconfiguration	BCWS	0	0	0	0	0	3
	A.1.02.00.03.03 LOFT D&D&D	BCWS	1,775	1,920	1,520	351	315	9,689
	<b>Results Totals:</b>	<b>BCWS</b>	<b>1,775</b>	<b>1,920</b>	<b>1,520</b>	<b>351</b>	<b>315</b>	<b>10,196</b>
<b>SUMMARY (Base + Escalation)</b>								
	A.1.02.00.03.01 VCO LOFT	BCWS	0	0	0	0	0	11,516
	A.1.02.00.03.02 LOFT Utility Disconnect and Reconfiguration	BCWS	0	0	0	0	0	144
	A.1.02.00.03.03 LOFT D&D&D	BCWS	6,530	6,697	5,046	1,109	953	48,313
	<b>Results Totals:</b>	<b>BCWS</b>	<b>6,530</b>	<b>6,697</b>	<b>5,046</b>	<b>1,109</b>	<b>953</b>	<b>59,973</b>

## SUBPROJECT PLAN

WBS: A.1.02.00.04  
Title: TAN-SP4 TSF/Balance of TAN

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PROJ Mgr:	<u>Robert Miklos</u>	Planning & Controls:	<u>Mike Duffy</u>
DOE-ID:		ES&H Field Manager:	<u>Charles Chebul</u>
TAN Manager:	<u>Robert Miklos</u>	Other:	
Project Manager for Project Support and Facility Authorization			<u>Robert Miklos</u>

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### APPROVED BY:



Subproject Plan Manager

4/3/03

Date



ES&H Representative

4/3/03

Date

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### 1. WORK DESCRIPTION:

The Technical Support Facility (TSF)/Balance of Test Area North (TAN) Subproject (WBS A.1.02.00.04) deactivates and decommissions all the remaining TSF facilities that are currently without further mission. This project completes all the remaining environmental remediation required under the Federal Facilities Act and Consent Order (FFA/CO) that is not being performed in subproject TAN-SP1, TAN-607 Facilities, as well as remaining Voluntary Consent Order (VCO) issues. These projects comprise all the work needed to accomplish the Environmental Management (EM) cleanup mission at TAN with the exception of long-term monitoring and surveillance, which will be managed under a separate project, Idaho National Engineering and Environmental Laboratory (INEEL) Surveillance, Monitoring and Long-Term Stewardship Operations.

This subproject consists of five control accounts: Spent Nuclear Fuel (SNF) Pads and Material (WBS A.1.02.00.04.01); TSF Deactivation, Decontamination and Decommissioning (D&D&D)<sup>a</sup>/VCO (WBS A.1.02.00.04.02), TAN-607 Operational Dependent (WBS A.1.02.00.04.03), Operable Unit (OU) 1-10 TAN Comprehensive Remediation (WBS A.1.02.00.04.04), and Waste Area Group (WAG) 1 Cleanup Support and TAN Area New Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Sites (WBS A.1.02.00.04.05).

SNF Pads and Material (WBS A.1.02.00.04.01) includes the SNF scope required for ongoing SNF operations through Fiscal Year (FY) 2005. This includes planning, preparation, and shipment of the SNF casks from TAN to the Idaho Nuclear Technology and Engineering Center (INTEC); and preparing and shipping containers of cask handling and other SNF equipment to a storage location at INTEC. Other work includes sending all empty, existing and unused storage casks to INEEL Transportation, or to another Department of Energy (DOE) site for reuse or to final disposition; removing casks and other materials from the TAN-1006 and TAN-1007 pads, and removing data collection and weather monitoring equipment from TAN-618.

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<sup>a</sup> Deactivation – The process of placing a contaminated excess facility in a stable condition to minimize existing risks and the related life-cycle cost of a surveillance and maintenance program that is protective of workers, the public and the environment. (DOEG 430.1-3).

Decontamination – The process of removing contamination at DOE facilities. "Contamination" refers to both radioactive contamination and to hazardous substance contamination.

Decommission – The process where the facility is taken to its ultimate end state through decontamination and/or dismantlement to demolition or entombment. (DOE G 430.1-4).

## SUBPROJECT PLAN

WBS: A.1.02.00.04

Title: TAN-SP4 TSF/Balance of TAN

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Operation of the TAN-618 Data Collection Building, and the TAN-791 SNF Storage Pad until the casks are moved to INTEC (or the pads are empty and casks have been shipped to a permanent location) is included in the scope. The pad has SNF casks and the data collection building logs surveillance data for each of the casks. Support operations include hydrogen sampling. There is currently one concrete storage cask containing three contaminated CUNO® filters, and two unused concrete storage casks on the TAN-790 pad. The proposed disposition path for the CUNO® filters is burial at the Radioactive Waste Management Complex (RWMC). The filters may become an orphan waste since preliminary calculations for the current configuration of filters and cask indicate that the waste may exceed the performance assessment limits of 10 nCi/g for the RWMC. Since the filters are non-defense, disposal at the Waste Isolation Pilot Plant may not be a viable alternative. The viability of sending the material to National Spent Fuel Repository is explored in this work scope. Other onsite storage options are also examined.

FY 2003 tasks included as contingency for FY 2004 planning (50% cost of FY 2003 effort) include:

- Disposition any equipment in TAN-648 and TAN-647 not needed to support ongoing SNF activities.
- Disposition any equipment on the TAN-1007 pad not needed to support ongoing SNF activities.
- Disposition waste and scrap on the TAN-1006, TAN-790, and TAN-791 Pads and disposition any equipment in the general area not needed to support ongoing SNF activities.
- Prepare and ship the remaining equipment in the TAN-607 Hot Shop to TAN-648 or INTEC for storage.
- Prepare and ship the remaining ATG equipment in the TAN-607 Pool Area to the ATG cargo container for storage.

TSF DD&D/VCO (WBS A.1.02.00.04.02) transitions those facilities in the TSF area that are not operationally dependent on TAN-607 or a part of the TAN-607 facility grouping. This scope transitions the facilities from an operational state to excess via decontamination, deactivation, and final decommissioning and includes accomplishing the characterization, decontamination, facility transition, and deactivation of the buildings and structures listed in the table.

This control account funds a simple Resource Conservation and Recovery Act (RCRA) closure of one tank system from among the VCO tank systems that are characterized during FY 2003. A total of 33 VCO SITE -TANK-005 systems, comprising 118 tanks and ancillary equipment and piping are characterized during FY 2003; one of the systems is determined to be RCRA hazardous, and requires follow-on actions.

TAN-607 Operational Dependent (WBS A.1.02.00.04.03) maintains, operates, and transitions those facilities that are operationally dependent for TAN-607 deactivation. This scope includes characterization, decontamination, transition, deactivation, and decommissioning these buildings and structures. This work scope includes an integration function to ensure utilities and safety systems are operational to support this scope of work and scopes of work that are similar in the TAN-607 North and TAN-607 Central, and TAN-607 South control accounts. However, some of these buildings and structures are required to accomplish waste management, D&D&D, and other operational project scope addressed in all the TAN Completion Project subprojects.

OU 1-10 TAN Comprehensive Remediation (WBS A.1.02.00.04.04) provides for cleanup of six sites at TAN as addressed in the Final Record of Decision (ROD) for Test Area North, OU 1-10 (OU 1-10 ROD). The six sites addressed are:

1. TSF-26, PM-2A tanks contents and contaminated soil
2. TSF-06, Area B, soil contamination area south of the turntable
3. TSF-07, TAN Disposal Pond
4. TSF-03, TSF Burn Pit
5. WRRTF-01, WRRTF Burn Pits
6. WRRTF-13, Oil and diesel fuel leak.

## SUBPROJECT PLAN

**WBS: A.1.02.00.04**

**Title: TAN-SP4 TSF/Balance of TAN**

WAG 1 Cleanup Support and TAN Area New CERCLA Sites (WBS A.1.02.00.04.05) incorporates several aspects of Waste Area Group (WAG) 1 project management and support for the cleanup phase of the CERCLA process at WAG 1. This subproject also addresses the disposition and transfer of new CERCLA sites to WAG 10, Operable Unit (OU) 10-08. The disposition process includes reviewing new site identification forms prior to submittal to the Department of Energy (DOE) and the Agencies.

TAN structures included in this subproject for decommissioning or transfer are listed below.

