INEEL/EXT-03-00120R1

Idaho Completion Project

ICP

Idaho Nuclear Technology and Engineering Center Completion

Life-Cycle Baseline

WBS-A.1.01

INTEC Completion

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INTEC Completion Project Plan

Objective

The Idaho Nuclear Technology and Engineering Center (INTEC) (formerly the Idaho Chemical Processing Plant [CPP]) is located about three miles north of the Central Facilities Area. The plant is situated on about 210 acres that lie within the perimeter fence. An additional 55 acres of the plant area lie outside the fence.

There are 139 buildings, 10 temporary buildings, 7 trailers, and 120 structures in the plant area. The types of buildings include administrative, maintenance, process, storage, laboratory, and special use and comprise 1,142,478 square feet. The condition of the buildings and structures generally corresponds to their age. The average age of the buildings and structures is 18 years.

The INTEC Completion Project consists of all the Environmental Management (EM)-related work within the confines of the INTEC perimeter fence, and the plant area outside the fence, except for the Idaho National Engineering and Environmental Laboratory (INEEL) Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Disposal Facility (ICDF). The ICDF is presently being constructed outside the southwest border of the INTEC.

The seven INTEC Completion Project subprojects are described below. These seven projects comprise all the work needed to accomplish the EM cleanup mission at INTEC, with the exception of long term monitoring and surveillance, which will be managed under a separate project, Long-Term Stewardship. No other secretarial office has expressed interest in the facilities at the INTEC, so the long-range plan for the INTEC is cleanup and disposition.

Project Support & Facility Authority (INTEC-SP0)

The scope of subproject INTEC-SP0 – Project Support and Facility Authority is the project management of all the other subprojects in the INTEC Completion Project, including all the planning, scheduling, budgeting and reporting of project activities. The project scope also includes the operation of all support facilities needed for the rest of the subprojects. This includes operation and maintenance of all utilities, operation and maintenance of the process waste system, operation and maintenance of the process support laboratories, operation and maintenance of existing process facilities, maintenance of office buildings, the cafeteria, and security. Major plant, facility and equipment upgrade projects are included within the scope of this subproject.

In addition to maintaining the support facilities, this subproject will include the activities necessary to put these facilities out of service when their mission is no longer needed. These activities will include removing any residual hazardous or radioactive waste, and placing the facility in a cold, dark, and dry condition. Surveillance and maintenance of the facility while awaiting demolition, and demolishing the building is in INTEC-SP6.

Wet SNF to Dry and SNF Consolidation (INTEC-SP1)

The scope of this subproject is to transfer all spent nuclear fuel (SNF) stored in the pools at CPP-666 to treatment and disposition or to interim dry storage, remove the water and sludges (if any) from the CPP-666 and CPP-603 basins, complete the planned foreign research reactor and domestic research reactor receipts and transfers at Irradiated Fuel Storage Facility (IFSF), and complete the consolidation of Department of Energy (DOE)-owned SNF at the INEEL in preparation for transfer to the Spent Nuclear Fuel Dry Storage Project (SNFDSP) for repackaging and disposition to the repository.

The SNF that is stored in the CPP-666 underwater storage pools will be transferred to the CPP-603 IFSF for interim dry storage, to Argonne National Laboratory–West (ANL-W) for treatment and disposition of sodium-bonded SNF, and to the Naval Reactors Facility (NRF) for interim dry storage. The SNF stored in CPP-749 and IFSF will be consolidated for shipment in campaigns of like fuel types for future shipment to the SNFDSP.

The water in the basins of CPP-666 and CPP-603 will be removed and dispositioned. Also, the water treatment systems at CPP-603 are subject to Voluntary Consent Order (VCO) hazard assessments and follow on actions as needed, VES-SF-106 is subject to Resource Conservation and Recovery Act (RCRA)

closure, and VES-SFE-20 is subject to CERCLA remedial action.

SNM Consolidation (INTEC-SP2)

The scope of this subproject is to package all EM-owned special nuclear material (SNM) at the INEEL and ship it off site. The SNM consists of a variety of unirradiated fuel, fuel pieces, sources, standards, as well as the denitrator product (U-233/U-235) that resulted from the INTEC's former fuel reprocessing mission. Both Test Reactor Area (TRA) and Radioactive Waste Management Complex (RWMC) have some SNM that will be moved to INTEC for interim storage until dispositioned offsite. The storage facilities at INTEC are CPP-651, CPP-603 Irradiated Fuel Storage Facility, and CPP-749. Completion of this project will be when all SNM is transported out of Idaho.

SNF and Calcine Disposition (INTEC-SP3)

The scope of this subproject is to disposition the SNF and the calcine located at INTEC. The SNFDSP will be an Nuclear Regulatory Commission (NRC)-licensed repackaging and short-term storage complex built and operated by Foster Wheeler Environmental Corporation, through a privatized contract with DOE-ID.

All SNF at the INEEL that must be repackaged into standard canisters for acceptance at the repository will be brought to this complex for repackaging in accordance with the Yucca Mountain Monitored Geologic Repository acceptance requirements and interim storage until transported to the repository. The fuel will be shipped from the SNFDSP to the Monitored Geologic Repository from 2011 through 2030. A transportation cask loadout and handling facility located on a rail siding will be constructed at INTEC under this subproject to load the transportation casks and railcars used for shipment to the repository.

SNF needing treatment will be sent to appropriate facilities for treatment prior to disposition. The Fermi Blanket sodium-bonded SNF treatment at ANL-W will be covered under a supplement to the existing electro-metallurgical treatment Environmental Impact Statement/Record of Decision. The INEEL EM Program will be responsible for the transportation of the SNF to ANL-W, the costs of the treatment of the SNF, and disposition of the SNF upon completion of treatment.

The calcine disposition project will conduct feasibility studies on the aspects of retrieving the calcine from the bin sets at the Calcine Solid Storage Facility, stabilizing the calcine, determining the canister for the calcine and packaging the calcine. Based on the feasibility studies, a facility will be built to retrieve, stabilize, package and ship the calcine. The packaged calcine will be shipped to the Monitored Geologic Repository.

Sodium-Bearing Waste to WIPP (INTEC-SP4)

The scope of this subproject is to treat the sodium bearing waste (SBW) stored in the INTEC tank farm. After a treatment technology is selected, a SBW treatment facility will be designed and built. The SBW in the tank farm will be transported to the SBW treatment facility for treatment. The treated waste will then be packaged and transported to the Waste Isolation Pilot Plant (WIPP) for burial as transuranic waste. Depending on the treatment selected, a high activity portion may be sent to the Monitored Geologic Repository. Project completion will be when all the SBW has been shipped to WIPP and the facility is closed in a cold, dark, and dry state.

Integrated Tank Farm Closure (INTEC-SP5)

The scope of this subproject is to empty and close the tanks in the INTEC tank farm and to remediate the tank farm soils. The INTEC tank farm consists of eleven 300,000-gallon stainless steel tanks in concrete vaults, four 30,000-gallon stainless steel tanks buried in the soil, and all associated piping and ancillary equipment. The four smaller tanks are subject to the VCO. The eleven large tanks are subject to the Settlement Agreement.

At the tank farm, seven of the 300,000-gallon tanks have been emptied to residual level, with cleaning and closure activities having been initiated in two of these tanks. As Newly Generated Liquid Waste (NGLW) is generated from continued process operations and decontamination activity, it will be processed through the Evaporator Tank System and stored in the tank farm for future treatment. The

existing tank farm inventory will be transferred to the SBW treatment facility and dispositioned off-site. Treatment of the NGLW is being evaluated. After 2005, NGLW will no longer be added to the tank farm.

Tank residuals that remain in emptied tanks will be removed as much as possible and treated. Each tank will have any remaining residual stabilized, grouted, and the soils surrounding the tank vaults will be remediated as needed. Soils remediation activities will be integrated throughout the term of the subproject.

Excess Facilities Disposition and Deactivation, Decontamination, and Decommissioning (INTEC-SP6)

The scope of this subproject is to disposition, decontaminate and demolish the remaining INTEC facilities. Surveillance and Maintenance following facility closures into a cold, dark and dry state and prior to deactivation, decontamination, and decommissioning is included here. Also included are a number of SITE-TANK-005 VCO items in this subproject, as well as Waste Area Group 3 remedial actions.

PBS Work Statement for FY 2004 to Project End

INTEC-SP0 END STATE DESCRIPTION

INTEC landlord facilities operated and maintained efficiently, assigned facilities in cold, dark, dry state, applicable RCRA closures completed. Active EM footprint at INTEC reduced to minimum number of facilities. Liquid waste generation to the Tank Farm is minimized in existing available capacity and is diverted from Tank Farm by 2005. Facility Authorization support efforts scale down as the Subprojects supported decrease and complete in 2035.

INTEC-SP1 END STATE DESCRIPTION

Completion of this subproject will be when the SNF is transferred to its final INEEL destination for treatment or repackaging, the water is removed from the basins at CPP-603 and CPP-666, all facilities are placed in a “cold, dark, and dry” state, and all VCO, RCRA Closure, and CERCLA remedial actions are complete. These efforts are complete in 2027.

INTEC-SP2 END STATE DESCRIPTION

All INEEL EM-owned SNM has been transferred out of Idaho to other sites and/or programs, CPP-651 is placed in a “cold, dark, and dry” state by 2009 or removed from EM active footprint. All efforts complete by 2010.

INTEC-SP3 END STATE DESCRIPTION

Prior to 2012 the Calcine Environmental Impact Statement/Record of Decision and conceptual design completed for calcine disposition, repository approval completed for disposal of Calcine, complete the approval of SNF to the repository, package approximately 200 standard canisters of SNF for repository shipments, transfer Fermi blanket sodium-bonded SNF to treatment prior to disposition to the repository. Post-2012 scope is the construction, operations, and shipments of calcine to the repository, completion of packaging of the remaining SNF into standard canisters and transfer of the SNF to the repository. Closure of SNF and Calcine facilities will follow completion of the shipments. These efforts complete by 2030.

INTEC-SP4 END STATE DESCRIPTION

SBW and Tank Residuals are treated and shipped to WIPP; NGLW contained in storage and generated through 2012 is treated and disposed. Facility is cleaned out and removed from service. These efforts complete by Dec. 2012.

INTEC-SP5 END STATE DESCRIPTION

Tank Farm residuals are removed to levels agreed upon in closure plan, tank closure and tank farm system is closed, and tank farm soils are remedied and monitoring requirements implemented. These efforts complete by 2012.

INTEC-SP6 END STATE DESCRIPTION

Final INTEC Facility cleanup and deactivation, decontamination, and decommissioning is completed. First phase by 2020, second phase by 2035.

Project Key Assumptions

The following list of assumptions is not all inclusive. This list represents those identified external assumptions requiring input from outside influences that are critical to the success of the INTEC Completion Project.

SP0; Project Support and Facility Authority

- Consolidated lab is not part of Project Management Plan (PMP) and therefore not to be planned in Life-Cycle Baseline.
- DOE-owned SNF from the INEEL will be sent to the Yucca Mountain Monitored Geologic Repository beginning in FY 2010.
- NRC regulations for the Fort St. Vrain and CPP-1774 TMI-2 Independent Spent Fuel Storage Installations will not change significantly, and the annual licensing fees will remain approximately the same as charged in FY 2002.
- The privatized SNFDSP will commence operations in December 2005 with routine transfers of SNF from IFSF and CPP-749.
- The SNFDSP will be turned over to the Management and Operations for its use and operation on April 10, 2010.
- The Navy SNF stored in CPP-666 will be returned to NRF during the period of FY 2007 through FY 2012.
- The base Criticality Safety Program will be included in INTEC-SP0.

SP1; SNF Wet to Dry and Basin Closure

- The Idaho Settlement Agreement milestone to complete the removal of all SNF from wet storage and into dry storage by December 31, 2023, will not be revised or renegotiated.
- The DOE Environmental Impact Statement/Record of Decision will be followed as they presently exist except that the Programmatic SNF Management and INEEL Environmental Restoration and Waste Management Programs Environmental Impact Statement/Record of Decision published in the Federal Register on June 1, 1995, will be modified to eliminate the transfer of aluminum clad SNF from the INEEL to Savannah River Site, and the transfer of non-aluminum clad SNF from Savannah River Site to the INEEL. These SNF types will be dispositioned to the Yucca Mountain Monitored Geologic Repository directly from the sites where they are presently stored.
- Each of the SNF storage facilities will be maintained in accordance with its approved authorization agreement as applicable.
- Advanced Test Reactor aluminum-clad SNF will be transferred from TRA to CPP-666 in FY 2004 and FY 2005 only. Beginning in FY 2006 it will be transferred directly to IFSF as the responsibility of DOE Office of Nuclear Energy, Science, and Technology (NE).
- ANL-W will be responsible for the receipt, treatment, and disposition of the Experimental Breeder Reactor-II (EBR-II) sodium-bonded SNF presently stored in CPP-666.
- The Office of Civilian Radioactive Waste Management (RW) will assume responsibility for all domestic fuel receipts and shipments beginning in 2028, and no receipts at IFSF will occur after 2027.