Control Account	Building/Structure	Use
	TAN-618	Data Collection Building
	TAN-647	Contaminated Storage Building
	TAN-648	Storage Building
SNF Pads and Material	TAN-790	Abnormal Waste Storage Pad
	TAN-791	Spent Fuel Storage Pad
	TAN-1006	Parts storage at TAN-647 and TAN-648 (TSF Area)
	TAN-1007	Cask Storage Area (TSF Area)
	TAN-602	Administration Building
	TAN-604	Misc. Laboratory facility
	TAN-606	Maintenance Building
	TAN-609	Equipment & Maintenance Shop
	TAN-636	Carpenter Shop
TSF D&D&D/VCO	TAN-653	Multi-Craft Shop
	TAN-654	Metal Storage Building
	TAN-667	Small Machine Shop
	TAN-709	Transformer
	TAN-722	1500 KVA Substation
	TAN-776	Transformer Station
	TAN-807	Shielded Locomotive
	TAN-727	Covered Stairway
	TAN-603	Boiler House
	TAN-611	Fuel Pump House
	TAN-670	Chlorination Building
	TAN-778	Water Blow Down Tank
TAN-607 Operational Dependent	TAN-704	Boiler Fuel Tank
	TAN-1735	Emergency Generator
	TAN-711	Sewage Treatment Plant
	TAN-623	Sewage Pump House
	TAN-628	Warehouse
	TAN-695	Hazardous Materials Storage

## SUBPROJECT PLAN

WBS: A.1.02.00.04  
Title: TAN-SP4 TSF/Balance of TAN

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Control Account	Building/Structure	Use
OU 1-10 TAN Comprehensive Remediation	TSF-26	PM-2A tanks contents and contaminated soil, referred to as the PM-2A tanks, tanks 709 and 710, or structure TAN-742
	TSF-06, Area B	TAN/TSF soil area, described as the soil contamination area south of the turntable
	TSF-07	TAN Disposal Pond (monitoring only)
	TSF-03	TSF Burn Pit
	WRRTF-01	WRRTF Burn Pits
	WRRTF-13	Oil and diesel fuel leak (no action)

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### 2. MAJOR PRODUCTS AND DELIVERABLES:

- All pads within the TSF area, not included in SNF D&D&D, are cleared of material.
- RCRA Closures are verified and reports issued.
- Complete characterization and deactivation of the TAN TSF buildings and facilities.
- Complete decommissioning of the TAN TSF buildings and structures.
- Complete disposition of all legacy SNF equipment and debris from the TSF area.
- Complete shipment of all SNF equipment to INTEC.
- Drain all fluid systems in the TAN-603 Boiler area and shutdown systems not required for deactivation of fuel pools or hot and warm shops and TAN-607 South.
- Empty TAN-704 diesel storage tank, if required.
- Final RCRA partial closure plan for the PM-2A tanks.
- New Site Identification Forms are initiated.
- OU 1-10 project execution plan annual update.
- Perform a RCRA closure of one VCO SITE-TANK-005 system, from among the systems characterized during FY 2003.
- Perform Davis Bacon determination.
- The TAN shielded locomotive and railcars are dispositioned.
- Replace roof or other structural components as required for extended periods of time between deactivation and decommission phases of the facility excess cycle.
- Send all empty, existing and unused storage casks to INEEL Transportation, or to another DOE site for reuse or to final disposition.
- Shutdown all utility, HVAC, operational and electrical systems in the TAN-TSF buildings and facilities.
- The PM-2A tank contents are removed and disposed.
- TSF-06 and TSF-26 contaminated soils are removed and disposed and Snake Avenue is replaced.

### 3. ESTIMATE DEVELOPMENT BASIS:

Costs were taken from detailed cost estimates (when available), rough order of magnitude model prepared for D&D&D activities, and professional expertise where subject matter experts provided specific information. See project files for details.

## SUBPROJECT PLAN

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Title: TAN-SP4 TSF/Balance of TAN

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For fuel movement and waste handling activities, subject matter experts used historical fuel movement operational costs to develop the estimate. For equipment movement activities, estimates were developed and reviewed with subject matter experts on packaging and dispositioning materials. For on-going surveillance and maintenance activities, estimates were developed using historical TAN operating costs.

The estimate basis for VCO SITE -TANK-005 characterization and follow-on activities is published in the Voluntary Consent Order Phase 1 and Phase 2 Cost Estimate for FY 2005 to Project End Life-cycle Plan (INEEL/EXT-02-00022), dated April 2002. The basis for the present life-cycle baseline is revised as appropriate to incorporate experience gained since the document was published, and a revised version will be issued.

The cost estimates TAN OU 1-10 Comprehensive Remediation were developed using a combination of experience to date, vendor quotes, discussions with subcontractors and performing organizations, the INEEL Environmental Restoration Program Cost Estimating Handbook, INEEL cost estimating department, the OU 1-10 Remedial Investigation and Feasibility Study (RI/FS), and engineering judgment. Please refer to the cost estimate sheets for more detail on the specific cost estimate basis used for each planning package and schedule activity.

The cost estimates for the WAG 1 Cleanup Support and TAN Area New CERCLA Sites are developed using a combination of experience to date, vendor quotes, discussions with subcontractors and performing organizations, the INEEL Environmental Restoration Program Cost Estimating Handbook, INEEL cost estimating department, the OU 1-10 RI/FS, and engineering judgment. Please refer to the cost estimate sheets for more detail on the specific cost estimate basis used for each planning package and schedule activity.

#### 4. ASSUMPTIONS:

The project key assumptions are divided into planning basis and external milestones. More detailed assumptions are included in the cost estimates and are considered included by reference.

##### **PLANNING BASIS**

- 500 roll-off containers filled with soil from the PM-2A Tanks Remedial Action are transported to the ICDF. The production rate is based on an average cycle time per container of 2-1/2 hours. The INEEL equipment pool has equipment capable of loading, unloading, and transporting the roll-off containers. No funding is included to purchase, rent, or subcontract this equipment.
- A temporary road, while Snake Avenue is torn up, is constructed for TAN needs.
- After completion of the burn pits remedial action in FY 2004, long-term inspection and maintenance activities for the TSF-03 and WRRTF-01 Burn Pits are addressed under INEEL Surveillance, Monitoring, and Long-Term Operations.
- All asphalt from the TSF-06 site is contaminated, and all asphalt is disposed of at the ICDF
- All contaminated material (asphalt, soil, plastic, wood, etc.) is placed in bags, which are thin plastic liners, inside roll-offs.
- All contaminated soil from the PM-2A Tanks Remedial Action are shipped to the ICDF for disposal is transported in roll-off containers. These containers are provided to the project by the ICDF in sufficient quantities, without excessive turnaround time, and at no cost. Funds for placing liners in all containers are included in the estimate.
- All contaminated soil excavated is disposed of at the ICDF.
- All excavation and transport equipment is available on-site.
- All resources planned are available to perform the work when scheduled.
- All site activities are planned using the 4-10 calendar.
- All VCO tanks systems in TAN Completion are characterized, and documentation submitted to DEQ, during FY 2003.

## SUBPROJECT PLAN

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- An allowance is included in the PM-2A Tanks Remedial Action estimate for confirmation sample analysis of the soil during excavation work. Costs for sampling the loads of soil being transported to the ICDF are not included in the estimate.
- An INTEC storage location is secured for SNF equipment shipped from TAN.
- At the completion of the PM-2A Tanks soil excavation, a contamination enclosure is constructed over the tanks. This enclosure remains until the tanks are cut in half, tank contents are removed, tank interior surfaces are decontaminated, and size reduction activities are completed.
- Electrical power and water are available at TAN, close to the remedial action sites, to support the TSF-06/26 Soil and the PM-2A Tank remedial actions.
- For transferring waste to the ICDF, the project purchases roll-offs that can be reused.
- Funding is available in FY 2003 for the completion of all D&D&D activities for TAN-602 Administrative Building, and TAN-609 Equipment and Maintenance Shop. TAN-602 and TAN-609 are not addressed in the FY 2004-2005 Detailed Work Plan and the Life-cycle Baseline.
- No spent nuclear fuel, mixed low-level waste, or low-level waste remains after FY 2005, other than that generated by remediation, deactivation and decommissioning activities, or that contained in the PM-2A tanks.
- Others have removed the top 5 feet of soil above the PM-2A tanks prior to the start of the PM-2A Tanks Remedial Action project. No funding is included to remove, transport, or backfill these soils.
- PM-2A Tanks excavated soils are segregated, stockpiled for reuse as backfill, or loaded into 10 cubic yard roll-off containers for disposal at the ICDF.
- Post-ROD sample data collected from the Burn Pits in FY 2001 is useable for the development of the OU 1-10 Group 3 sites RD/RA work plan.
- Preparation activities for TSF-06 and TSF-26 sampling and excavation are performed jointly, providing efficiencies and cost savings.
- Roll-offs, once delivered to the ICDF Complex, are returned to the project within two working days.
- TAN approves a road outage for Snake Avenue for a six-month period.
- The construction of the new INTEC SNF Storage Pad is completed prior to fuel shipment under an INTEC control account and is ready for fuel receipt by June 1, 2004.
- The PM-2A Tanks Remedial Action includes transporting and staging the loaded roll-off containers at the ICDF. ICDF personnel unload the contents and stage the empty containers for their return trip to TAN at no cost to this project. No funding is included to clean or decontaminate the roll-off containers.
- The shutdown of all TAN utilities, HVAC, operational and electrical systems is coordinated to accomplish the shutdown of the entire TAN-TSF facility and adjacent buildings.
- The TSF-06 and TSF-26 project purchases "burrito bags" for waste destined for the ICDF; these bags are not reusable and can be disposed of directly in the ICDF landfill. For transferring waste to the ICDF, the project purchases roll-offs that can be reused.
- Underground piping and systems remain unless they are part of an identified existing or new CERCLA site or RCRA Closure; however, piping will be isolated near buildings, as appropriate.
- The Central Facilities Area (CFA) and Site Wide Completion Project provides guidance for how five-year reviews are to be conducted and reported for inclusion in the OU 1-10 O&M Plan.
- The TAN Completion Project prepares the first five-year review for the OU 1-10 TAN Comprehensive Remediation.

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- If the first five-year review is successful, the Central Facilities Area (CFA) and Site Wide Completion Project performs all subsequent five year reviews for both the OU 1-107B TAN Groundwater Remediation and the OU 1-10 TAN Comprehensive Remediation

### **EXTERNAL ASSUMPTIONS**

#### **GENERAL**

- All facilities transitioned to NE are not returned to EM for D&D&D.
- All waste generated has a disposition on site.
- Mixed low-level waste created during the deactivation of the TSF has a disposition path.
- Significant re-work or additional characterization is not required to respond to DEQ comments on VCO characterization.
- Soil contamination beneath the concrete floors, if encountered, is turned over to the WAG 1 CERCLA for possible inclusion into the Federal Facility Agreement and Consent Order.
- The ICDF is available in July 2003 to accept all CERCLA waste that meets the ICDF waste acceptance criteria current as of November 2002.

#### **PM-2A TANKS**

- All piping in the PM-2A site boundaries is removed
- At the completion of the PM-2A Tanks backfill activities, the entire site is graded and contoured to match existing surroundings.
- At the completion of the PM-2A Tanks decontamination activities, the top halves of the tanks are further reduced in size, moved, and nested into the still intact bottom halves and left for final disposal.
- Contaminated soil at the PM-2A tank site 10 feet below ground surface is not excavated for disposal; however, any soil that is excavated greater than 10 ft below ground surface is placed back into the excavation after the tanks have been removed and is used as backfill up to 10 feet below ground surface.
- In support of the PM-2A RCRA closure plan, a contingency for one notice of deficiency from IDEQ is scheduled. No time is allotted for a second IDEQ notice of deficiency/comment cycle.
- Independent RCRA closure plans are developed for the three hazardous waste management units of the Intermediate-Level Radioactive Waste Management System (PM-2A Tanks).
- No cost is included in the estimate for treatment of waste in the PM-2A tanks or for any of the soil surrounding the tanks. All material to be disposed of meets ICDF waste acceptance criteria without being stabilized or otherwise treated.
- No costs for radiation shielding are included in the PM-2A Tanks Remedial Action estimate. Radiation levels are low enough that workers' stay time in the construction area is not limited and exposure limits are not exceeded.
- No releases have occurred from the PM-2A Tanks or associated piping, thereby allowing clean closure of the PM-2A Tanks site without removal of contaminated soil beneath the tanks or piping.
- Results from a hazards analysis and the resultant hazard classification screen for the PM-2A tank remedial action result in the identification of potentially releasable hazardous material below 29 CFR 1910.119 or 40 CFR 355 thresholds requiring an ASA and associated HSP for work control for the PM-2A ROD remedial action (i.e., < Category 3 non-nuclear facility, Low Classification). DOE concurs with this screen via HAD approval, and no TAN safety analysis report amendment is required.
- The confirmation field sampling plan prepared for the FFA/CO submittal of the Group 3 RD/RA work plan also serves as the applicable field sampling plan for the RCRA partial closure.

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- The PM-2A tank content waste does not require treatment prior to shipment to the ICDF.

### **SOILS**

- All of the TSF-06 and TSF-26 Soils Remedial Action, with the exception of the Snake Avenue road replacement task, is not work covered by Davis Bacon; the Snake Avenue road replacement task is covered by Davis Bacon.
- Backfill does not need to meet any specifications other than those for the TSF-06 roadbed; road base material is not available within the boundaries of the INEEL.
- Funding is available in FY 2003, FY 2004, and FY 2005 to allow the TSF-06 and TSF-26 soil remedial action to be performed and allow the enforceable milestone of February 2005 for disposal of surface soils generated during the TSF-06 and TSF-26 remedial action to be met.
- The debris located at TSF-26 is disposed of at the ICDF and meets the ICDF waste acceptance criteria.

### **SNF**

- All storage pads at TAN are left in place.
- CUNO® filter disposition is paid for by others (work-for-others program/GPU nuclear).
- CUNO® filters have a disposition path.
- Department of Justice releases control over lead stored in TAN-653.

### **BURN PITS**

- Native low permeable material in enough quantities to install native soil covers at the Burn Pits is available at the INEEL within a 20-mile radius.
- The only contaminant of concern for the Burn Pits is lead, and a native soil cover is the selected remedy.

Activity ID	Activity Description	Early Start	Early Finish	Timeline																				
				FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24
TAN-SP4 TSF/Balance of TAN																								
SNF Pads and Material																								
A.1.02.00.04.01.LC																								
4LN14000	Hydrogen Sampling	01OCT03	07APR05																					
4LNA000	Project Management	01OCT03	10JUL08																					
4LPM117	Contingency Adjustment	01OCT03	30SEP04																					
4LA1001	Deactivate TAN-647	04OCT04	16AUG05																					
4LN1025	V-21 Cask to Trailer Mounting Hardware Design	04OCT04	02DEC04																					
4LN1026	150 Ton Crane and Trailer Rental	04OCT04	29SEP05																					
4LN1125	VSC-17 Cask to Trailer Mounting Hardware	04OCT04	02DEC04																					
4LN1225	MC-10 Cask to Trailer Mounting Hardware	04OCT04	02DEC04																					
4LN1325	TN-24P Cask to Trailer Mounting Hardware	04OCT04	02DEC04																					
4LN1435	REA Cask to Trailer Mounting Hardware Design	04OCT04	02DEC04																					
4LN1535	125B Cask to Trailer Mounting Hardware Design	04OCT04	02DEC04																					
4LN2025	Cask Prep V-21 - Cask Pressure Switch	04OCT04	16MAR05																					
4LN3025	Nuclear Transport Plan (5 Sections)	04OCT04	16MAR05																					
4LN4025	Individual SARs (5 Casks)	04OCT04	16MAR05																					
4LN5025	Cask Movement Procedures (5 procedures)	04OCT04	16MAR05																					
4LN7000	NRF Bridge EDF	04OCT04	13DEC04																					
4LNA100	Mobilization (Incl Crane & Trailer)	04OCT04	03OCT05																					
4LPM127	Contingency Adjustment	04OCT04	29SEP05																					
4LN1050	V-21 Cask to Trailer Mounting Hrdwr Fabricatn	06DEC04	30MAR05																					
4LN1150	VSC-17 Cask to Trailer Mounting Hrdwr	06DEC04	30MAR05																					
4LN1250	MC-10 Cask to Trailer Mounting Hrdwr Fabricatn	06DEC04	30MAR05																					
4LN1350	TN-24P Cask to Trailer Mounting Hrdwr	06DEC04	30MAR05																					
4LN1450	REA 2023Cask to Trailer Mounting Hrdwr	06DEC04	30MAR05																					
4LN1550	125B Cask to Trailer Mounting Hrdwr Fabricctn	06DEC04	30MAR05																					
4LN6050	Readiness Assessment (6 moves)	17MAR05	10MAY05																					
4LC1001	Deactivate TAN-618	11APR05	25JUN07																					
4LN8105	V-21 Planning	11MAY05	18MAY05																					
4LN8115	V-21 Training	19MAY05	19MAY05																					
4LN8125	V-21 Trailer Prep	23MAY05	31MAY05																					
4LN8135	V-21 Load Trailer	01JUN05	01JUN05																					
4LN8145	V-21 Transport	02JUN05	02JUN05																					
4LN8205	VSC-17 Planning	06JUN05	13JUN05																					
4LN8215	VSC-17 Training	14JUN05	14JUN05																					
4LN8225	VSC-17 Trailer Prep	15JUN05	22JUN05																					
4LN8235	VSC-17 Load Trailer	23JUN05	23JUN05																					
4LN8245	VSC-17 Transport	27JUN05	27JUN05																					
4LN8305	MC-10 Planning	28JUN05	06JUL05																					
4LN8315	MC-10 Training	07JUL05	07JUL05																					