SP2; Special Nuclear Material Consolidation

- SNM Security and safeguards labor for inventories and other entries is funded under the Safeguards and Security budgets.
- The offsite receiving sites will have facilities available for receipt and storage that meet the INEEL planned shipping schedules.
- Safe, secure transport vehicles will be made available to the INEEL for shipments as scheduled.

SP3; SNF & Calcine Disposition

- Certification, packaging and preparation of SNF to Yucca is included in Life-Cycle Baseline. First shipment in 2010. No transportation costs to be included.
- National SNF Program will not transfer to RW in FY 2004 and therefore is included in the Life-Cycle Baseline.
- Calcine will be sent to the repository to meet 2035 date.
- Calcine will be packaged in standard canisters with some stabilization to support transportation.
- Disposition of the Fermi blanket SNF was not decided in the Record of Decision. For Life-Cycle Baseline purposes, it is assumed that it will be treated at ANL-W with the electro-metallurgical treatment process as part of SP3. Environmental Management is responsible for treatment costs but none of the ANL-W "hotel load."
- The Advanced Test Reactor Program will continue to ship SNF to INTEC through FY 2010. It will be received at the CPP-666 facility through FY 2005, and then at the IFSF through FY 2010. After FY 2010, the Advanced Test Reactor Program will be responsible for shipment of the SNF directly to the repository.
- The federal repository will begin receiving SNF from the INEEL in FY 2010 and calcine in FY 2020. The shipment schedule currently presented in the DOE RW Waste Acceptance System Requirements Document will not be used until formal approval and direction are given.
- The SNFDSP will begin startup under Foster Wheeler and the INEEL SNF Program will be ready to ship SNF to Foster Wheeler by December 2005.
- The initial complement of SNF assigned to Foster Wheeler for packaging and placement into interim storage will be completed by April 1, 2010. SP3 will design and implement the transportation system in conjunction with RW and various SNF and high-level waste programs at each DOE site. RW will retain responsibility for transportation of SNF and high-level waste.
- Calcine will be shipped "just in time" to Yucca Mountain Project with minimal lag storage. Shipping occurs from 2020 through 2030.
- Shipping and disposal costs for calcine are born by the office of Radioactive Waste.

SP4; SBW to WIPP

- All Critical Decisions (CDs) will be approved within one month after submittal.
- DOE will give Bechtel BWXT Idaho, LLC (BBWI) authorization to start Architectural Engineering services selection activities nine months prior to preliminary and/or Final Design.
- The Architectural Engineering firm will specify and procure all critical equipment and materials.
- The State of Idaho Department of Environmental Quality will approve the RCRA and Air permits within eighteen months after submittal.
- The DOE Readiness Review, Final Documented Safety Analysis, Operational Readiness Review and approval for start-up will be completed within seven months after mechanical completion of construction.

- The Waste Incidental to Reprocessing (WIR) Determination will allow the SBW (liquids and solids) to be managed/disposed as transuranic waste.
- The WIR will be determined two months prior to CD-1 approval and will allow the Calciner treatment alternative to ship the waste to WIPP.
- Completed waste packages will not be sampled for compliance with the Waste Isolation Pilot Plant (WIPP) Waste Acceptance Criteria (head-space sampling will therefore, not be required).
- Partial CD-3 (CD-1/3) Approval to Purchase Critical Equipment and Material will be given one month after CD-1 Submittal.
- Partial CD-3 (CD-2/3) Approval to Start Field Work will be granted at approximately 40% of Title II (Final) Design.
- The calcine waste form and its package will be qualified to meet WIPP waste acceptance criteria.
- CD-1 will select a single technology alternative.
- Preliminary and Final Design will be performed by the same Architectural Engineering firm under the contractual and technical direction of BBWI.
- The Architectural Engineer will transfer equipment they have purchased to the construction subcontractors and will ensure proper installation and start-up of this equipment.
- The RCRA permit will be developed during the conceptual design phase and will be modified no more than one time during the Final Design phase.
- NRC regulations do not apply to the SBW Treatment Project.
- Toxic Substances Control Act regulations do not apply to the SBW Treatment Project.
- The Environmental Impact Statement/Record of Decision will be issued prior to CD-1 and will allow operation of the Calciner (after required upgrades to meet RCRA and air maximum achievable control technology standards) and disposal of the SBW as transuranic waste.
- WIPP will have the capabilities and permits to handle the levels of radiation doses from the SBW Calcine packages both with regards to remote operations, as well as capacity for disposal.
- All SBW material processed between start of operations and WIPP approval to ship SBW material will meet WIPP standards and will not require additional testing or certification.
- WIPP can accept the SBW shipments at a rate to meet or exceed the scheduled completion date of Dec. 2012.

<u>SP5; Integrated Tank Farm Closure</u>

- The WIR determination will be approved to leave SBW residuals in place. The lawsuit will not impact WIR approvals nor our current schedule.
- The EIS will be completed and the Record of Decision issued before March 1, 2003.

<u>SP6; Excess Facilities Disposition and Deactivation, Decontamination, and Decommissioning</u>

- The Operability Unit (OU) 3-13 Group 2 and Group 3 Remedial Design/Remedial Action work plans will address the final INTEC end state and be within the Remedial Action Objectives of the OU 3-13 Record of Decision. Therefore, an additional Record of Decision will not be required (exclusive of the OU 3-14 Record of Decision which deals with the Tank Farm).
- RCRA and CERCLA regulatory agencies never integrate.
- The OU 3-13 Group 2 sites are not considered active remediation under the PMP and will not be completed by 2020.
- The OU 3-13 Group 2 remedial action is not a DOE O 413.3 project.

- The OU 3-13 Group 3 remedial action is not a DOE O 413.3 project.
- The commitments in the Environmental Management Performance Management Plan for Accelerating Cleanup of the Idaho National Engineering and Environmental Laboratory will be met. Namely, continuation of remediation at INTEC will enable disposal of existing CERCLA stored waste and allow efficient INEEL CERCLA Disposal Facility operations.
- The INTEC will continue to be an operating facility to at least 2035.
- No change in the current land use will occur at INTEC throughout the institutional control period (i.e., 2095).
- There will be no significant changes to the remediation goals established in the Record of Decision or changes in the Baseline Risk Assessment, which would change site management, inspection, and facility integration requirements.
- The contaminated piping outside of the buildings and structures will be flushed to remove the majority of the contaminants and then grouted in place. No attempt will be made to remove the contaminated piping outside of the buildings and structures.
- The buildings with contamination left in place and grouted in place include CPP-601, -602, -603, -604, -605, -627, -633, -640, -649, and -659.
- The stainless steel calcine bin sets will be placed in an on-site landfill located in the vicinity of the Tank Farm and included under the final INTEC cap. The debris waste will meet the on-site disposal requirements based upon the WIR determination, RCRA closure plan, and the OU 3-13 CERCLA Record of Decision.

Science and Technology Needs

Technology needs are identified in the technical scope statements above. These technology needs are coordinated with the technology lead lab for identification and development of a solution.

IDAHO COMPLETION PROJECT WORK BREAKDOWN STRUCTURE INDEX

WBS#	Title	Responsible Individual
A.1	EM Project	S. Stiger
A.1.01	INTEC Completion PBS A	R. Loos
A.1.01.00	INTEC Completion PBS A	
A.1.01.00.00	**INTEC-SP0 Project Support & Facility Authority**	**J. Simonds**
A.1.01.00.00.01	INTEC-SP0 Project Management	
A.1.01.00.00.02	INTEC-SP0 Operations	
A.1.01.00.00.03	INTEC-SP0 Facility Maintenance	
A.1.01.00.00.04	INTEC-SP0 Process Maintenance	
A.1.01.00.00.05	INTEC-SP0 Technical Services Support	
A.1.01.00.00.06	INTEC-SP0 Core Services Support	
A.1.01.00.00.07	INTEC-SP0 Capital Projects	
A.1.01.00.00.08	INTEC-SP0 Facility Inactivation	
A.1.01.00.00.09	INTEC-SP0 DOE-ID Funds	
A.1.01.00.01	**INTEC-SP1 Wet SNF to Dry & SNF Consolidation**	**J. Collins**
A.1.01.00.01.01	INTEC-666 On-Site SNF Receipts	
A.1.01.00.01.02	INTEC-666 Transferred DOE Fuel	
A.1.01.00.01.03	INTEC-666 Transferred Navy Fuel	
A.1.01.00.01.04	IFSF Receipts	
A.1.01.00.01.05	Foreign Research Reactor Receipts	
A.1.01.00.01.06	Domestic SNF Receipts & Shipments	
A.1.01.00.01.07	PBF Transferred Fuel	
A.1.01.00.01.08	INTEC-016 VCO	
A.1.01.00.01.09	INTEC-603 Basin D&D&D	
A.1.01.00.01.10	Pool Deactivation	
A.1.01.00.01.11	Project Management & Administration	
A.1.01.00.02	**INTEC-SP2 SNM Consolidation**	**D. Burns**
A.1.01.00.02.01	INTEC-SP2 Project Management	
A.1.01.00.02.02	U-233 & ULWBR Fuel Transfers	
A.1.01.00.02.03	CPP-651 Highly Enriched Uranium Support	
A.1.01.00.02.04	Rover/PARKA Fuel Inventories and Offsite Shipment	
A.1.01.00.02.05	Miscellaneous SNM Shipments from CPP-651	
A.1.01.00.02.06	CPP-651 Maintained Facilities	

A.1.01.00.03	**INTEC-SP3 SNF and Calcine Disposition**	**J. Pruitt**
A.1.01.00.03	SP3 Project Management	
A.1.01.00.03.01	Nuclear Materials Engineering & Disposition P.M.	
A.1.01.00.03.02	INTEC-SP3 SNFDSP M&O Support	
A.1.01.00.03.03	INTEC-SP3 SNF Disposition Data	
A.1.01.00.03.04	INTEC-SP3 DOE-ID Managed SNF Activities	
A.1.01.00.03.05	INTEC-SP3 Treatment of Spent Nuclear Fuel	
A.1.01.00.03.06	INTEC-SP3 Technology Direction & Integration	
A.1.01.00.03.07	INTEC-SP3 FSV Transferred Fuel	
A.1.01.00.03.08	INTEC-SP3 CPP-749 Fuel Transfers	
A.1.01.00.03.09	INTEC-SP3 CPP-1774 Fuel Transfers to SNFDSP	
A.1.01.00.03.0A	INTEC-SP3 SNFDSP Facility Activities	
A.1.01.00.03.0B	INTEC-SP3 Repository Analysis	
A.1.01.00.03.0C	INTEC-SP3 Transportation & Packaging	
A.1.01.00.03.0D	INTEC-SP3 Materials & Technology	
A.1.01.00.03.0E	INTEC-SP3 Quality Assurance	
A.1.01.00.03.0F	INTEC-SP3 IFSF Transferred Fuel	
A.1.01.00.03.0H	SNF Project Management (SNF-102/103)	
A.1.01.00.03.0I	Calcine Disposition Project Management	
A.1.01.00.03.10	Regulatory	
A.1.01.00.03.11	Pre-Conceptual Design Studies	
A.1.01.00.03.12	Retrieval	
A.1.01.00.03.13	Yucca Mountain Waste Acceptance	
A.1.01.00.03.14	Calcine Project Management	
A.1.01.00.03.15	Calcine Engineering Support	
A.1.01.00.03.16	Design	
A.1.01.00.03.17	Construction	
A.1.01.00.03.18	Operations-Retrieval-Packaging-Shipping-Closure	
A.1.01.00.04	**INTEC-SP4 SBW to WIPP**	**G. Milnarich**
A.1.01.00.04.01	SBW Project Management	
A.1.01.00.04.02	SBW Engineering & Design	
A.1.01.00.04.03	SBW Technology Development	
A.1.01.00.04.04	SBW Project Controls	
A.1.01.00.04.05	SBW Project Administration	
A.1.01.00.04.06	SBW Procurement	
A.1.01.00.04.07	SBW Permitting - ES&H\QA	
A.1.01.00.04.08	SBW Construction	

A.1.01.00.04.09	SBW Operations	
A.1.01.00.05	**INTEC-SP5 Integrated Tank Farm Closure**	**D. Croson**
A.1.01.00.05.01	OU 3-14 Tank Farm Soils Remediation	
A.1.01.00.05.02	Tank Closure Project Management	
A.1.01.00.05.03	Closure of Tanks WM-184, WM-185, & WM-186	
A.1.01.00.05.04	Closure of Tanks WM-103, WM-104, WM-105, & WM-106	
A.1.01.00.05.05	Closure of Tanks WM-180 & WM-181	
A.1.01.00.05.06	Closure of Tanks WM-187, WM-188, WM-189, & WM-190	
A.1.01.00.05.07	Tank Closure Corrosion Coupon Evaluations	
A.1.01.00.06	**INTEC-SP6 Excess Facilities Disposition & D&D**	**D. Kuhns**
A.1.01.00.06.01	VCO SITE-TANK-005 INTEC	
A.1.01.00.06.02	INTEC CERCLA Remediation of Soils Under Buildings	
A.1.01.00.06.03	INTEC CERCLA Remediation of Other Surface Soils	
A.1.01.00.06.04	INTEC CERCLA Groundwater Remediation	
A.1.01.00.06.06	INTEC CERCLA Remediation of Gas Cylinder Sites	
A.1.01.00.06.07	INTEC CERCLA Remediation of SFE-20 Hot Waste Tank	
A.1.01.00.06.08	INTEC Monitoring	
A.1.01.00.06.09	FSV D&D	
A.1.01.00.06.10	INTEC SP6 Project Integration & Compliance	
A.1.01.00.06.DD	INTEC D&D	

INTEC Completion

MILESTONE LOG

WBS Element	Milestone Number	Description	Planned Date	Enforceable Date	Level
A.1.01.00.00.01.LC	0LS11000	DOE-ID Iss Projectd Recpt Rept to State (annual)	DEC-2003		E1
A.1.01.00.00.01.LC	0LS11001	DOE-ID Iss Actual Recpt Rept to State (annual)	JAN-2004		E1
A.1.01.00.00.01.LC	0LS12204	SNF Program Complete	SEP-2030		E2
A.1.01.00.00.04.LC	0LS49035	CPP-1774 NRC Lic application renewal submitted	SEP-2017		E2
A.1.01.00.00.05.LC	0LS40029	NRC FSV Lic renewal cplt & application submitted	SEP-2009		E2
A.1.01.00.00.08.LC	0LST015	Turnover CPP-666 to D&D	SEP-2013		E2
A.1.01.00.00.08.LC	0LST016	Turnover CPP-2707 to D&D	SEP-2018		E2
A.1.01.00.00.08.LC	0LS42012	CPP-749 D&D transition preps & turnover cplt	SEP-2020		E2
A.1.01.00.00.08.LC	0LS47009	Turnover IFSF to D&D	OCT-2023		E2
A.1.01.00.00.08.LC	0LS48008	Turnover CPP 1774 to D&D	SEP-2029		E2
A.1.01.00.00.08.LC	0LST017	Turnover FSV to D&D	SEP-2023		E2
A.1.01.00.01.01.LC	1LS27507	Dur FY04 Cplt 14 ATR receipts at CPP-666	SEP-2004		E2
A.1.01.00.01.01.LC	1LS29006	Receipt/store ATR fuels in ATR cask complete	SEP-2005		E2
A.1.01.00.01.01.LC	1LS29008	Establ. End date w/NE to discontinue ATR receipts	SEP-2005	SEP-2005	E4
A.1.01.00.01.02.LC	1LS27123	FERMI Fuel-Transfers Complete	MAR-2006		I2
A.1.01.00.01.02.LC	1LS27143	TRIGA Fuel-Transfers Complete	SEP-2007		I2
A.1.01.00.01.02.LC	1LS27133	Borax V/Pathfinder Fuel-Transfers Complete	SEP-2009		I2
A.1.01.00.01.02.LC	1LS27113	Aluminum Fuel-Transfers Complete	SEP-2009		I2
A.1.01.00.01.02.LC	1LS27153	AI/SNAP Fuel-Transfers Complete	DEC-2009		I2

WBS Element	Milestone Number	Description	Planned Date	Enforceable Date	Level
A.1.01.00.01.02.LC	1LS27163	TORY-IIA Fuel-Transfers Complete	SEP-2010		I2
A.1.01.00.01.02.LC	1LS27103	EBR-II Fuel-Transfers Complete	DEC-2010	SEP-2011	I2
A.1.01.00.01.02.LC	1LS27173	PWR Fuel-Transfers Complete	SEP-2011		I2
A.1.01.00.01.02.LC	1LS27290	Misc. DOE Canned Fuels-Transfers Complete	SEP-2011		I2
A.1.01.00.01.02.LC	1LS27990	Complete Removal of DOE-Owned SNF from CPP 666	SEP-2012	SEP-2012	E2
A.1.01.00.01.03.LC	1LS28000	Decision issued on transf of Naval fuels to Navy	SEP-2004	SEP-2004	E4
A.1.01.00.01.03.LC	1LS28800	Remove Naval Fuel from INTEC	SEP-2012		E3
A.1.01.00.01.03.LC	1LS28330	A1W - Transfers from CPP-666 Complete	SEP-2009		E2
A.1.01.00.01.03.LC	1LS28130	S3G transfers from CPP-666 complete	SEP-2010		E2
A.1.01.00.01.03.LC	1LS28430	Navy Misc Fuels - Transfers from CPP-666 Complete	SEP-2012	SEP-2012	E2
A.1.01.00.01.03.LC	1LS28800	Remove Naval fuels from INTEC	SEP-2012		E3
A.1.01.00.01.03.LC	1LS28900	All SNF Removed from Wet Storage	DEC-2023	DEC-2023	E1
A.1.01.00.01.04.LC	1LS27502	Place shipments 21 thru 28 PBF SNF in dry stor	DEC-2003		E2
A.1.01.00.01.04.LC	1LS44222	Cease Acceptance of ATR Fuel	SEP-2010	SEP-2010	E3
A.1.01.00.01.06.LC	1LS24300	DOMESTIC FUEL RECEIPT-CORNELL	OCT-2003		I3
A.1.01.00.01.06.LC	1LS24400	DOMESTIC FUEL RECEIPT-TBD	OCT-2003		I3
A.1.01.00.01.06.LC	1LS24500	DOMESTIC FUEL RECEIPT-SUNY	OCT-2003		I3
A.1.01.00.01.06.LC	1LS24351	Receive & Unload the Cornell Cask at IFSF	SEP-2004		I2
A.1.01.00.01.06.LC	1LS24088	Complete Domestic SNF Receipts Program	OCT-2027		E2

WBS Element	Milestone Number	Description	Planned Date	Enforceable Date	Level
A.1.01.00.01.07.LC	1LS69002	Cplt remaining 8 PBF transfers to dry stor	DEC-2003		E2
A.1.01.00.02.02.LC	2LS27507	Complete shipment of U-233 & ULWBR to other site	SEP-2008	SEP-2008	E3
A.1.01.00.02.03.LC	2LS43050	Denitrator matl repackaged & ready to load	SEP-2004		E2
A.1.01.00.02.03.LC	2LS43052	All Denitrator material shipped offsite	SEP-2004	DEC-2004	E2
A.1.01.00.02.04.LC	2LS27502	Cplt repkg of Rover/PARKA SNM & transf to OR	SEP-2009		I3
A.1.01.00.02.05.LC	2LS43033	Complete shipment of remaining EM SNM to another site	SEP-2010	SEP-2009	E3
A.1.01.00.02.05.LC	2LS43035	Cont NEPA analysis to allow trans/disposition of SNM	SEP-2004	SEP-2004	E4
A.1.01.00.02.05.LC	2LS43036	Ship containers/transports available for accelerated shipments of SNM	SEP-2006	SEP-2006	E4
A.1.01.00.02.06.LC	2LS030	Turnover CPP-651 Facility & SNM to Program	SEP-2010		E2
A.1.01.00.03.01.LC	3LS21013	Supply analytical data to YM for license applic	DEC-2004		E3
A.1.01.00.03.01.LC	3LS50040	Repository shipping schedule issued	JAN-2005	JAN-2005	E4
A.1.01.00.03.01.LC	3LS21014	Cplt drop test & final rept on stand'd canister	SEP-2005		E3
A.1.01.00.03.01.LC	3LS21015	Cplt NRC req for info on repository license appl	SEP-2006		E3
A.1.01.00.03.01.LC	3LS21019	Cplt Transportability Report on MCOs	SEP-2007		E3
A.1.01.00.03.01.LC	3LS21016	Dvlp tech guidance for DOE SNF Custodians for SN	SEP-2009		E3
A.1.01.00.03.01.LC	3LS21017	Cplt further analyses to supt NRC req for inform	SEP-2009		E3
A.1.01.00.03.01.LC	3LS21021	Cplt lic appl input for amendment process	SEP-2009		E3
A.1.01.00.03.01.LC	3LS21020	Cplt supt to DOE	SEP-2010		E3

WBS Element	Milestone Number	Description	Planned Date	Enforceable Date	Level
		custodians in 1st shipm't to YM			
A.1.01.00.03.01.LC	3LS21018	Cplt closeout of all NSNFP activities	SEP-2011		E3
A.1.01.00.03.02.LC	3LS13035	SNFDSP NRC License Approval	APR-2004		E3
A.1.01.00.03.02.LC	3LS13207	Complete SNFDSP expansion Modification	APR-2010		E2
A.1.01.00.03.02.LC	3LS13208	Compl Transfer Dry Stor Facilities to INEEL M&O	APR-2010		E2
A.1.01.00.03.02.LC	3LS55005	Turnover SNFDSP to D&D	SEP-2030		E2
A.1.01.00.03.03.LC	3LS11100	Provide dsgn pkgs for 10/1/04 PB FHUs (BCP pend)	JAN-2006		I3
A.1.01.00.03.03.LC	3LS11101	Provide dsgn pkgs for 4/1/05 PB FHUs (BCP pend)	JUL-2006		I3
A.1.01.00.03.06.LC	3LS21005	Stabilize Uranium Metal & Alloy Fuel Meat Matrix	SEP-2005		E2
A.1.01.00.03.06.LC	3LS21006	Dry Carbide/Graphite Spent Nuclear Fuel	SEP-2005		E2
A.1.01.00.03.06.LC	3LS21007	Detect Interactions Between SNF & Stor Container	SEP-2008		E2
A.1.01.00.03.06.LC	3LS21008	Identify tech needs for Insoluble Neutron Poison	SEP-2008		E2
A.1.01.00.03.06.LC	3LS20005	Tech to meas integrity of dry SNF stor container	SEP-2010		E2
A.1.01.00.03.06.LC	3LS21009	Detect & Mitigate Microbially Ind Corr in Cntnr	SEP-2010		E2
A.1.01.00.03.06.LC	3LS21010	Treat Sodium & Reactive Mtl SNF prior to process	SEP-2010		E2
A.1.01.00.03.06.LC	3LS21011	Ident Means to immobilize/encap SNF debris/particulate	SEP-2010		E2
A.1.01.00.03.06.LC	3LS21012	Ident Process for remvl of organic-bearing matl fr SNF	SEP-2010		E2
A.1.01.00.03.07.LC	3LS37005	FSV SNF transf to INEEL cplt (244 cask	SEP-2022		E2

WBS Element	Milestone Number	Description	Planned Date	Enforceable Date	Level
		loads)			
A.1.01.00.03.07.LC	3LS37204	Cplt removal of all SNF from FSV (Colorado)	SEP-2034	SEP-2034	E1
A.1.01.00.03.08.LC	3LS41012	Transf Peach Bottom fuel to SNFDSP	SEP-2005		E2
A.1.01.00.03.08.LC	3LS41013	Transf Shipping port LWBR to SNFDSP	NOV-2006		E2
A.1.01.00.03.08.LC	3LS41014	Start repkg & storage repository-ready canisters	DEC-2005	DEC-2005	E3
A.1.01.00.03.08.LC	3LS41017	Transf Fermi I Blnkt cans to Treatment	SEP-2018		E2
A.1.01.00.03.08.LC	3LS41018	Cplt removal of SNF from CPP-749	SEP-2019		E2
A.1.01.00.03.09.LC	3LS48006	Transfer CPP-1774 SNF to SNFDSP	SEP-2028		E2
A.1.01.00.03.0A.LC	3LS13201	CD-0 Approve Mission Need (SNFDSP Expansion)	OCT-2003		E2
A.1.01.00.03.0A.LC	3LS67206	CD 4 Approval to Start Const (SNFDSP)	OCT-2003		E2
A.1.01.00.03.0A.LC	3LS13037	SNFDSP expansion LICP Concept Dsgn Report	SEP-2005		E2
A.1.01.00.03.0A.LC	3LS13206	SNFDSP Start Operations	DEC-2005		I3
A.1.01.00.03.0A.LC	3LS50205	Complete FW Reciepts/Repkg/Transfers (Phase III)	OCT-2008		I3
A.1.01.00.03.0A.LC	3LS53005	NRC License received for SNFDSP expansion	OCT-2007		E2
A.1.01.00.03.0A.LC	3LS53006	SNFDSP expansion operational (by M&O contractor	SEP-2009		E2
A.1.01.00.03.0A.LC	3LS50039	Start transfer of SNF from INEEL to repository	JAN-2011		E2
A.1.01.00.03.0A.LC	3LS50036	Transfer FSV SNF to repository	SEP-2022		E2
A.1.01.00.03.0A.LC	3LS51034	Transfer SNF canisters to repository	SEP-2023		E2