Start Date Finish Date Data Date Run Date	01APR03 30SEP25 01OCT03 10APR03 12:58	Early Bar Progress Bar Critical Activity	TN04 Sheet 17 of 21 <b>TAN COMPLETION PROJECT</b> Lifecycle Baseline - Rev 1
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Activity ID	Activity Description	Early Start	Early Finish	Fiscal Year																				
				FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24
4LN8325	MS-10 Trailer Prep	11JUL05	18JUL05																					
4LN8335	MC-10 Load Trailer	19JUL05	19JUL05																					
4LN8345	MC-10 Transport	20JUL05	20JUL05																					
4LN8405	TN-24P Planning	21JUL05	28JUL05																					
4LN8415	TN-24P Training	01AUG05	01AUG05																					
4LN8425	TN-24P Trailer Prep	02AUG05	09AUG05																					
4LN8435	TN-24P Load Trailer	10AUG05	10AUG05																					
4LN8445	TN-24P Transport	11AUG05	11AUG05																					
4LN8505	REA 2023 Planning	15AUG05	22AUG05																					
4LA8000	Decommission & Demolition TAN-647	17AUG05	20MAR06																					
4LN8515	REA 2023 Training	23AUG05	23AUG05																					
4LN8525	REA 2023 Trailer Prep	24AUG05	31AUG05																					
4LN8535	REA 2023 Load Trailer	01SEP05	01SEP05																					
4LN8545	REA 2023 Transport	06SEP05	06SEP05																					
4LN8605	NuPAK 125B Planning	07SEP05	14SEP05																					
4LB1001	Deactivate TAN-648	14SEP05	25APR07																					
4LN8615	NuPAK 125B Training	15SEP05	15SEP05																					
4LN8625	NuPAK 125B Trailer Prep	19SEP05	26SEP05																					
4LN8635	NuPAK 125B Load Trailer	27SEP05	27SEP05																					
4LN8645	NuPAK 125B Transport	28SEP05	28SEP05																					
4LIII2B	SI 4.3 Move Six Casks to INTEC (PBI-III 2b )		29SEP05*																					
4LN0100	Repair Boxes	03OCT05	13OCT05																					
4LN1110	Prepare Shipment 1 of 8	03OCT05	13OCT05																					
4LPM137	Contingency Adjustment	03OCT05	28SEP06																					
4LNB000	PBI-11 1.3 Move Six Casks to INTEC	04OCT05	10JAN06																					
4LNC000	PBI-11 1.3 Move Six Casks to INTEC	04OCT05	10JAN06																					
4LN1120	Ship to INTEC 1 of 8	17OCT05	18OCT05																					
4LN2110	Prepare Shipment 2 of 8	19OCT05	01NOV05																					
4LN2120	Ship to INTEC 2 of 8	02NOV05	03NOV05																					
4LN3110	Prepare Shipment 3 of 8	07NOV05	17NOV05																					
4LN3120	Ship to INTEC 3 of 8	21NOV05	22NOV05																					
4LN4110	Prepare Shipment 4 of 8	23NOV05	07DEC05																					
4LN4120	Ship to INTEC 4 of 8	08DEC05	12DEC05																					
4LN5110	Prepare Shipment 5 of 8	13DEC05	03JAN06																					
4LN5120	Ship to INTEC 5 of 8	04JAN06	05JAN06																					
4LN6110	Prepare Shipment 6of 8	09JAN06	19JAN06																					
4LN6120	Ship to INTEC 6 of 8	23JAN06	24JAN06																					
4LN7110	Prepare Shipment 7 of 8	25JAN06	07FEB06																					
4LN7120	Ship to INTEC 7 of 8	08FEB06	09FEB06																					
4LN8110	Prepare Shipment 8 of 8	13FEB06	23FEB06																					

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 Early Bar  
 Progress Bar  
Critical Activity

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Activity ID	Activity Description	Early Start	Early Finish	Timeline																								
				FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25			
4LPM204	Project Management	04OCT04	11SEP08	[Green Bar]																								
4LPM327	Contingency Adjustment	04OCT04	29SEP05	[Green Bar]																								
4LS1000	Deactivate TAN-603	04OCT04	05JAN06	[Green Bar]																								
4LT1000	Deactivation TAN-611	04OCT04	05JAN06	[Green Bar]																								
4LU1000	Deactivate TAN-695	04OCT04	25JAN06	[Green Bar]																								
4LX1000	Deactivate TAN-704	04OCT04	05JAN06	[Green Bar]																								
4LL7000	Decommission & Demolition TAN-670	05JAN05	04AUG05	[Green Bar]																								
4LPM337	Contingency Adjustment	03OCT05	28SEP06	[Green Bar]																								
4LZ1000	Deactivate TAN-778	03OCT05	08JAN07	[Green Bar]																								
4LS8000	Decommission & Demolition TAN-603	09JAN06	08AUG06	[Green Bar]																								
4LT8000	Decommission & Demolition TAN-611	09JAN06	08AUG06	[Green Bar]																								
4LX8000	Decommission & Demolition TAN-704	09JAN06	08AUG06	[Green Bar]																								
4LU8000	Decommission & Demolition TAN-695	26JAN06	28AUG06	[Green Bar]																								
4L\$8000	Decommission & Demolition TAN-628	05APR06	25AUG08	[Green Bar]																								
4LR1000	Deactivate TAN-1735	09AUG06	06NOV07	[Green Bar]																								
4LZ8000	Decommission & Demolition TAN-778	09JAN07	08AUG07	[Green Bar]																								
4LR8000	Decommission & Demolition TAN-1735	07NOV07	16JUN08	[Green Bar]																								
4L#1000	Deactivate TAN-623	17SEP18	10JUN21	[Green Bar]																								
4L&1000	Deactivate TAN-711	17SEP18	07SEP21	[Green Bar]																								
4LPM304	Project Management	17SEP18	11JUL22	[Green Bar]																								
4LY1000	Deactivate TAN-727	17SEP18	12DEC19	[Green Bar]																								
4LY8000	Decommission & Demolition TAN-727	16DEC19	21JUL20	[Green Bar]																								
4L#8000	Decommission & Demolition TAN-623	14JUN21	28JUN22	[Green Bar]																								
4L&8000	Decommission & Demolition TAN-711	08SEP21	22SEP22	[Green Bar]																								
4L01000	TSF Electrical Isolation	29SEP21	22SEP22	[Green Bar]																								
4L02000	TSF Electrical Isolation	29SEP21	22SEP22	[Green Bar]																								
<b>OU 1-10 TAN Comprehensive Remediation</b>																												
<b>WP-8 Project Management and Support</b>																												
4LPM517	Contingency Adjustment	01OCT03	30SEP04	[Green Bar]																								
4LW1104	FY04 Project Management & Support	01OCT03	30SEP04	[Green Bar]																								
4LPM527	Contingency Adjustment	04OCT04	29SEP05	[Green Bar]																								
4LW1105	FY05 Project Management & Support	04OCT04	29SEP05	[Green Bar]																								
4LPM537	Contingency Adjustment	03OCT05	28SEP06	[Green Bar]																								
<b>WP-4 TSF-06 and TSF-26 Soil Remedial Action</b>																												
4LW2206	TSF -06 Soil Remediation	01OCT03	30JUN04	[Green Bar]																								
4LW2226	TSF -26 Soil Remediation	01OCT03	30JUN04	[Green Bar]																								
4LW2227	Complete Disposal of TSF -06/26Surface Soils		28FEB05*	[Red Diamond]																								
<b>WP-13 Group 3 Sites Remedial Design/Remedial Ac</b>																												
4LW3000	Drft Group 3 RD/RAWP & Suptg Docs	01OCT03	13NOV03	[Green Bar]																								
4LW3001	Group 3 RD/RAWP		13NOV03	[Green Bar]																								
4LW4000	Drft Group 3 RD/RAWP & Suptg Docs	17NOV03	01DEC03	[Green Bar]																								