WBS Element	Milestone Number	Description	Planned Date	Enforceable Date	Level
A.1.01.00.03.0A.LC	3LS50037	Transfer TMI-2 SNF to repository	OCT-2028		E2
A.1.01.00.03.0A.LC	3LS50038	Transfer balance of misc SNF to repository	OCT-2029		E2
A.1.01.00.03.0A.LC	3LS50041	Repository open to receive DOE SNF	DEC-2010	DEC-2010	E4
A.1.01.00.03.0A.LC	3LS51999	All SNF Removed from State of Idaho	JAN-2035		E1
A.1.01.00.03.0A.LC	3LS51036	Complete removal of all SNF from SNFDSP	DEC-2029	DEC-2029	E2
A.1.01.00.03.0A.LC	3LS51201	Cplt final shipmnt of all EM-legacy SNF to repository	DEC-2034	DEC-2034	E3
A.1.01.00.03.0B.LC	3LS66000	Cplt validation of TSPA calcs for DOE SNF	SEP-2004		I3
A.1.01.00.03.0B.LC	3LS66001	Issue Repository Interface Control Document	SEP-2004		I3
A.1.01.00.03.0B.LC	3LS6602	Cplt Safeguards & Security Analysis for DOE SNF	SEP-2004		I3
A.1.01.00.03.0B.LC	3LS6603	Issue Summary Analysis Report for DOE SNF	SEP-2004		I3
A.1.01.00.03.0B.LC	3LS6604	Repository acceptance. Criteria will include bare intact fuel	SEP-2008	SEP-2008	E4
A.1.01.00.03.0B.LC	3LS6605	Issue decision on transfer of remaining fuels	SEP-2011	SEP-2011	E4
A.1.01.00.03.0F.LC	3LS43029	Transf TRIGA & Peach Bottom SNF to SNFDSP	MAR-2008		E2
A.1.01.00.03.0F.LC	3LS43031	Transf misc SNF fuel to SNFDSP complete	SEP-2022		E2
A.1.01.00.03.10.L1	3LH797	Submit Final RCRA Rulemaking Petition to DOE	SEP-2004		E2
A.1.01.00.03.10.L2	3LH250	Stakeholder Consensus	APR-2005		I1
A.1.01.00.03.10.L2	3LH455	Alternative treatment protective of human health	JUL-2006		I1
A.1.01.00.03.10.L3	3LH475	Calcine Treatment ROD	JUL-2007		E1
A.1.01.00.03.10.L3	3LH1710	Issue ROD on Calcine Treatment Path Forward	SEP-2007	DEC-2009	E1

WBS Element	Milestone Number	Description	Planned Date	Enforceable Date	Level
A.1.01.00.03.10.L5	3LH1615	Submit RCRA Part B Permit CSSF Storage to DOE	JUL-2004		E2
A.1.01.00.03.10.L5	3LH1623	Submit Part B Permit CSSF Storage to DEQ	DEC-2004		E2
A.1.01.00.03.10.L5	3LH1627	RCRA Part B Permit for CSSF Storage approved	DEC-2006		E2
A.1.01.00.03.10.L5	3LH1603	Submit Part B Permit for Ret/Pack Fac to DOE	SEP-2011		E2
A.1.01.00.03.10.L5	3LH1611	Submit RCRA Part B Permit-Ret/Pack Fac to DEQ	MAR-2012		E1
A.1.01.00.03.10.L5	3LH1941	DEQ Approval of RCRA Part B Ret/Pack Fac	JUN-2014		I1
A.1.01.00.03.11.L1	3LH855	Select One Preferred Stabilization Alternative	DEC-2004		I1
A.1.01.00.03.11.L2	3LH1391	Define Technology Development Needs	SEP-2004		E2
A.1.01.00.03.11.L2	3LH1451	Complete a Sample Ret. & Char Demonstration	SEP-2007	SEP-2007	E2
A.1.01.00.03.12.L1	3LH1126	Submit Construction Certification/Submit Class 2	SEP-2005		I1
A.1.01.00.03.12.L1	3LH1144	DOE Approval	JUN-2007		I1
A.1.01.00.03.13.L1	3LH950	Decision to Continue w/ Super Can	MAR-2006		I1
A.1.01.00.03.16.L1	3LH1690	Commence Conc. Design-Treat, Retrieve, & Packa	OCT-2007		I1
A.1.01.00.03.16.L3	3LH1951	DOE Approval to Commence Construction	AUG-2014		I1
A.1.01.00.03.17.L1	3LH1750	Complete Construction	MAR-2020		I1
A.1.01.00.03.17.L2	3LH1860	Final Ana/Ret/Pack Facility Turnover	MAR-2022		I1
A.1.01.00.03.18.L1	3LH1701	Commence Operations	APR-2022		I1
A.1.01.00.03.18.L1	3LH1805	Complete Operations	SEP-2030	DEC-2035	I3
A.1.01.00.04.01.LC	4L00000	Start-SBW	OCT-2003		I3
A.1.01.00.04.01.LC	4L00010	CD-1 Submitted	FEB-2004		E2
A.1.01.00.04.01.LC	4L00011	CD-1 Approved	MAR-2004		E2
A.1.01.00.04.01.LC	4L00012	CD-1/3 Approval - Critical Equpment & Materials	OCT-2004		E2

WBS Element	Milestone Number	Description	Planned Date	Enforceable Date	Level
A.1.01.00.04.01.LC	4L00020	CD-2 Submitted	FEB-2005		E2
A.1.01.00.04.01.LC	4L00021	CD-2 Approved	MAR-2005		E2
A.1.01.00.04.01.LC	4L00025	CD-2/3 Approval to Start Construction	AUG-2005		E2
A.1.01.00.04.01.LC	4L00030	CD-3 Submitted	FEB-2006		E2
A.1.01.00.04.01.LC	4L00035	CD-3 Approved	MAR-2006		E2
A.1.01.00.04.01.LC	4L00045	CD-4 Approved	JUL-2009		E2
A.1.01.00.04.01.LC	4L00413	Start Construction of SBW Facility by Dec 2005	DEC-2005	DEC-2005	I1
A.1.01.00.04.01.LC	4L00413G	WIPP ready to Receive SBW deliveries GFSI-4.1.3	MAR-2009	MAR-2009	E4
A.1.01.00.04.01.LC	4L00414	Complete Construction & Readiness Review SBW	MAR-2009	SEP-2008	I1
A.1.01.00.04.01.LC	4L00414G	Off-site Disposal & SBW shipping Schedule GFSI-4.1.4	JUN-2004	TBD	E4
A.1.01.00.04.01.LC	4L00415	Complete SBW & Ship Offsite by Dec 2012	DEC-2012	DEC-2012	I1
A.1.01.00.04.01.LC	4L00415G	Gov. Approval of Design & Build GFSI-4.1.5	DEC-2003	TBD	E4
A.1.01.00.04.07.LC	4L00200	SBW RCRA-Submit Draft Permit App to DEQ	MAR-2004		E1
A.1.01.00.04.07.LC	4L00300	SBW Air Permit-Complete PSD PTC Application	JUL-2004		E1
A.1.01.00.04.07.LC	4L00310	SBW Air Permit- Submit Draft Permit App to DEQ	SEP-2004		E1
A.1.01.00.04.07.LC	4L00210	SBW RCRA - DEQ Submits Comments to INEEL	OCT-2004		E1
A.1.01.00.04.07.LC	4L00320	SBW Air Permit - DEQ Comments to INEEL	JAN-2005		E1
A.1.01.00.04.07.LC	4L00230	SBW RCRA - Revised Permit Application to DEQ	JAN-2005		E1
A.1.01.00.04.07.LC	4L00240	SBW RCRA - DEQ Completes Draft Part B Permit	MAY-2005		E1
A.1.01.00.04.07.LC	4L00330	SBW Air Permit - DEQ Completes Draft Part B	JUL-2005		E1
A.1.01.00.04.07.LC	4L00250	SBW RCRA - DEQ Issue	SEP-2005		E1

WBS Element	Milestone Number	Description	Planned Date	Enforceable Date	Level
		RCRA Part B Permit			
A.1.01.00.04.07.LC	4L00340	SBW Air Permit - DEQ Issues PSD PTC	SEP-2005		E1
A.1.01.00.04.07.LC	4L00220	BBWI Approval of FDSA	OCT-2008		E2
A.1.01.00.04.08.LC	4L00040	Construction-Mechanical Complete	SEP-2008		I2
A.1.01.00.04.09.LC	4L00050	Start Shipping Canisters to WIPP	DEC-2009		I1
A.1.01.00.04.09.LC	4L00055	Start Storing NGLW	JAN-2012		I3
A.1.01.00.04.09.LC	4L00090	SP-6 Handoff	DEC-2012		I3
A.1.01.00.05.01.L1	5LEMILE1	Draft RI/FS Report to DOE-ID, EPA, IDEQ	JUL-2013		E1
A.1.01.00.05.01.L1	5LEMILE3	Draft Record of Decision to Agencies	NOV-2014		E1
A.1.01.00.05.01.L1	5LEMILE5	Draft RD/RA WP to Agencies	JAN-2016		E1
A.1.01.00.05.01.L1	5LEMILE7	Draft RA Report to Agencies	MAY-2020		E1
A.1.01.00.05.02.L1	5LHMILE1	Complete cleaning/grouiting of 2nd P&P Vault Tank	SEP-2004	SEP-2004	E2
A.1.01.00.05.02.L1	5LHMILE2	S PBI-05 2.6.3 FY04 Complet tank solids charact	SEP-2004		E2
A.1.01.00.05.02.L1	5LHMILE3	Cease receipt of NGLW in the 11 HLW Tanks	SEP-2005	SEP-2005	E2
A.1.01.00.05.03.L1	5LHMILE5	5-2.6 By the end of FY04 Clean two more P&P Vault Tank	SEP-2004		E2
A.1.01.00.05.03.L1	5LHMILE6	5-2.7 By the end of FY04 Close two more P&P Tanks	SEP-2004		E2
A.1.01.00.05.03.L1	5LHMILE7	Complete clean/grout of remaining P&P vault tank	DEC-2006	DEC-2006	E2
A.1.01.00.05.05.L1	5LHMILE4	Complete cleaning/grouting of two more Tanks	SEP-2008	SEP-2008	E2
A.1.01.00.05.06.L1	5LHMILE8	Close remaining Tank Farm Tanks	SEP-2012	SEP-2012	E1
A.1.01.00.06.01.L1	6LV00055	VCO HWD on 75% tanks Complete-Link	MAR-2005		I1

WBS Element	Milestone Number	Description	Planned Date	Enforceable Date	Level
A.1.01.00.06.01.L1	6LV00065	VCO HWD on 100% tanks Complete-Link	SEP-2005		I1
A.1.01.00.06.01.L1	6LV00067	Complete VCO Activities for INTEC SP 6 Project	SEP-2012		I1
A.1.01.00.06.02.L1	6LE21025	Group 2 CPP 601/602 dft RD/RAWP sent to EPA/IDEQ	MAY-2012		E1
A.1.01.00.06.02.L1	6LE21050	Group2 CPP601/602 dft RA Report sent to EPA/IDEQ	FEB-2032		E1
A.1.01.00.06.02.L1	6LE21060	CPP-601/602 D&D/CERCLA RA Complete-LTS	JUN-2032		I2
A.1.01.00.06.02.L2	6LE24025	CPP-604/605/649 dft RD/RAWP sent to EPA/IDEQ	MAY-2031		E1
A.1.01.00.06.02.L2	6LE24050	CPP-604/605/649 dft RA Report sent to EPA/IDEQ	FEB-2035		E1
A.1.01.00.06.02.L2	6LE24060	CPP-604/605/649 D&D/CERCLA RA Complete-LTS	JUN-2035		I2
A.1.01.00.06.02.L3	6LE23025	Group 2 CPP 603 dft RD/RAWP sent to EPA/IDEQ	OCT-2023		E1
A.1.01.00.06.02.L3	6LE23050	Group 2 CPP 603 dft RA Report sent to EPA/IDEQ	AUG-2032		E1
A.1.01.00.06.02.L3	6LE23060	Group 2 CPP 603 D&D/CERCLA RA Complete-LTS	SEP-2034		I2
A.1.01.00.06.03.L1	6LE31020	Begin Disposition of Gp-3 Set 1 Waste to SSSTF	OCT-2004		I3
A.1.01.00.06.03.L1	6LE31030	End Disposition of Gp-3 Set 1 Waste at SSSTF	SEP-2006		I3
A.1.01.00.06.03.L1	6LE31045	ER Gp3 Remediation Set 1 Closed	FEB-2007		I2
A.1.01.00.06.03.L2	6LE32020	Begin Disposition of Gp-3 Set 2 Phase 1 to ICDF	MAR-2005		I3
A.1.01.00.06.03.L2	6LE32030	End Disposition of Gp-3 Set 2 Phase 1 at ICDF	DEC-2005		I3
A.1.01.00.06.03.L2	6LE32120	Begin Disposition of Gp-3 Set 2 Phase 2 at ICDF	MAR-2006		I3
A.1.01.00.06.03.L2	6LE32130	End Disposition of Gp-3	NOV-2006		I3

WBS Element	Milestone Number	Description	Planned Date	Enforceable Date	Level
		Set 2 Phase 2 at ICDF			
A.1.01.00.06.03.L2	6LE32045	ER Gp3 Remediation Set 2 Closed	APR-2007		I2
A.1.01.00.06.03.L3	6LE33020	Begin Disposition of Gp-3 Set 3 Phase 1 to ICDF	MAR-2007		I3
A.1.01.00.06.03.L3	6LE33030	End Disposition of Gp-3 Set 3 Phase 1 at ICDF	NOV-2007		I3
A.1.01.00.06.03.L3	6LE33120	Begin Disposition of Gp-3 Set 3 Phase 2 at ICDF	MAR-2008		I3
A.1.01.00.06.03.L3	6LE33130	End Disposition of Gp-3 Set 3 Phase 2 at ICDF	NOV-2008		I3
A.1.01.00.06.03.L3	6LE33045	ER Gp3 Remediation Set 3 Closed	APR-2009		I2
A.1.01.00.06.03.L4	6LE34020	Begin Disposition of Gp-3 Set 4 waste to ICDF	MAR-2009		I3
A.1.01.00.06.03.L4	6LE34030	End Disposition of Gp-3 Set 4 Waste at ICDF	MAR-2010		I3
A.1.01.00.06.03.L4	6LE34045	ER Gp3 Remediation Set 4 Closed	AUG-2010		I2
A.1.01.00.06.03.L5	6LE35020	Gegin Dispostion of Gp-3 Set 5 waste to ICDF	MAR-2010		I3
A.1.01.00.06.03.L5	6LE35030	End Disposition of Gp-3 Set 5 Waste at ICDF	DEC-2010		I3
A.1.01.00.06.03.L5	6LE35045	ER Gp3 Remediation Set 5 Closed	APR-2011		I2
A.1.01.00.06.03.L6	6LE36020	Begin Disposition of Gp-3 Set 6 waste to ICDF	MAR-2011		I3
A.1.01.00.06.03.L6	6LE36030	End Disposition of Gp-3 Set 6 Waste at ICDF	NOV-2011		I3
A.1.01.00.06.03.L6	6LE3825	PMP Key MS-Complete removal of soils to ICDF	NOV-2011		I1
A.1.01.00.06.03.L6	6LE36045	ER Gp3 Remediation Set 6 Closed	APR-2012		I2
A.1.01.00.06.03.L7	6LE30025	OU 3-13 Gp 3 Dft Ph 2 RD/RA WP Sent to EPA/IDEQ	OCT-2007		E1
A.1.01.00.06.03.L7	6LE38015	OU 3-13 Group 3 RA Report Sent to EPA/IDEQ	OCT-2012		E1
A.1.01.00.06.03.L7	6LE38030	Group 3 Soil Remediation Complete	FEB-2013		I3
A.1.01.00.06.04.L1	6LE40025	OU 3-13 Group 4 draft MRDS Sent to	JUN-2007	JUN-2007	E1

WBS Element	Milestone Number	Description	Planned Date	Enforceable Date	Level
		EPA/IDEQ			
A.1.01.00.06.04.L1	6LE40040	Submit Gp 4 dft CR RD/RAWP to EPA/IDEQ	JUL-2008		E1
A.1.01.00.06.04.L1	6LE40065	OU 3-13 Group 4 CR MRDS Sent to EPA/IDEQ	MAR-2016		E1
A.1.01.00.06.04.L1	6LE40080	OU 3013 Group 4 S&M to LTS-Link	OCT-2016		I2
A.1.01.00.06.04.L5	6LE50013	OU 3-13 Group 5 Monitoring Rpt Sent to EPA/IDEQ	AUG-2004		E2
A.1.01.00.06.04.L5	6LE50020	Group 5 INTEC SRPA Groundwater Monitoring to LTS	APR-2005		I3
A.1.01.00.06.06.L1	6LE60025	Begin Disposition of Group-6 Soil to ICDF	JUN-2012		I3
A.1.01.00.06.06.L1	6LE60035	End Disposition of Group-6 Soil at ICDF	JUN-2013		I3
A.1.01.00.06.06.L1	6LE60065	Group-6 CERCLA Remediation Complete	JUL-2014		I2
A.1.01.00.06.06.L1	6LE60055	OU 3-13 Group 6 dft RA Report sent to EPA/IDEQ	MAR-2014		E1
A.1.01.00.06.07.L1	6LE70010	Group 7 SFE-20 dft RD/RAWP sent to EPA/IDEQ	OCT-2008		E1
A.1.01.00.06.07.L1	6LE70030	Group 7 SFE-20 Dft RA Report sent to EPA/IDEQ	DEC-2010		E1
A.1.01.00.06.07.L1	6LE70040	Group 7 SFE-20 Remedial Actions Complete	AUG-2011		I2
A.1.01.00.06.09.L1	6LS38003	Final D&D Plan for FSV approved by NRC	SEP-2027		E2
A.1.01.00.06.09.L1	6LS38005	Complete D&D of FSV ISFSI	SEP-2032		E1
A.1.01.00.06.10.L1	6LMG0070	INTEC Comp CERCLA Dft RA Report sent to EPA/IDEQ	MAY-2035		E1
A.1.01.00.06.10.L1	6LMG0090	INTEC CERCLA Remedial Actions Complete	SEP-2035		I2
A.1.01.00.06.10.L1	6LMGEND	INTEC Lifecycle Finish Milestone FY2035	SEP-2035		I3

WBS Element	Milestone Number	Description	Planned Date	Enforceable Date	Level
A.1.01.00.06.DD.L0	6LD0END	INTEC CERCLA Remedial Actions Complete	SEP-2016		I2
A.1.01.00.06.DD.L1	6LD1BEG	Begin INTEC D&D CPP-601 Area	OCT-2011		I3
A.1.01.00.06.DD.L1	6LD1END	Completed INTEC D&D CPP-601 Area	SEP-2029		I3
A.1.01.00.06.DD.L2	6LD2BEG	Begin INTEC D&D CPP-637 Area	OCT-2011		I3
A.1.01.00.06.DD.L2	6LD2END	Completed INTEC D&D CPP-637 Area	SEP-2017		I3
A.1.01.00.06.DD.L3	6LD3BEG	Begin INTEC D&D Coal Fired Boiler Facilities	OCT-2011		I3
A.1.01.00.06.DD.L3	6LD3END	Completed INTEC D&D Coal Fired Boiler Facilities	SEP-2014		I3
A.1.01.00.06.DD.L5	6LD5BEG	Begin INTEC D&D CPP Misc. Facilities	OCT-2011		I3
A.1.01.00.06.DD.L5	6LD4END	Completed INTEC D&D CPP Misc. Facilities	SEP-2021		I3
A.1.01.00.06.DD.L5	6LD5NRC1	Final D&D Plan for CPP-1774 approved by NRC	SEP-2028		E2
A.1.01.00.06.DD.L5	6LD5END	Completed INTEC D&D Facilities 2035-45	SEP-2034		I3
A.1.01.00.06.DD.L7	6LD7BEG	Begin INTEC D&D 2004-12 PMP Compliance	OCT-2003		I3
A.1.01.00.06.DD.L7	6LD7END	Completed INTEC 2012 PMP Compliance	SEP-2012		I3
A.1.01.00.06.DD.L7	6LD706M1	DD&D of CPP-601/627/640 Complete	SEP-2015		I2
A.1.01.00.06.DD.L7	6LD7END2	Completed INTEC D&D 2020 PMP Compliance	SEP-2020		I2
A.1.01.00.06.DD.L8	6LD8BEG	Begin INTEC D&D Future Facilities	OCT-2012		I3
A.1.01.00.06.DD.L8	6LD80510	Final D&D Plan for SNF DSP approved by NRC	SEP-2030		E2
A.1.01.00.06.DD.L8	6LD8END	Completed INTEC D&D Future Facilities	SEP-2034		I3
A.1.01.00.06.DD.L9	6LD90250	Complete Closure Ana/Ret/Pack/CSSF	SEP-2034		E1

FY 2003-2035
Corporate Performance Measures by HQ PBS and BBWI WBS (first draft)

INEEL PBS	New PBS Field Code	Measure/Units	FY 2003 1Q	FY 2003 2Q	FY 2003 3Q	FY 2003 4Q	FY 2003 Total	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009-2012	FY 2012-2035	Life-cycle FY 2003-2035 Total
INTEC	HQ-SNF-0012X	SNF packaged for final disposition (MTHM)	0	0	0	0	0	0	0.073	1.415	1.044	18.054	231.97	0	252.556
INTEC	ID-INEEL-0011	DU packaged for disposition (metric tons)	0	0	0	0	0	0	0	0.04	0	0	0	0	0.04
INTEC	ID-INEEL-0011	eUpackaged for long-term storage (# of containers)	6	0	0	46	52	313	34	35	125	155	110	0	824
INTEC	ID-INEEL-0014C	HLW packaged for final disposition (# of containers)	0	0	0	0	0	0	0	0	0	0	0	4200	4200
INTEC	ID-INEEL-0050C	Industrial Facility Completions (# of facilities)	0	0	0	0	0	0	0	0	0	0	0	94	94
INTEC	ID-INEEL-0014B	Liquid Waste in Inventory eliminated (millions of gallons)	0	0	0	0	0	0	0	0	0	0	0.9	0	0.9
INTEC	ID-INEEL-0014B	Liquid Waste Tanks closed (# of tanks)	0	0	0	1	1	1	1	1	2	1	4	0	11
INTEC	ID-INEEL-0011	MAAs eliminated (# of areas)	0	0	0	0	0	0	0	0	0	0	1		1
INTEC	ID-INEEL-0040C	Nuclear Facility Completions (# of facilities)	0	0	0	0	0	0	0	0	0	0	0	37	37
INTEC	ID-INEEL-0050B	Radioactive Facility Completions (# of facilities)	0	0	0	0	0	0	0	0	0	0	2	0	2
INTEC	ID-INEEL-0050C	Radioactive Facility Completions (# of facilities)	0	0	0	0	0	0	0	0	0	0	0	11	11
INTEC	ID-INEEL-0030C	Remediation Complete (# of release sites)	0	0	0	0	0	0	0	0	0	0	0	11	11

INTEC Completion

Breakout by Budget Element

WBS[4]		BE		Sep-04	Sep-05	Sep-06	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
A.1.01.00 INTEC Completion PBS A																			
	BURDENED BASE																		
		C	BCWS	7,479	34,172	61,734	48,325	53,549	48,754	47,015	48,955	34,522	34,889	34,973	49,822	42,686	36,064	35,616	33,674
		DOE	BCWS	52,078	15,302	19,169	19,478	24,839	15,817	18,408	18,481	17,587	17,658	17,658	17,658	17,729	17,587	17,587	17,658
		DOESNF	BCWS	0	0	0	0	0	0	0	0	27,777	27,889	27,889	27,889	28,001	27,777	27,777	0
		L	BCWS	135,211	148,114	139,575	151,188	165,871	168,259	170,903	170,252	148,465	113,817	106,148	106,450	100,276	93,048	92,469	88,956
		M	BCWS	17,534	48,475	28,431	32,750	18,336	26,230	39,652	42,639	38,923	23,550	22,839	33,637	20,742	12,581	11,564	9,895
		N	BCWS	1,670	2,493	2,302	2,356	2,493	2,331	2,114	7,382	2,384	2,196	2,142	2,213	5,000	2,424	2,424	2,806
		S	BCWS	20,577	37,184	39,981	51,368	56,571	41,061	25,205	20,544	18,597	17,961	15,122	48,237	48,308	50,399	48,760	48,163
		T	BCWS	1,002	732	663	654	823	766	569	388	377	370	339	408	410	407	407	408
	Results... Totals:		**BCWS**	**235,550**	**286,474**	**291,856**	**306,118**	**322,484**	**303,218**	**303,866**	**308,641**	**288,632**	**238,330**	**227,110**	**286,314**	**263,151**	**240,288**	**236,605**	**201,560**
	ESCALATE																		
		C	BCWS	157	1,449	3,970	4,190	5,864	6,475	7,363	8,856	7,101	8,059	8,984	14,109	13,241	12,179	13,028	13,284
		DOE	BCWS	1,094	649	1,233	1,689	2,720	2,101	2,883	3,343	3,618	4,079	4,536	5,001	5,499	5,939	6,433	6,966
		L	BCWS	4,323	7,978	10,609	14,847	20,153	24,442	28,851	32,948	32,352	27,683	28,664	31,613	32,469	32,733	35,153	36,392
		M	BCWS	368	2,055	1,828	2,839	2,008	3,483	6,209	7,713	8,006	5,440	5,867	9,526	6,434	4,248	4,230	3,904
		N	BCWS	35	106	148	204	273	310	331	1,335	490	507	550	627	1,551	819	887	1,107
		S	BCWS	432	1,577	2,571	4,454	6,194	5,453	3,947	3,716	3,825	4,149	3,885	13,661	14,985	17,020	17,836	19,000
		T	BCWS	21	31	43	57	90	102	89	70	78	85	87	116	127	137	149	161
	Results... Totals:		**BCWS**	**6,430**	**13,845**	**20,401**	**28,279**	**37,302**	**42,365**	**49,673**	**57,983**	**55,471**	**50,003**	**52,574**	**74,653**	**74,307**	**73,076**	**77,717**	**80,815**
	SUMMARY (Base + Escalation)																		
		C	BCWS	7,636	35,621	65,704	52,515	59,413	55,229	54,378	57,811	41,623	42,948	43,957	63,931	55,928	48,243	48,644	46,958
		DOE	BCWS	53,171	15,951	20,401	21,166	27,559	17,917	21,290	21,825	21,205	21,737	22,194	22,659	23,228	23,527	24,021	24,624
		DOESNF	BCWS	0	0	0	0	0	0	0	0	27,777	27,889	27,889	27,889	28,001	27,777	27,777	0
		L	BCWS	139,534	156,093	150,184	166,035	186,024	192,701	199,754	203,200	180,817	141,500	134,812	138,063	132,744	125,782	127,622	125,349
		M	BCWS	17,902	50,531	30,259	35,589	20,344	29,713	45,861	50,353	46,929	28,990	28,707	43,163	27,176	16,829	15,795	13,798
		N	BCWS	1,706	2,599	2,450	2,561	2,767	2,640	2,445	8,718	2,874	2,704	2,693	2,839	6,551	3,243	3,311	3,913
		S	BCWS	21,009	38,761	42,552	55,821	62,765	46,514	29,152	24,261	22,422	22,110	19,007	61,898	63,293	67,419	66,596	67,163
		T	BCWS	1,023	763	706	711	914	868	658	458	455	455	426	524	537	544	555	569
	Results... Totals:		**BCWS**	**241,980**	**300,318**	**312,256**	**334,397**	**359,785**	**345,583**	**353,538**	**366,624**	**344,103**	**288,333**	**279,684**	**360,966**	**337,458**	**313,364**	**314,321**	**282,375**