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[Green Bar] Early Bar  
[Blue Bar] Progress Bar  
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Activity ID	Activity Description	Early Start	Early Finish	Timeline																					
				FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25
4LW5000	Drft Group 3 RD/RAWP & Suptg Docs	02DEC03	15DEC03																						
4LW5025	Drft Group 3 RD/RAWP & Suptg Docs Finalize	16DEC03	24DEC03																						
4LW5026	Issue Final Group 3 RD/RAWP & Suptg Docs		24DEC03																						
4LW4001	Submit Draft Group 3 RD/RAWP to Agencies		30SEP04*																						
<b>PP-7 PM-2A Tanks Remedial Action</b>																									
4LW4100	PM-2A Tanks Remediation	01OCT03	30NOV04																						
4LW4200	PM-2A Tanks Remediation Final Report	01DEC04	28FEB05																						
<b>PP-11 Burn Pits Remedial Action</b>																									
4LW5100	Burns Pit Remediation	01OCT03	30NOV04																						
4LW5200	Burns Pit Remediation Final Report	01DEC04	28FEB05																						
1LPBI5D	SI 4.5 CERCLA Closure @ TAN Complete (PBI		29SEP05*																						
<b>PP-6 OU 1-10 First Five Review</b>																									
4LW6000	OU 1-10 First Five Year Review	04APR05*	12APR05																						
<b>WAG 1 Cleanup Support and TAN Area New CERCLA Si</b>																									
<b>WP-1 WAG 1 PM and Cleanup Support</b>																									
4LW1004	FY04 PM & Cleanup Support	01OCT03	30SEP04																						
4LW1005	FY05 PM & Cleanup Support	04OCT04	29SEP05																						
4LW1006	FY06 PM & Cleanup Support	03OCT05	28SEP06																						
4LW1007	FY07 PM & Cleanup Support	02OCT06	27SEP07																						
<b>PP-2 New Site Disposition and Transfer to WAG 1</b>																									
4LW2004	FY04 New Sites Disposition & Transfer	01OCT03	30SEP04																						
4LW2005	FY05 New Sites Disposition & Transfer	04OCT04	29SEP05																						
4LW2006	FY06+ New Sites Disposition & Transfer	03OCT05	27SEP07																						

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Critical Activity

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**TAN COMPLETION PROJECT**  
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**Subproject 4 - TSF/Balance of TAN**

Subproject Breakout by Control Account

WBS[5]	WBS[6]		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019
<b>A.1.02.00.04 TAN-SP4 TSF/Balance of TAN</b>																		
	<b>BURDENED BASE</b>																	
	A.1.02.00.04.01 SNF Pads and Material	BCWS	188	2,838	1,179	412	180	0	0	0	0	0	0	0	0	0	0	0
	A.1.02.00.04.02 TSF DD&D/VCO	BCWS	5,330	652	762	311	0	0	0	0	0	0	0	0	0	0	0	0
	A.1.02.00.04.03 TAN 607 Operational Dependent	BCWS	3	2,031	1,463	696	636	0	0	0	0	0	0	0	0	0	53	1,326
	A.1.02.00.04.04 OU 1-10 TAN Comprehensive Remediation	BCWS	6,748	1,367	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	A.1.02.00.04.05 WAG 1 Cleanup Support and TAN Area New CERCLA Sites	BCWS	543	543	531	142	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Results Totals:</b>	<b>BCWS</b>	<b>12,812</b>	<b>7,431</b>	<b>3,934</b>	<b>1,562</b>	<b>816</b>	<b>0</b>	<b>53</b>	<b>1,326</b>								
	<b>ESCALATE</b>																	
	A.1.02.00.04.01 SNF Pads and Material	BCWS	6	136	80	38	21	0	0	0	0	0	0	0	0	0	0	0
	A.1.02.00.04.02 TSF DD&D/VCO	BCWS	141	31	54	30	0	0	0	0	0	0	0	0	0	0	0	0
	A.1.02.00.04.03 TAN 607 Operational Dependent	BCWS	0	101	102	66	74	0	0	0	0	0	0	0	0	0	20	535
	A.1.02.00.04.04 OU 1-10 TAN Comprehensive Remediation	BCWS	181	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	A.1.02.00.04.05 WAG 1 Cleanup Support and TAN Area New CERCLA Sites	BCWS	16	28	39	14	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Results Totals:</b>	<b>BCWS</b>	<b>344</b>	<b>360</b>	<b>275</b>	<b>148</b>	<b>95</b>	<b>0</b>	<b>20</b>	<b>535</b>								
	<b>SUMMARY (Base + Escalation)</b>																	
	A.1.02.00.04.01 SNF Pads and Material	BCWS	194	149	82	40	22	0	0	0	0	0	0	0	0	0	0	0
	A.1.02.00.04.02 TSF DD&D/VCO	BCWS	5,471	31	54	30	0	0	0	0	0	0	0	0	0	0	0	0
	A.1.02.00.04.03 TAN 607 Operational Dependent	BCWS	3	101	102	66	74	0	0	0	0	0	0	0	0	0	20	535
	A.1.02.00.04.04 OU 1-10 TAN Comprehensive Remediation	BCWS	6,929	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	A.1.02.00.04.05 WAG 1 Cleanup Support and TAN Area New CERCLA Sites	BCWS	558	28	39	14	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Results Totals:</b>	<b>BCWS</b>	<b>13,156</b>	<b>7,791</b>	<b>4,208</b>	<b>1,709</b>	<b>911</b>	<b>0</b>	<b>73</b>	<b>1,861</b>								

### Subproject 4 - TSF/Balance of TAN

Subproject Breakout by Control Account

WBS[5]	WBS[6]		FY 2020	FY 2021	FY 2022	Cumulative
<b>A.1.02.00.04 TAN-SP4 TSF/Balance of TAN</b>						
<b>BURDENED BASE</b>						
	A.1.02.00.04.01 SNF Pads and Material	BCWS	0	0	0	4,798
	A.1.02.00.04.02 TSF DD&D/VCO	BCWS	0	0	0	7,054
	A.1.02.00.04.03 TAN 607 Operational Dependent	BCWS	1,316	1,296	2,224	11,044
	A.1.02.00.04.04 OU 1-10 TAN Comprehensive Remediation	BCWS	0	0	0	8,115
	A.1.02.00.04.05 WAG 1 Cleanup Support and TAN Area New CERCLA Sites	BCWS	0	0	0	1,759
	<b>Results Totals:</b>	<b>BCWS</b>	<b>1,316</b>	<b>1,296</b>	<b>2,224</b>	<b>32,770</b>
<b>ESCALATE</b>						
	A.1.02.00.04.01 SNF Pads and Material	BCWS	0	0	0	281
	A.1.02.00.04.02 TSF DD&D/VCO	BCWS	0	0	0	256
	A.1.02.00.04.03 TAN 607 Operational Dependent	BCWS	570	601	1,093	3,163
	A.1.02.00.04.04 OU 1-10 TAN Comprehensive Remediation	BCWS	0	0	0	245
	A.1.02.00.04.05 WAG 1 Cleanup Support and TAN Area New CERCLA Sites	BCWS	0	0	0	96
	<b>Results Totals:</b>	<b>BCWS</b>	<b>570</b>	<b>601</b>	<b>1,093</b>	<b>4,040</b>
<b>SUMMARY (Base + Escalation)</b>						
	A.1.02.00.04.01 SNF Pads and Material	BCWS	0	0	0	487
	A.1.02.00.04.02 TSF DD&D/VCO	BCWS	0	0	0	5,586
	A.1.02.00.04.03 TAN 607 Operational Dependent	BCWS	570	601	1,125	3,198
	A.1.02.00.04.04 OU 1-10 TAN Comprehensive Remediation	BCWS	0	0	0	6,994
	A.1.02.00.04.05 WAG 1 Cleanup Support and TAN Area New CERCLA Sites	BCWS	0	0	0	638
	<b>Results Totals:</b>	<b>BCWS</b>	<b>1,886</b>	<b>1,897</b>	<b>3,316</b>	<b>36,810</b>