Thousands of $

INTEC Completion

Breakout by Budget Element

WBS[4]		BE		FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	FY 2035	Cumulative
A.1.01.00 INTEC Completion PBS A																				
	BURDENED BASE																			
		C	BCWS	25,424	20,899	14,043	11,110	14,520	17,920	21,715	22,411	29,698	36,917	27,645	17,829	12,176	2,723	1,430	480	929,168
		DOE	BCWS	17,729	17,729	17,729	17,587	17,658	17,658	15,448	15,448	15,510	15,386	15,448	451	452	452	449	449	510,276
		DOESNF	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	195,000
		L	BCWS	93,290	94,974	88,872	81,667	87,710	91,121	95,167	93,385	97,216	96,260	75,058	33,073	30,022	16,078	12,963	11,193	3,197,051
		M	BCWS	13,515	11,734	11,913	9,978	11,264	11,338	12,804	11,745	12,629	14,460	11,880	9,439	8,533	4,504	3,026	2,185	588,726
		N	BCWS	2,830	5,831	2,749	1,986	2,297	2,314	5,335	2,278	2,212	1,726	3,904	299	298	45	44	3	78,884
		S	BCWS	27,211	35,197	23,484	6,738	7,605	8,990	9,536	10,133	11,615	12,490	12,794	7,297	4,608	3,431	1,430	247	770,846
		T	BCWS	422	489	376	319	321	321	321	321	272	269	270	16	16	16	16	16	12,500
	Results... Totals:		**BCWS**	**180,421**	**186,852**	**159,167**	**129,386**	**141,375**	**149,663**	**160,326**	**155,721**	**169,151**	**177,508**	**146,998**	**68,403**	**56,106**	**27,248**	**19,358**	**14,572**	**6,282,451**
	ESCALATE																			
		C	BCWS	10,775	9,482	6,800	5,726	7,945	10,388	13,307	14,493	20,233	26,455	20,808	14,076	10,069	2,356	1,294	453	302,970
		DOE	BCWS	7,513	8,044	8,584	9,065	9,663	10,236	9,466	9,990	10,567	11,026	11,628	356	374	392	406	424	165,514
		L	BCWS	40,950	44,539	44,524	43,403	49,439	54,352	59,961	61,996	68,020	70,739	57,623	26,717	25,314	14,234	11,986	10,797	1,085,805
		M	BCWS	5,728	5,324	5,768	5,143	6,164	6,573	7,846	7,595	8,604	10,362	8,942	7,452	7,057	3,897	2,738	2,064	175,418
		N	BCWS	1,199	2,645	1,331	1,024	1,257	1,342	3,269	1,473	1,507	1,237	2,938	236	246	39	40	3	29,068
		S	BCWS	11,532	15,969	11,371	3,473	4,162	5,212	5,844	6,553	7,913	8,951	9,630	5,761	3,811	2,969	1,294	233	227,383
		T	BCWS	179	222	182	165	175	186	196	207	185	192	203	13	13	14	14	15	3,604
	Results... Totals:		**BCWS**	**77,876**	**86,225**	**78,561**	**67,997**	**78,804**	**88,289**	**99,890**	**102,308**	**117,029**	**128,962**	**111,772**	**54,610**	**46,885**	**23,901**	**17,772**	**13,990**	**1,989,762**
	SUMMARY (Base + Escalation)																			
		C	BCWS	36,199	30,381	20,843	16,836	22,465	28,309	35,022	36,904	49,931	63,373	48,453	31,905	22,245	5,079	2,724	933	1,232,138
		DOE	BCWS	25,242	25,772	26,313	26,652	27,321	27,894	24,914	25,438	26,076	26,412	27,075	806	827	844	855	873	675,791
		DOESNF	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	195,000
		L	BCWS	134,239	139,513	133,397	125,070	137,149	145,473	155,128	155,382	165,236	167,000	132,681	59,790	55,336	30,312	24,949	21,990	4,282,856
		M	BCWS	19,243	17,057	17,682	15,121	17,427	17,911	20,651	19,340	21,234	24,821	20,822	16,890	15,590	8,401	5,764	4,249	764,145
		N	BCWS	4,029	8,476	4,081	3,010	3,554	3,656	8,604	3,752	3,719	2,963	6,842	535	544	84	84	6	107,952
		S	BCWS	38,743	51,166	34,855	10,211	11,767	14,201	15,380	16,686	19,528	21,441	22,423	13,058	8,419	6,401	2,724	481	998,229
		T	BCWS	601	711	559	484	496	506	517	528	457	461	473	28	29	30	30	31	16,104
	Results... Totals:		**BCWS**	**258,297**	**273,077**	**237,728**	**197,384**	**220,179**	**237,951**	**260,216**	**258,029**	**286,180**	**306,470**	**258,770**	**123,013**	**102,990**	**51,149**	**37,130**	**28,562**	**8,272,213**

Thousands of $

INTEC Completion

Breakout by Subproject

WBS[4]		WBS[5]		Sep-04	Sep-05	Sep-06	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
A.1.01.00 INTEC Completion PBS A													
	BURDENED BASE												
		A.1.01.00.00 CPP-SP0 Project Support & Facility Authority	BCWS	112,243	123,316	123,654	129,075	109,513	117,166	111,406	106,619	86,844	75,801
		A.1.01.00.01 CPP-SP1 Wet SNF to Dry & SNF Consolidation	BCWS	10,281	13,224	13,553	12,016	13,500	16,164	14,418	7,783	5,030	3,516
		A.1.01.00.02 CPP-SP2 SNM Consolidation	BCWS	1,350	2,028	1,534	3,492	8,767	2,806	1,510	0	0	0
		A.1.01.00.03 CPP-SP3 SNF and Calcine Disposition	BCWS	65,254	37,289	43,716	54,179	91,338	78,824	58,826	59,841	85,448	84,897
		A.1.01.00.04 CPP-SP4 SBW to WIPP	BCWS	29,712	85,530	74,100	71,396	60,750	47,282	77,416	87,487	75,057	11,878
		A.1.01.00.05 CPP-SP5 Integrated Tank Farm Closure	BCWS	6,873	5,088	6,930	6,619	5,471	6,757	6,203	8,760	10,783	4,115
		A.1.01.00.06 CPP-SP6 Excess Facilities Disposition & D&D	BCWS	9,836	20,000	28,368	29,342	33,145	34,220	34,088	38,151	25,471	58,125
	Results... Totals:		**BCWS**	**235,550**	**286,474**	**291,856**	**306,118**	**322,484**	**303,218**	**303,866**	**308,641**	**288,632**	**238,330**
	ESCALATE												
		A.1.01.00.00 CPP-SP0 Project Support & Facility Authority	BCWS	3,294	6,213	8,936	12,199	12,917	16,556	18,458	20,225	18,668	18,221
		A.1.01.00.01 CPP-SP1 Wet SNF to Dry & SNF Consolidation	BCWS	322	676	984	1,150	1,606	2,317	2,404	1,487	1,088	850
		A.1.01.00.02 CPP-SP2 SNM Consolidation	BCWS	43	101	115	335	1,052	400	251	0	0	0
		A.1.01.00.03 CPP-SP3 SNF and Calcine Disposition	BCWS	1,524	1,855	3,015	4,974	10,422	10,860	9,502	11,132	12,153	13,468
		A.1.01.00.04 CPP-SP4 SBW to WIPP	BCWS	747	3,752	4,865	6,303	6,860	6,583	12,549	16,355	15,883	2,744
		A.1.01.00.05 CPP-SP5 Integrated Tank Farm Closure	BCWS	207	251	517	638	641	961	1,025	1,681	2,306	995
		A.1.01.00.06 CPP-SP6 Excess Facilities Disposition & D&D	BCWS	293	996	1,968	2,680	3,803	4,689	5,484	7,102	5,374	13,725
	Results... Totals:		**BCWS**	**6,430**	**13,845**	**20,401**	**28,279**	**37,302**	**42,365**	**49,673**	**57,983**	**55,471**	**50,003**
	SUMMARY (Base + Escalation)												
		A.1.01.00.00 CPP-SP0 Project Support & Facility Authority	BCWS	115,537	129,530	132,590	141,274	122,430	133,721	129,864	126,844	105,512	94,022
		A.1.01.00.01 CPP-SP1 Wet SNF to Dry & SNF Consolidation	BCWS	10,604	13,900	14,537	13,166	15,106	18,482	16,822	9,270	6,118	4,365
		A.1.01.00.02 CPP-SP2 SNM Consolidation	BCWS	1,393	2,129	1,649	3,827	9,819	3,205	1,761	0	0	0
		A.1.01.00.03 CPP-SP3 SNF and Calcine Disposition	BCWS	66,779	39,144	46,731	59,153	101,760	89,683	68,328	70,973	97,601	98,365
		A.1.01.00.04 CPP-SP4 SBW to WIPP	BCWS	30,458	89,282	78,965	77,699	67,610	53,865	89,965	103,842	90,939	14,621
		A.1.01.00.05 CPP-SP5 Integrated Tank Farm Closure	BCWS	7,081	5,338	7,447	7,257	6,113	7,718	7,227	10,441	13,089	5,110
		A.1.01.00.06 CPP-SP6 Excess Facilities Disposition & D&D	BCWS	10,129	20,996	30,336	32,022	36,948	38,909	39,572	45,253	30,844	71,850
	Results... Totals:		**BCWS**	**241,980**	**300,318**	**312,256**	**334,397**	**359,785**	**345,583**	**353,538**	**366,624**	**344,103**	**288,333**

Thousands of $

INTEC Completion

Breakout by Subproject

WBS[4]		WBS[5]		FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
A.1.01.00 INTEC Completion PBS A														
	BURDENED BASE													
		A.1.01.00.00 CPP-SP0 Project Support & Facility Authority	BCWS	71,917	75,568	75,073	69,172	65,547	67,197	73,018	68,180	63,563	50,158	50,447
		A.1.01.00.01 CPP-SP1 Wet SNF to Dry & SNF Consolidation	BCWS	3,516	3,581	3,595	3,566	3,566	3,581	3,595	3,595	3,580	3,551	3,565
		A.1.01.00.02 CPP-SP2 SNM Consolidation	BCWS	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.03 CPP-SP3 SNF and Calcine Disposition	BCWS	83,884	154,034	142,566	133,644	133,555	106,782	79,324	85,498	79,336	68,715	73,052
		A.1.01.00.04 CPP-SP4 SBW to WIPP	BCWS	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.05 CPP-SP5 Integrated Tank Farm Closure	BCWS	1,565	4,592	6,479	3,124	3,124	3,136	1,220	0	0	0	0
		A.1.01.00.06 CPP-SP6 Excess Facilities Disposition & D&D	BCWS	66,228	48,539	35,438	30,782	30,813	20,864	23,264	29,579	12,688	6,962	14,310
	Results... Totals:		**BCWS**	**227,110**	**286,314**	**263,151**	**240,288**	**236,605**	**201,560**	**180,421**	**186,852**	**159,167**	**129,387**	**141,375**
	ESCALATE													
		A.1.01.00.00 CPP-SP0 Project Support & Facility Authority	BCWS	19,167	22,107	23,998	24,057	24,681	27,237	31,729	31,657	31,494	26,425	28,191
		A.1.01.00.01 CPP-SP1 Wet SNF to Dry & SNF Consolidation	BCWS	941	1,053	1,155	1,245	1,346	1,455	1,567	1,675	1,778	1,876	1,998
		A.1.01.00.02 CPP-SP2 SNM Consolidation	BCWS	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.03 CPP-SP3 SNF and Calcine Disposition	BCWS	14,657	36,073	35,894	36,113	39,062	42,504	34,028	39,271	39,053	36,036	40,663
		A.1.01.00.04 CPP-SP4 SBW to WIPP	BCWS	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.05 CPP-SP5 Integrated Tank Farm Closure	BCWS	420	1,368	2,053	1,071	1,159	1,254	533	0	0	0	0
		A.1.01.00.06 CPP-SP6 Excess Facilities Disposition & D&D	BCWS	17,389	14,052	11,208	10,590	11,469	8,365	10,019	13,622	6,236	3,661	7,953
	Results... Totals:		**BCWS**	**52,574**	**74,653**	**74,307**	**73,076**	**77,717**	**80,815**	**77,876**	**86,225**	**78,561**	**67,997**	**78,804**
	SUMMARY (Base + Escalation)													
		A.1.01.00.00 CPP-SP0 Project Support & Facility Authority	BCWS	91,084	97,675	99,071	93,229	90,228	94,434	104,747	99,838	95,057	76,583	78,637
		A.1.01.00.01 CPP-SP1 Wet SNF to Dry & SNF Consolidation	BCWS	4,457	4,634	4,750	4,811	4,912	5,035	5,162	5,270	5,358	5,427	5,563
		A.1.01.00.02 CPP-SP2 SNM Consolidation	BCWS	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.03 CPP-SP3 SNF and Calcine Disposition	BCWS	98,541	190,107	178,460	169,758	172,617	149,286	113,352	124,769	118,389	104,751	113,715
		A.1.01.00.04 CPP-SP4 SBW to WIPP	BCWS	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.05 CPP-SP5 Integrated Tank Farm Closure	BCWS	1,985	5,960	8,532	4,195	4,283	4,390	1,753	0	0	0	0
		A.1.01.00.06 CPP-SP6 Excess Facilities Disposition & D&D	BCWS	83,617	62,591	46,645	41,372	42,282	29,229	33,283	43,200	18,924	10,623	22,264
	Results... Totals:		**BCWS**	**279,684**	**360,966**	**337,458**	**313,364**	**314,321**	**282,375**	**258,297**	**273,077**	**237,728**	**197,384**	**220,179**

Thousands of $

INTEC Completion

Breakout by Subproject

WBS[4]		WBS[5]		FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	FY 2035	Cumulative
A.1.01.00 INTEC Completion PBS A															
	BURDENED BASE														
		A.1.01.00.00 CPP-SP0 Project Support & Facility Authority	BCWS	49,332	53,181	44,441	44,087	43,058	45,389	13,752	14,261	12,501	12,401	12,401	2,170,278
		A.1.01.00.01 CPP-SP1 Wet SNF to Dry & SNF Consolidation	BCWS	3,565	3,501	3,501	92	0	0	0	0	0	0	0	159,434
		A.1.01.00.02 CPP-SP2 SNM Consolidation	BCWS	0	0	0	0	0	0	0	0	0	0	0	21,486
		A.1.01.00.03 CPP-SP3 SNF and Calcine Disposition	BCWS	74,204	72,146	72,146	72,470	64,175	48,192	0	0	0	0	0	2,203,336
		A.1.01.00.04 CPP-SP4 SBW to WIPP	BCWS	0	0	0	0	0	0	0	0	0	0	0	620,606
		A.1.01.00.05 CPP-SP5 Integrated Tank Farm Closure	BCWS	0	0	0	0	0	0	0	0	0	0	0	90,838
		A.1.01.00.06 CPP-SP6 Excess Facilities Disposition & D&D	BCWS	22,561	31,498	35,633	52,503	70,275	53,416	54,651	41,845	14,748	6,957	2,171	1,016,472
	Results... Totals:		**BCWS**	**149,663**	**160,326**	**155,721**	**169,151**	**177,508**	**146,997**	**68,403**	**56,106**	**27,248**	**19,358**	**14,572**	**6,282,451**
	ESCALATE														
		A.1.01.00.00 CPP-SP0 Project Support & Facility Authority	BCWS	29,192	33,227	29,329	30,634	31,448	34,748	11,057	12,005	11,007	11,409	11,908	672,395
		A.1.01.00.01 CPP-SP1 Wet SNF to Dry & SNF Consolidation	BCWS	2,114	2,194	2,314	62	0	0	0	0	0	0	0	35,656
		A.1.01.00.02 CPP-SP2 SNM Consolidation	BCWS	0	0	0	0	0	0	0	0	0	0	0	2,296
		A.1.01.00.03 CPP-SP3 SNF and Calcine Disposition	BCWS	43,729	44,915	47,369	50,102	46,617	36,514	0	0	0	0	0	741,504
		A.1.01.00.04 CPP-SP4 SBW to WIPP	BCWS	0	0	0	0	0	0	0	0	0	0	0	76,641
		A.1.01.00.05 CPP-SP5 Integrated Tank Farm Closure	BCWS	0	0	0	0	0	0	0	0	0	0	0	17,079
		A.1.01.00.06 CPP-SP6 Excess Facilities Disposition & D&D	BCWS	13,253	19,555	23,297	36,230	50,897	40,510	43,553	34,880	12,894	6,363	2,082	444,191
	Results... Totals:		**BCWS**	**88,289**	**99,890**	**102,308**	**117,029**	**128,962**	**111,772**	**54,610**	**46,885**	**23,901**	**17,772**	**13,990**	**1,989,762**
	SUMMARY (Base + Escalation)														
		A.1.01.00.00 CPP-SP0 Project Support & Facility Authority	BCWS	78,524	86,408	73,771	74,721	74,506	80,137	24,809	26,266	23,508	23,810	24,309	2,842,674
		A.1.01.00.01 CPP-SP1 Wet SNF to Dry & SNF Consolidation	BCWS	5,680	5,695	5,814	154	0	0	0	0	0	0	0	195,090
		A.1.01.00.02 CPP-SP2 SNM Consolidation	BCWS	0	0	0	0	0	0	0	0	0	0	0	23,783
		A.1.01.00.03 CPP-SP3 SNF and Calcine Disposition	BCWS	117,933	117,061	119,515	122,572	110,792	84,706	0	0	0	0	0	2,944,840
		A.1.01.00.04 CPP-SP4 SBW to WIPP	BCWS	0	0	0	0	0	0	0	0	0	0	0	697,247
		A.1.01.00.05 CPP-SP5 Integrated Tank Farm Closure	BCWS	0	0	0	0	0	0	0	0	0	0	0	107,917
		A.1.01.00.06 CPP-SP6 Excess Facilities Disposition & D&D	BCWS	35,815	51,053	58,930	88,733	121,173	93,926	98,204	76,725	27,641	13,320	4,253	1,460,663
	Results... Totals:		**BCWS**	**237,952**	**260,216**	**258,029**	**286,180**	**306,470**	**258,770**	**123,013**	**102,990**	**51,149**	**37,130**	**28,562**	**8,272,213**

Thousands of $

SUBPROJECT PLAN

WBS: A.1.01.00.00
Title: INTEC-SP0 Project Support and Facility Authority

Subproject Mgr:	**Jack Simonds**	**Planning & Controls:**	**Robert Doolittle**
DOE-ID:		**ES&H Field Manager:**	**Corrinne Jones**
INTEC Manager:	**Richard Loos**	**Other:**	**Riley Chase**

1. WORK DESCRIPTION:

Objective

The INTEC-SP0 subproject provides Idaho Nuclear Technology and Engineering Center (INTEC) completion subprojects for High Level Waste and Spent Nuclear Fuel (SNF) with the crosscutting technical and administrative activities needed to accomplish their objectives; a core staff to maintain analytical capabilities; and Operational Safety Analysis, Criticality Safety, and Waste Generator Services support.

The scope of Subproject INTEC-SP0 Project Support and Facility Authority is the management and support services needed for Subprojects INTEC-SP1 through INTEC-SP6 to execute their work scopes toward the overall objective of the INTEC Completion Project within the Idaho Completion Project.

Included within in the INTEC-SP0 Subproject are the following Control Account work scope-related functions:

- Project Management
- Operations
- Facility maintenance
- Process maintenance
- Technical services support
- Core services support
- Capital projects
- Facility inactivation/deactivation
- DOE-ID funds.

The Project Management function includes INTEC Completion Project management and support staff, program controls, administrative, and other staff associated with the project.

Operations includes spent nuclear fuel and Process Equipment Waste/Liquid Effluent Treatment and Disposal (LET&D)/New Waste Calciner Facility (NWCF) Evaporator Tank System routine operations, sampling for High Level Waste and SNF, Newly Generated Liquid Waste (NGLW) treatment, environmental sampling, equipment decontamination, waste transfer support, tank farm configuration management, surveillances for spent fuel and High Level Waste, and other operations related support activities.

Operations is comprised of the on-going routine waste management and SNF management activities that are conducted in support of the other subprojects, such that they do not have a discrete endpoint that is independent of those subprojects.

Tank Farm Closure depends on the ability to treat the existing inventory sodium-bearing waste, as well as any newly generated liquid wastes, to empty the liquid waste storage tanks that receive waste from several sources at INTEC. Therefore, this account also includes efforts to minimize the generation of newly generated radioactive liquid waste at INTEC. Resource Conservation and Recovery Act (RCRA) Part B Permits are required for continued operation of hazardous waste treatment facilities at INTEC. Thus, it also provides for the preparation of RCRA Part B Permit applications, response to Notice of Deficiencies, and modifications to and maintenance of permits and Interim Status documents. It also includes the waste characterization needed to support RCRA permitting.

Facility maintenance provides the maintenance for INTEC facilities and includes utility services, roads, buildings and grounds maintenance, roof repair/replacement, and other non-process related maintenance activities.

Process maintenance provides preventative and corrective maintenance for those process operational systems encompassed by waste management and SNF projects and activities.

Technical services support provides the INTEC crosscutting technical support, such as analytical laboratories, waste generator services, permitting, and safety analysis, and the administration and implementation of various Environmental, Safety and Health, and Quality Assurance programs (ESH&QA) and facility authority staff.

Core services support includes life safety utility maintenance, INTEC facility fire protection, operations training core support, and INTEC ESH&QA maintenance.

Capital projects encompasses all of the projects needed in support of conducting INTEC-SP0 work scope, including facility improvements and major plant upgrades; projects needed in direct support of other subprojects are planned within the respective subproject.

Facility inactivation/deactivation provides the resources needed to inactivate non-nuclear facilities, and to deactivate nuclear facilities to cold, dark, and dry conditions, upon serving out their mission need; facilities requiring deactivation and/or RCRA closure to achieve that state are completed within INTEC-SP6.

DOE-ID funds are the funding associated with DOE-ID subcontracts and other expenses to accumulate the total EM liability costs.

2. MAJOR PRODUCTS AND DELIVERABLES:

- INTEC Completion Project management, direction, and detailed planning.
- Records Management, correspondence control and document control support.
- Quality Assurance oversight.
- New project conceptual designs and project execution plans.
- Safe interim storage of SNFs and high-level waste.
- Semi-annual safeguards random inventory of SNF in storage.
- Fuel handling operations supervision and administration.
- Routine fuel storage, inventories, repackaging and movement of fuel to provide additional storage and/or reconfiguration.
- Fuel handling operations support, including bioassays, safety equipment, vehicle, and security clearances.
- Issue and maintain INTEC integrated schedule.
- Semi-annual Material Status Inventory Reports.
- Performance Indicator Reports, Settlement Agreement annual inventory and projected receipts reports, DOE requested studies, and other management reports.
- Hydrogen, radiological, and environmental monitoring samples.
- Criticality Safety Program to meet all DOE and industry standard requirements and to provide Integrated Safety Management System implementation oversight.
- Maintaining annual Certificates of Compliance and obtaining renewal of the licenses for each SNF cask.
- Providing technical support to the National SNF Program and repository program.
- Design and fabrication of new equipment required supporting planned fuel-handling activities.

- Technical expertise for hoisting and rigging issues, including procedure development, personnel training, and rigging configuration development.
- Full compliance with applicable ESH&QA requirements that address the safety of Idaho National Engineering and Environmental Laboratory (INEEL) employees, public, property, and environment.
- 10 CFR 830 safety analysis report (SAR) renewal and upgrades.
- Complete or initiate planning and/or construction for General Plant Projects/Line Item Projects.
- Upgrades to the Tank Farm instrumentation.
- Operations of Process Equipment Waste Evaporator (PEWE) and LET&D to reduce waste volumes to Tank Farm.
- Process tank closure flush water through the NWCF Evaporator Tank System.
- Analytical laboratory services.
- Waste generator services.
- Operational safety analyses.
- Annual liquid waste reduction goals.
- Waste sampling and characterization.
- Facility and process maintenance.
- RCRA Part B permits.
- Landlord services (such as, custodial).
- Utility operations and services for facilities and processes.
- Reports to outside agencies under existing permits.

3. ESTIMATE DEVELOPMENT BASIS:

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

4. ASSUMPTIONS:

- Utilities will be planned as charge-backs on a facility square footage basis and planned globally in INTEC-SP0. Base Infrastructure includes utility services, building and grounds maintenance, roof repair/replacement, road repairs, and other non-process related maintenance activities.
- Facility upgrades will be planned as individual General Plant Projects or Line Item Capital Projects.
- General Plant Projects specific to a subproject will be planned by that subproject; others will be planned in INTEC-SP0.
- Extensive deactivation of facilities, including RCRA closure, will be planned along with D&D in INTEC-SP6. Otherwise, deactivation of facilities will be planned in INTEC-SP0, followed by D&D in INTEC-SP6. INTEC-SP6 will also plan for the surveillance and maintenance that must occur after inactivation until that time at which D&D can occur.
- Waste Calcine Facility ground water monitoring will be planned in subproject INTEC-SP3. The initial Waste Calcine Facility RCRA Post Closure Monitoring permit will be planned in INTEC-SP0, but maintenance of that permit after it is received, including the five-year updates will be planned in subproject INTEC-SP3.