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<b>A.1.01.00 INTEC Completion</b>		
<b>A.1.01.00.00 INTEC-SP0 Project Support &amp; Facility Authority</b>		
	A.1.01.00.00.01.LC INTEC-SP0 Project Management	HLW-101 HLW-103 SNF-102 SNF-103
	A.1.01.00.00.02.LC INTEC-SP0 Operations	HLW-101 HLW-103 SNF-102 SNF-103 OIM-102
	A.1.01.00.00.03.LC INTEC-SP0 Facility Maintenance	HLW-101 OIM-102
	A.1.01.00.00.04.LC INTEC-SP0 Process Maintenance	ER-08 HLW-101 SNF-102 SNF-103
	A.1.01.00.00.05.LC INTEC-SP0 Technical Services Support	HLW-101 SNF-102 SNF-103
	A.1.01.00.00.06.LC INTEC-SP0 Core Services Support	HLW-101 HLW-103 SNF-102 SNF-103 OIM-102
	A.1.01.00.00.07.LC INTEC-SP0 Capital Projects	HLW-101 HLW-103 SNF-102 SNF-103 OIM-102
	A.1.01.00.00.08.LC INTEC-CP0 Facility Inactivation	OIM-101 SNF-103
	A.1.01.00.00.09.LC INTEC-SP0 DOE-ID FUNDS	HLW-101 SNF-101 SNF-102 SNF-103
<b>A.1.01.00.01 INTEC-SP1 Wet SNF to Dry &amp; SNF Consolidation</b>		
	A.1.01.00.01.01.LC CPP-666 On-Site Receipts	SNF-103
	A.1.01.00.01.02.LC CPP-666 Transferred DOE Fuel	SNF-103
	A.1.01.00.01.03.LC CPP-666 Transferred Navy Fuel	SNF-103
	A.1.01.00.01.04.LC IFSF Receipts	SNF-103
	A.1.01.00.01.05.LC Foreign Reactor Receipts (FRR)	SNF-103
	A.1.01.00.01.06.LC Domestic Receipts & Shipments (DR&S)	SNF-103
	A.1.01.00.01.07.LC PBF Transferred Fuel	SNF-103
	A.1.01.00.01.08.LC CPP-016 VCO	SNF-103
	A.1.01.00.01.09.LC CPP-603 Basin D&D&D	SNF-103
	A.1.01.00.01.10.LC Project Management & Administration	SNF-103
<b>A.1.01.00.02 INTEC-SP2 SNM Consolidation</b>		
	A.1.01.00.02.01.LC INTEC-SP2 Project Management	SNF-102
	A.1.01.00.02.02.LC U-233 & ULWBR Fuel Transfers	SNF-102
	A.1.01.00.02.04.LC Rover Parka Fuel Inventories and Offsite Shipment	SNF-102
	A.1.01.00.02.05.LC Miscellaneous SNM Shipments from CPP-651	SNF-102
	A.1.01.00.02.06.LC CPP-651 Maintained Facilities	SNF-102
<b>A.1.01.00.03 INTEC-SP3 SNF and Calcine Disposition</b>		
	A.1.01.00.03.00.LC SP-3 Project Management	SNF-103
	A.1.01.00.03.01.LC NSNFP Execution & Information Management	SNF-101
	A.1.01.00.03.02.LC INTEC-SP3 SNFDSP M&O Support	SNF-103
	A.1.01.00.03.03.LC INTEC-SP3 SNF Disposition Data	SNF-103
	A.1.01.00.03.04.LC INTEC-SP3 DOE-ID Managed SNF Activities	SNF-102
	A.1.01.00.03.05.LC INTEC-SP3 Treatment of Spent Nuclear Fuel	SNF-102
	A.1.01.00.03.06.LC INTEC-SP3 Technology Direction & Integration	SNF-103
	A.1.01.00.03.07.LC INTEC-SP3 FSV Transferred Fuel	SNF-103
	A.1.01.00.03.08.LC INTEC-SP3 INTEC-749 Fuel Transfers	SNF-103
	A.1.01.00.03.09.LC INTEC-SP3 INTEC-1774 Fuel Transfers to SNFDSP	SNF-103
	A.1.01.00.03.0A.LC INTEC-SP3 SNFDSP Facility Activities	SNF-103
	A.1.01.00.03.0B.LC INTEC-SP3 Repository Analysis	SNF-101
	A.1.01.00.03.0C.LC INTEC-SP3 Transportation & Packaging	SNF-101
	A.1.01.00.03.0D.LC INTEC-SP3 Materials & Technology	SNF-101
	A.1.01.00.03.0E.LC INTEC-SP3 Quality Assurance	SNF-101
	A.1.01.00.03.0F.LC INTEC-SP3 IFSF Transferred Fuel	SNF-103
	A.1.01.00.03.0H.LC SNF Project Management (SNF-102/103)	SNF-103
	A.1.01.00.03.0I.L1 Calcine Disposition Project Management	HLW-103
	A.1.01.00.03.10.L1 RCRA Regulatory Strategy Direct Disposal	HLW-103
	A.1.01.00.03.10.L2 RCRA Regulatory Strategy Alternate Treatment	HLW-103
	A.1.01.00.03.10.L3 NEPA	HLW-103
	A.1.01.00.03.10.L5 RCRA Permitting	HLW-103
	A.1.01.00.03.11.L1 Alternate Treatment	HLW-103
	A.1.01.00.03.11.L2 Remote Characterization	HLW-103
	A.1.01.00.03.12.L1 Retrieval	HLW-103

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	A.1.01.00.03.13.L1 Canister Development	HLW-103
	A.1.01.00.03.13.L3 Modeling- TSPA	HLW-103
	A.1.01.00.03.15.L1 Calcine Engineering Support	HLW-103
	A.1.01.00.03.16.L1 Conceptual Design	HLW-103
	A.1.01.00.03.16.L2 Title I Design	HLW-103
	A.1.01.00.03.16.L3 Title II Design	HLW-103
	A.1.01.00.03.17.L1 Construction	HLW-103
	A.1.01.00.03.17.L2 Facility Acceptance & Turnover	HLW-103
	A.1.01.00.03.18.L1 Retrieval & Packaging	HLW-103
	A.1.01.00.03.18.L2 Shipping	HLW-103
<b>A.1.01.00.04 INTEC-SP4 SBW to WIPP</b>		
	A.1.01.00.04.01.LC SBW Project Management - LC	HLW-102
	A.1.01.00.04.02.LC SBW Engineering & Design - LC	HLW-102
	A.1.01.00.04.03.LC SBW Technology Development - LC	HLW-102
	A.1.01.00.04.04.LC SBW Project Controls - LC	HLW-102
	A.1.01.00.04.07.LC SBW Permitting - ES&H/QA - LC	HLW-102
	A.1.01.00.04.08.LC SBW Construction - LC	HLW-102
	A.1.01.00.04.09.LC SBW Operations - LC	HLW-102
<b>A.1.01.00.05 INTEC-SP5 Integrated Tank Farm Closure</b>		
	A.1.01.00.05.01.L1 OU 3-14 Tank Farm Soils Remediation	ER-103
	A.1.01.00.05.02.L1 Tank Closure Project Management	HLW-105
	A.1.01.00.05.03.L1 Closure of Tanks WM-184 WM-185 & WM-186	HLW-105
	A.1.01.00.05.04.L1 Closure of Tanks WM-103 WM-104 WM-105 & WM-106	HLW-105
	A.1.01.00.05.05.L1 Closure of Tanks WM-180 & WM-181	HLW-105
	A.1.01.00.05.06.L1 Closure of Tanks WM-187 WM-188 WM-189 & WM-190	HLW-105
<b>A.1.01.00.06 INTEC-SP6 Excess Facilities Disposition &amp; D&amp;D</b>		
	A.1.01.00.06.01.L1 VCO SITE-TANK-005 INTEC	VCO-101
	A.1.01.00.06.02.L1 Group 2 CPP-601/602 D&D/CERCLA Remediation	ER-103 ER-109
	A.1.01.00.06.02.L2 Group 2 CPP-604/605/649 D&D/CERCLA Remediation	ER-103 ER-109
	A.1.01.00.06.02.L3 Group 2 CPP-603 D&D/CERCLA Remediation	ER-103 ER-109
	A.1.01.00.06.02.L4 Group 2 Pre-Remediation CERCLA Activities	ER-103 ER-109
	A.1.01.00.06.03.L1 Group 3 Set 1 Sites CERCLA Remediation	ER-103 ER-109
	A.1.01.00.06.03.L2 Group 3 Set 2 Sites CERCLA Remediation	ER-103 ER-109
	A.1.01.00.06.03.L3 Group 3 Set 3 Sites CERCLA Remediation	ER-103 ER-109
	A.1.01.00.06.03.L4 Group 3 Set 4 Sites CERCLA Remediation	ER-103 ER-109
	A.1.01.00.06.03.L5 Group 3 Set 5 Sites CERCLA Remediation	ER-103 ER-109
	A.1.01.00.06.03.L6 Group 3 Set 6 Sites CERCLA Remediation	ER-103 ER-109
	A.1.01.00.06.03.L7 Group 3 CERCLA Documentation and Integration	ER-103 ER-109
	A.1.01.00.06.04.L1 Group 4 Perched Water CERCLA Remediation	ER-103 ER-109
	A.1.01.00.06.04.L5 Group 5 Snake River Plain Aquifer CERCLA Remedy	ER-103 ER-109
	A.1.01.00.06.06.L1 Group 6 Gas Cylinder Sites CERCLA Remediation	ER-103 ER-109
	A.1.01.00.06.07.L1 Group 7 SFE-20 Hot Waste Tank CERCLA Remediation	ER-103 ER-109
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	A.1.01.00.06.09.L1 FSV D&D	SNF-103
	A.1.01.00.06.10.L1 INTEC SP6 Integration & Compliance	ER-103 ER-109
	A.1.01.00.06.DD.L0 D&D Tank Farm Buildings	OIM-110
	A.1.01.00.06.DD.L1 INTEC D&D CPP-601 Area	OIM-110
	A.1.01.00.06.DD.L2 INTEC D&D CPP-637 Area	OIM-110
	A.1.01.00.06.DD.L3 INTEC D&D Coal Fired Boiler Facilities	OIM-110
	A.1.01.00.06.DD.L4 INTEC D&D INTEC Misc. Facilities	OIM-110
	A.1.01.00.06.DD.L5 INTEC D&D Facilities End State	OIM-110
	A.1.01.00.06.DD.L6 INTEC D&D Facilities 2020-32	OIM-110
	A.1.01.00.06.DD.L7 INTEC D&D 2004-20 PMP Compliance	OIM-110
	A.1.01.00.06.DD.L8 INTEC D&D Future Facilities	OIM-110
	A.1.01.00.06.DD.L9 INTEC DD&D Bin Sets	OIM-110
<b>A.1.02.00 TAN Completion</b>		
<b>A.1.02.00.00 TAN-SP0 Project Support &amp; Facility Authority</b>		
	A.1.02.00.00.01 TAN Area Consolidation	New

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	A.1.02.00.00.02 TAN Management and Support	New
	A.1.02.00.00.02.01 VCO Integration & Characterization Documents	VCO-101
	A.1.02.00.00.03 TAN Minimum Safe and Minimum Compliance	SNF-103
<b>A.1.02.00.01 TAN-SP1 TAN 607 Facilities</b>		
	A.1.02.00.01.01 TAN 607 - North Area Structures and Buildings	OIM-111 OIM-110
	A.1.02.00.01.02 TAN 607 - Central Area Structures and Buildings	OIM-110 OIM-111
	A.1.02.00.01.02.01 VCO TAN-031 Demineralized Water System RCRA Closure	VCO-101
	A.1.02.00.01.03 TAN 607 - South Area Structures and Buildings	OIM-111 OIM-110
	A.1.02.00.01.04 TAN 616 - Liquid Waste Treatment System	ER-101
	A.1.02.00.01.04.01 VCO New TAN-008	VCO-101
	A.1.02.00.01.05.01 WP-1 V-Tanks Project Management and Support	ER-101
	A.1.02.00.01.05.03 WP-3 V-Tanks Volume Monitoring and Waste Managemen	ER-101
	A.1.02.00.01.05.04 WP-4 V-Tanks Tech Evaluation and ROD Amendment	ER-101
	A.1.02.00.01.05.05 PP-5 New Group 2 V-Tanks RD/RAWP	ER-101
	A.1.02.00.01.05.06 PP-6 V-Tanks Remedial Action	ER-101
	A.1.02.00.01.05.07 PP-7 OU 1-10 Remedial Action Report	ER-101
	A.1.02.00.01.06.01 PP-1 TSF-46 TAN 616 Soils	ER-101
	A.1.02.00.01.06.02 PP-2 TDSF-47 TAN 615 Sewer Line Soils	ER-101
	A.1.02.00.01.06.03 PP-3 TSF-48 TAN 615 Sump Soils	ER-101
<b>A.1.02.00.02 TAN-SP2 WRRTF Facilities</b>		
	A.1.02.00.02.01 WRRTF Structures and Buildings	OIM-111 OIM-110
<b>A.1.02.00.03 TAN-SP3 LOFT Facilities</b>		
	A.1.02.00.03.01.01 VCO TAN-010 Boiler Fuel Oil System RCRA Closure	VCO-101
	A.1.02.00.03.01.02 VCO TAN-020 HTRE Mercury Contamination Sump System	VCO-101
	A.1.02.00.03.01.03 VCO TAN System Isolations	VCO-101
	A.1.02.00.03.02 LOFT Utility Disconnect and Reconfiguration	New
	A.1.02.00.03.03 LOFT D&D&D	New
<b>A.1.02.00.04 TAN-SP4 TSF/Balance of TAN</b>		
	A.1.02.00.04.01 SNF Pads and Material	New
	A.1.02.00.04.02 TSF DD&D/VCO	OIM-111 OIM-110
	A.1.02.00.04.02.01 VCO Simple System Closure	VCO-101
	A.1.02.00.04.03 TAN 607 Operational Dependent	OIM-111 OIM-110
	A.1.02.00.04.04.01 WP-8 Project Management and Support	ER-101
	A.1.02.00.04.04.02 WP-4 TSF-06 and TSF-26 Soil Remedial Action	ER-101
	A.1.02.00.04.04.03 WP-13 Group 3 Sites Remedial Design/Remedial Actio	ER-101
	A.1.02.00.04.04.04 PP-7 PM-2A Tanks Remedial Action	ER-101
	A.1.02.00.04.04.05 PP-11 Burn Pits Remedial Action	ER-101
	A.1.02.00.04.04.06 PP-6 OU 1-10 First Five Review	ER-101
	A.1.02.00.04.05.01 WP-1 WAG 1 PM and Cleanup Support	ER-101
	A.1.02.00.04.05.02 PP-2 New Site Disposition and Transfer to WAG 10	ER-101
<b>A.1.03.00 Clean/Close RWMC</b>		
<b>A.1.03.00.00 WMF-SP0 Project Support &amp; Facility Authority</b>		
	A.1.03.00.00.01.01 RWMC Project Management	ER-107, WM-108
	A.1.03.00.00.02.01 Project/RWMC Facility Management	WM-103
	A.1.03.00.00.03.01 Environmental Protection & Permitting	WM-103
	A.1.03.00.00.03.02 ES&H Training	WM-103
	A.1.03.00.00.03.03 Quality Assurance	WM-103
	A.1.03.00.00.03.04 Emergency Preparedness	WM-103
	A.1.03.00.00.03.05 Fire Protection	WM-103
	A.1.03.00.00.03.06 Industrial Hygiene	WM-103
	A.1.03.00.00.03.07 Industrial Safety	WM-103
	A.1.03.00.00.03.08 Nuclear Safety	WM-103
	A.1.03.00.00.03.09 Radiation Protections	WM-103
	A.1.03.00.00.03.10 Management and Oversight	WM-103
	A.1.03.00.00.04.01 RWMC SSC Engineering Management	WM-103
	A.1.03.00.00.04.02 RWMC SSC Configuration Management	WM-103
	A.1.03.00.00.04.03 RWMC Building Radiological Instruments	WM-103
	A.1.03.00.00.04.04 RWMC Documents and Records Management	WM-103

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	A.1.03.00.00.06.01 RWMC Capital Equipment	WM-103
	A.1.03.00.00.07.01 AMWTP BBWI Technical Support	WM-105, WM-101
	A.1.03.00.00.07.02 AMWTP DOE-ID Funds (WM-105)	WM-105
	A.1.03.00.00.08.01 RWMC Waste Storage Operations	WM-103
	A.1.03.00.00.08.02 DRCT Waste Disposition	WM-101
	A.1.03.00.00.09.01 RWMC Computer Maintenance and Server Administration	WM-103
	A.1.03.00.00.09.02 RWMC Data Networks and Communications	WM-103
<b>A.1.03.00.01 WMF-SP1 RH-TRU to WIPP</b>		
	A.1.03.00.01.01.01 RH TRU Administration	WM-103
	A.1.03.00.01.01.02 RH TRU Quality Assurance	WM-103
	A.1.03.00.01.01.03 RH TRU Site Project Office	WM-103
	A.1.03.00.01.01.04 RH TRU Training	WM-103
	A.1.03.00.01.01.05 RH TRU System Authorization Basis Modifications & I	WM-103
	A.1.03.00.01.01.06 RH TRU Deactivation and Closeout	WM-103
	A.1.03.00.01.01.07 TRU Technical Support and Integration	WM-103
	A.1.03.00.01.02.01 RH TRU WMF-628 Modifications Capital Asset Project	WM-103
	A.1.03.00.01.02.02 RH TRU WMF-628 Modifications Support and Startup	WM-103
	A.1.03.00.01.02.03 RH TRU Phase I Capital Equipment	WM-103
	A.1.03.00.01.03.01 RH TRU Repackaging Systems Implementation Capital A	WM-103
	A.1.03.00.01.03.02 RH TRU Repackaging Systems Support and Startup	WM-103
	A.1.03.00.01.04.01 RH TRU Waste Retrieval Operations	WM-103
	A.1.03.00.01.05.01 RH TRU Waste Characterizations Systems Development	WM-103
	A.1.03.00.01.05.02 RH TRU Waste Characterization Systems Operations	WM-103
	A.1.03.00.01.06.01 RH TRU Transportatin Systems Development	WM-103
	A.1.03.00.01.06.02 RH TRU Waste Transportation Operations	WM-103
<b>A.1.03.00.02 WMF-SP2 Subsurface Disposal Area</b>		
	A.1.03.00.02.01.01 Remedial Investigation 0 Baseline Risk Assessment (	ER-107
	A.1.03.00.02.01.02 Feasibility Study (FS)	ER-107
	A.1.03.00.02.01.03 Decision-making	ER-107
	A.1.03.00.02.01.04 Pre-Remedial Design Studies	ER-107
	A.1.03.00.02.02.01 In Situ Thermal Desorption (ISTD) Work Plan	ER-107
	A.1.03.00.02.02.02 In Situ Grout (ISG) Work Plan	ER-107
	A.1.03.00.02.02.03 Excavation/Retrieval/Disposal Work Plan	ER-107
	A.1.03.00.02.02.04 Surface Barriers Work Plan	ER-107
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	A.1.03.00.02.03.05 Surveillance Monitoring & Maintenance	ER-107
	A.1.03.00.02.04.01 OU 7-13/14 Management & Administration	ER-107
	A.1.03.00.02.05.01 SDA Infiltration Minimization	ER-107
	A.1.03.00.02.05.02 Contaminant Mobility Reduction	ER-107
<b>A.1.03.00.03 WMF-SP3 OU 7-10</b>		
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	A.1.03.00.03.01.02 GEM Safe Shutdown & D D&D	ER-107
	A.1.03.00.03.01.03 GEM Project Management & Administration	ER-107
	A.1.03.00.03.02.01 Stage III ESH&Q	ER-107
	A.1.03.00.03.02.02 Stage III Design Engineering	ER-107
	A.1.03.00.03.02.03 Stage III Procurement	ER-107
	A.1.03.00.03.02.04 Stage III Construction	ER-107
	A.1.03.00.03.02.05 Stage III Safe Shutdown and D&D	ER-107
	A.1.03.00.03.02.06 Stage III Operations	ER-107
	A.1.03.00.03.02.07 Stage III Project Management & Administration	ER-107
	A.1.03.00.03.03.01 Project Management	ER-107
	A.1.03.00.03.03.02 RWMC Site Administration	ER-107
	A.1.03.00.03.03.03 RWMC Litigation Support	ER-107
<b>A.1.03.00.05 WMF-SP5 Excess Facilities Disposition &amp; D&amp;D</b>		
	A.1.03.00.05.01.01 RWMC Excess Facilities Disposition & D&D	New

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<b>A.1.04.00.00 CLN-SP0 Project Support &amp; Facility Authority</b>		
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	A.1.04.00.00.01.02 WM Program PMB Oversight	WM-108
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	A.1.04.00.01.01.01 Commercial Treatment & Disposal	WM-101
	A.1.04.00.01.02.01 MLLW Characterization	WM-101
	A.1.04.00.01.04.01 MLLW Storage/Maintenance - CPP-1617	WM-101
	A.1.04.00.01.05.01 Disposition of LLW Exceeding One Year	WM-101
	A.1.04.00.01.05.02 Liquid LLW Disposition	WM-101
	A.1.04.00.01.06.01 Project Management	WM-101
	A.1.04.00.01.07.DF Decon Facility Ops	HLW-101
	A.1.04.00.01.07.FL Leached HEPA Filters	HLW-101
	A.1.04.00.01.07.MA Decon Facility Maintenance	HLW-101
	A.1.04.00.01.07.PS Decon Facility Project Support	HLW-101
<b>A.1.04.00.02 TRA-SP1 TRA Completion</b>		
	A.1.04.00.02.AA.01 TRA D&D Activities	OIM-110
	A.1.04.00.02.AA.02 MTR Canal Deactivation Basin Closures	OIM-110
	A.1.04.00.02.AA.03 TRA Reactor Deactivation	OIM-110
	A.1.04.00.02.BB.01 VCO TRA Other	VCO-101
	A.1.04.00.02.BB.02 Sub-Project management	OIM-110
	A.1.04.00.02.CC.01 VCO TRA Tanks	VCO-101
<b>A.1.04.00.04 PBF-SP1 PBF/WERF/WROC Completion</b>		
	A.1.04.00.04.AA.01 Control Area	OIM-110
	A.1.04.00.04.AA.02 Reactor Area	OIM-110
	A.1.04.00.04.AA.03 WERF/WROC/WWSF	OIM-110
	A.1.04.00.04.AA.04 PBF-620 Deactivation Basin Closure	OIM-110
	A.1.04.00.04.AA.05 PBF Reactor Deactivation	OIM-110
	A.1.04.00.04.BB.01 New - PBF - 001	VCO-101
	A.1.04.00.04.CC.01 Remedial Design/Remedial Action	ER-105
	A.1.04.00.04.CC.02 Surveillance and Monitoring	ER-105
	A.1.04.00.04.DD.01 Project Authority	WM-101
	A.1.04.00.04.EE.01 PBF/WERF/WROC	WM-101
<b>A.1.04.00.05 SW-SP1 CFA &amp; Site Wide Completion</b>		
	A.1.04.00.05.01.10 ICDF Project Management	ER-103
	A.1.04.00.05.01.20 ICDF Cell 2 Remecial Design	ER-103
	A.1.04.00.05.01.30 ICDF Cell 2 Remedial Action	ER-103
	A.1.04.00.05.01.40 ICDF Cell 2 Construction	ER-103
	A.1.04.00.05.01.50 ICDF Cell 2 Start-up	ER-103
	A.1.04.00.05.01.70 SSSTF	ER-103
	A.1.04.00.05.02.34 ICDF Cell Closures and Install Cap	ER-103
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	A.1.04.00.05.03.01 ICDF Facility Management	ER-103
	A.1.04.00.05.03.02 ICDF Landfill Operations	ER-103
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	A.1.04.00.05.AA.02 WAG 4 O&M	ER-105
	A.1.04.00.05.AA.03 OU 10-04 Institutional Controls Remedial Action (WA	ER-105
	A.1.04.00.05.AA.04 OU 10-04 TNT/RDX Sites Remedial Design	ER-105
	A.1.04.00.05.AA.05 OU 10-04 TNT/RDX Sites Remedial Action	ER-105
	A.1.04.00.05.AA.06 OU 10-04 STF-02 Gun Range Remedial Design	ER-105
	A.1.04.00.05.AA.07 OU 10-04 STF-20 Gun Range Remedial Action	ER-105
	A.1.04.00.05.AA.08 OU 10-04 UXO Areas Remedial Design	ER-105
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	A.1.04.00.05.AA.11 OU 10-08 RI/FS Scoping/Implementation	ER-105
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<b>A.1.04.01.00 CC-SP1 EM Project Integration</b>		
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	A.1.04.01.00.01.03 EM End State Planning	WM-108
	A.1.04.01.00.01.04 EM Regulatory Integration	WM-108
	A.1.04.01.00.01.05 EM NE Transition Interface	WM-108
	A.1.04.01.00.01.06 EM PMP PjMP and Mid-Level Schedule Integration	WM-108
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	A.1.04.01.01.02.06 Site Wide Reactor NEPA Documentation	OIM-110
	A.1.04.01.01.03.01 VCO Service Team Management and Integration	VCO-101
	A.1.04.01.01.04.01 VCO Site-Tank-005 Integration	VCO-101
<b>A.1.04.01.02 CC-SP3 INEEL Surveillance &amp; Long-term Operations</b>		
	A.1.04.01.02.AA.01 SMLTO Project Management	ER-108
	A.1.04.01.02.AA.02 CERCLA Stakeholder Coordination & PR	ER-108
	A.1.04.01.02.AA.03 LTS Strategic Planning & Integration	ER-108
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	A.1.04.01.02.BB.01 OU 7-13/14 Probing	ER-108
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	A.1.04.01.02.CC.04 WCF Post Closure	HLW-101
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	A.1.04.01.03.02.02 IWTS Software Maintenance Support	WM-101
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	A.1.04.01.03.03.01 Transportation Compliance	WM-101
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	A.1.04.01.03.05.01 CPP-1619 Ops & Maintenance	WM-101
	A.1.04.01.03.06.02 LLW Technical Planning	WM-101
	A.1.04.01.03.06.03 Offsite LLW Disposal Support	WM-101
	A.1.04.01.03.06.04 1 m3 RH-LLW Shipping Cask Procurement	WM-101
	A.1.04.01.03.06.05 RWMC LLW Disposal Pit Closure & Transition	WM-101
	A.1.04.01.03.06.06 Waste Disposal & Landfill Project Management	WM-101
	A.1.04.01.03.07.01 Hazardous Waste Integration	WM-101
	A.1.04.01.03.08.01 SAM Recovery	ER-109
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	A.1.04.01.03.09.01 LLW Vaults	WM-101
	A.1.04.01.03.10.01 Program Management	WM-101
	A.1.04.01.03.10.02 P&C Support (FY04)	WM-108
	A.1.04.01.03.11.01 CH-LLW Offsite Disposal Support	WM-101
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	A.1.04.01.03.12.01 Project Development	WM-101
	A.1.04.01.03.12.02 Title I and Title II Design	WM-101
	A.1.04.01.03.12.03 Facility Construction	WM-101
	A.1.04.01.03.13.01 Ambient Air	WM-106
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	A.1.04.01.03.17.01 MLLW Integration	WM-101
	A.1.04.01.03.19.01 Lead Disposition	HLW-101
	A.1.04.01.03.20.FL Leached HEPA Filters	HLW-101
	A.1.04.01.03.21.01 MLLW with No Path to Disposal	WM-101