- INTEC Analytical Laboratory and services will be planned in INTEC-SP0 as a fixed cost without charge to INTEC Environmental Management (EM) subproject customers; all other EM customers and Nuclear Energy (NE) customers will be charged for analytical services and must plan for those separately, not in INTEC-SP0.
- Newly Generated Liquid Waste will be treated by the sodium bearing waste treatment facility through 2010 and planned in INTEC-SP4.
- NWCF Evaporator Tank System, Process Effluent Waste Evaporator (PEWE) and/or LET&D will continue to operate in conjunction with sodium bearing waste treatment of NGLW through 2010 and will be planned in INTEC-SP0.
- Beyond 2010, a commercial treatment facility will be used to treat NGLW and will be planned in INTEC-SP0. The infrastructure and permits needed to support the commercial treatment facility will be planned in INTEC-SP4. NWCF Evaporator Tank System, PEWE and/or LET&D will continue to operate to treat NGLW in conjunction with the commercial treatment facility and will be planned in INTEC-SP0. The commercial treatment facility will be mobilized on site every five years and will operate for one year during each of those times.
- High efficiency particulate air (HEPA) filter leaching of newly generated filters will be planned in CLN-SP1 along with leaching of the backlog filters. Backlog of HEPA filters will be treated by 2007. Any newly generated filters will revert back to SP0.
- CPP-659 facility management will be turned back over to INTEC-SP0 from CLN-SP1 upon elimination of the debris treatment backlog at the end of FY 2004. Equipment decontamination operations will also return to INTEC-SP0 at that time. HEPA filter leach will remain the responsibility of CLN-SP1, but maintenance needed to support HEPA filter leach will be planned in INTEC-SP0, since it will have ownership of the facility at that time.
- High Level Waste operational support resources reduce significantly in FY 2011 and beyond due to completion of debris treatment and HEPA filter leach backlogs and treatment of NGLW by a commercial facility at that time.
- INTEC Base Infrastructure support of mixed low-level waste storage facilities CPP-1617 and CPP-1619 will be planned in INTEC-SP0. INTEC-SP6 contains the CPP-1617 RCRA activities.
- Debris treatment of newly generated debris will be planned in CLN-SP1 along with treatment of the backlog debris.
- Tank Farm transfers needed to support routine liquid waste treatment operations (i.e., NWCF Evaporator Tank System, PEWE, and LET&D) will be planned in INTEC-SP0.
- Tank Farm upgrades (e.g., corrosion coupons, valve box upgrades) will be planned in the specific subproject that the upgrade supports.
- Alternative analytical capabilities will be available in FY 2020, rendering the current INTEC Analytical Laboratories (CPP-602 and CPP-684) unnecessary at that time. INTEC-SP3 will provide calcine characterization capabilities to support characterization for waste acceptance of calcine. The repository waste acceptance criteria and design of the storage canister for SNF will deem SNF characterization unnecessary. Newly generated waste samples will meet acceptance criteria for off-site analysis.
- Projects will be executed to allow inactivation of CPP-601, -627, and -640 as early as 2012, by providing for alternative analytical laboratory waste collection (new lines routed to CPP-641 Westside Waste Holdup Tanks or local collection in satellite accumulation areas), atmospheric protection system ventilation, and chemical transfer lines.
- Core Materials Analysis/Corrosion program will be planned in INTEC-SP0.

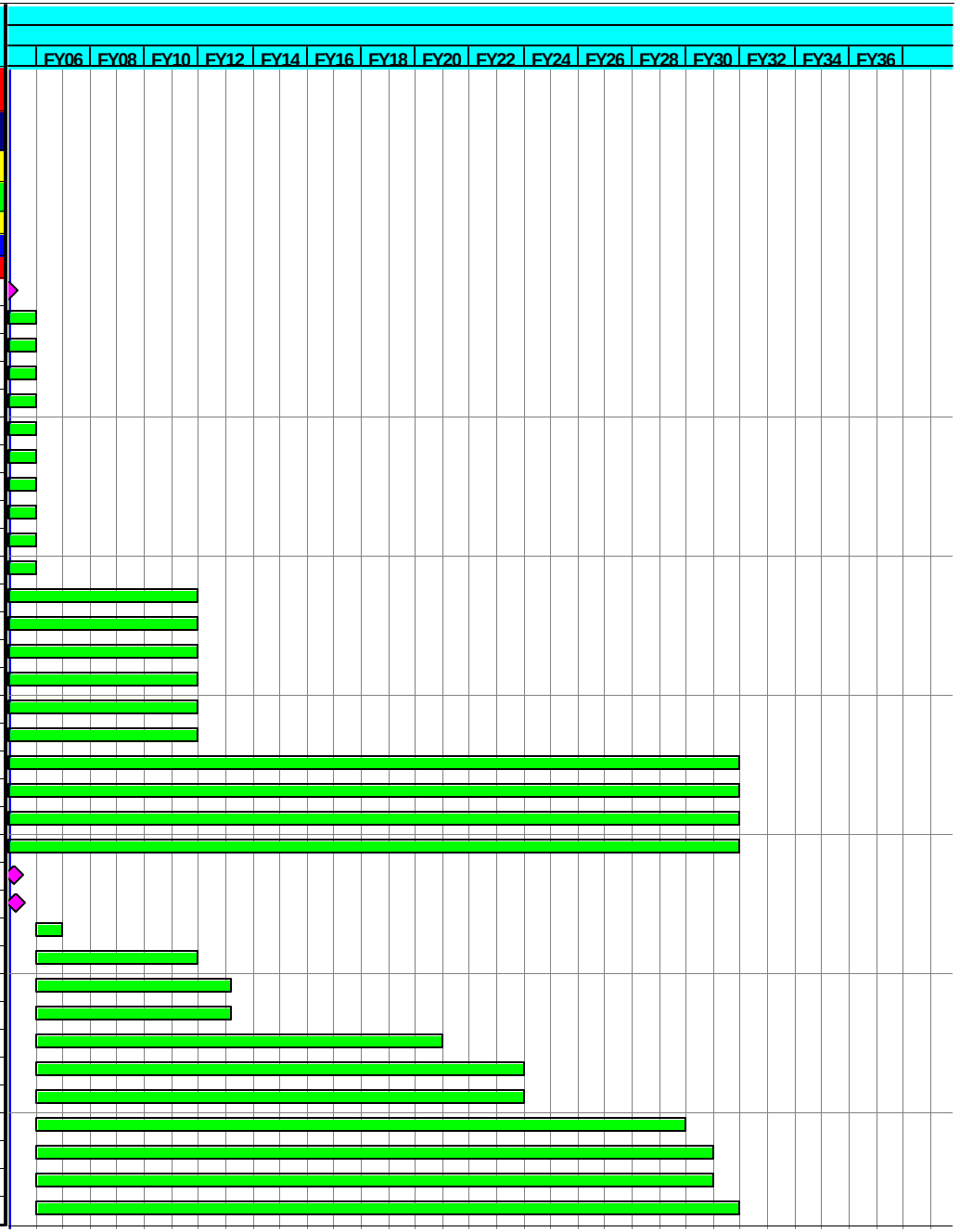
- A decision will be made to run the Calciner by 2003. As a result, the remaining near-term closure actions will be terminated (i.e., none will take place in FY 2004) and the Closure Plan revised. The Closure Plan revision will be planned in INTEC-SP4. Closure of the Calciner portion of CPP-659 only will proceed in 2012 and will be planned in INTEC-SP0; the balance of the facility will continue to operate through FY 2035, after which, closure will begin. Final closure of CPP-659 will be planned in INTEC-SP6.
- RCRA Permitting for INTEC facilities will be planned in the INTEC Completion Project, however, the core permitting management will be planned in the Idaho Completion Project under INTEC-SP2.
- SP0 maintains the operational oversight and authorization basis for all buildings through operations, inactivation, deactivation (as necessary) and D&D efforts.
- RCRA permitting activities for existing operational facilities are planned in INTEC-SP0 (with the exception of the RCRA permit for storage of calcine in the Calcine Solids Storage Facility, which is planned in INTEC-SP3); RCRA permits for new facilities will be planned within the associated subproject through facility operation; INTEC-SP0 will plan for permit maintenance post-operations, except for maintenance of closure permits.
- SARs for existing operational facilities are planned in INTEC-SP0. SARs for new facilities will be planned within the associated subproject through facility operation; INTEC-SP0 will plan for SAR maintenance post-operations.
- Routine INTEC Completion Project Operational Safety Analysis Support (e.g., unreviewed safety question screenings and evaluations) will be planned in INTEC-SP0.
- Consolidated lab is not part of Performance Management Plan and therefore not to be planned in Life-Cycle Baseline.
- Subprojects must plan for Bin 3 maintenance of subproject specific processes (including process related equipment and janitorial services).
- Facilities and infrastructure will be maintained as long as they are occupied and/or in service.
- Utility activities provided 24 hours a day, 365 days a year include: steam and condensate distribution systems; electrical distribution; underground fire water; de-ionized water; plant breathing and compressed air; sanitary waste system; service waste system; and cathodic protection.
- Idaho Settlement Agreement milestones for SNF and HLW will be met as currently negotiated.
- DOE-owned SNF from the INEEL will be sent to the Yucca Mountain monitored geologic repository beginning in FY 2010.
- Each of the SNF storage facilities will be maintained in accordance with its Nuclear Regulatory Commission (NRC) license requirements or its approved authorization agreement as applicable until the spent nuclear fuel is removed.
- NRC regulations for the Fort St. Vrain and CPP-1774 TMI-2 ISFSIs will not change significantly, and the annual licensing fees will remain approximately the same as charged in FY 2002. The NRC Licensed facilities will be re-licensed at the end of their initial license by this subproject.
- The privatized Spent Nuclear Fuel Dry Storage Project will commence operations in December 2005 with routine transfers of SNF from Irradiated Fuel Storage Facility (IFSF) and CPP-749.
- The Spent Nuclear Fuel Dry Storage Project will be turned over to the management and operations contractor for its use and operation on April 10, 2010.
- All DOE-owned SNF will be removed from CPP-666 by the end of FY 2012 with a majority of the SNF being relocated to the IFSF facility (EBR II and Navy fuel return to Argonne National Laboratory-West [ANL-W] and Expanded Core Facility respectively).
- Each SNF facility will be transitioned to INTEC-SP6 for final disposition within one year of the final removal of SNF from the facility. Deactivation/inactivation of the facility will take place in INTEC-SP0 for CPP-749, CPP-2707, and IFSF.

- The Fort St. Vrain NRC license agreement requires that D&D of the Fort St. Vrain Independent Spent Fuel Storage Installation (ISFSI) commence within one year of the removal of the last shipment of SNF from the facility.
- RCRA closure of Fort St. Vrain, CPP-1774, and Spent Nuclear Fuel Dry Storage Project will take place in INTEC-SP6.
- Fort St. Vrain Safeguards and Security is funded in INTEC-SP0 under EM rather than NE as is the case for INEEL Safeguards and Security.
- The foreign research reactor receipt of SNF program at the INEEL will complete in FY 2009 in INTEC-SP0. There are no paying countries shipping SNF to the INEEL after FY 2003.
- The domestic research reactor receipts and shipment SNF program at the INEEL will continue through FY 2028 as planned in INTEC-SP0 with interim storage in IFSF.
- The base Criticality Safety Program will be included in INTEC-SP0.
- The DOE-ID held funding for NRC licenses will be included in INTEC-SP0.
- Safeguards and Security is not EM funded, however, maintenance of their facilities will be planned in INTEC-SP0 as a charge-back on a square footage basis.

5. SCIENCE AND TECHNOLOGY NEEDS

Science and Technology Need Number	Science and Technology Need Description
None Identified	

Activity ID	Activity Description	Early Start	Early Finish
INEEL			
EM Project			
INTEC Completion			
INTEC Completion			
CPP-SP0 Project Support & Facility Authority			
CPP-SP0 Project Management			
CPP-SP0 Project Management			
0LBEG001	Lifecycle FY2004 Start Milestone	01OCT03*	
0LCADJ01	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
0LHLW127	NWCF/DF Project Support	01OCT03	30SEP04
0LS11011	SNF Program Direction FY04	01OCT03	30SEP04
0LS12202	SNF Program QA Direction FY04	01OCT03	30SEP04
0LS13040	New SNF GPP & CE Projects FY04	01OCT03	30SEP04
0LS42015	CPP-749 Project Management FY04	01OCT03	30SEP04
0LS47015	IFSF Maintained Facility Mgmnt & Admin FY04	01OCT03	30SEP04
0LS68207	INTEC SNF Management & Administration FY04	01OCT03	30SEP04
0LS68218	Fort St Vrain ISFSI Project Mgmnt FY04	01OCT03	30SEP04
0LS68223	CPP-1774 ISFSI Project Mgt FY04	01OCT03	30SEP04
0LHLW052	TF/TPW Project Management Support	01OCT03	30SEP10
0LHLW181	Analytical Lab Administration	01OCT03	30SEP10
0LHLW244	HLW PBS Integration	01OCT03	30SEP10
0LHLW247	High Level Waste Work Control	01OCT03	30SEP10
0LHLW250	Scheduling	01OCT03	30SEP10
0LHLW265	HLW Program Administration	01OCT03	30SEP10
0LB350	Capital Proj Infra Administration & Planning	01OCT03	30SEP30
0LINF005	PBS Management	01OCT03	30SEP30
0LINF033	Project Management and Support	01OCT03	30SEP30
0LINF037	Facility Upgrades Planning	01OCT03	30SEP30
0LS11000	DOE-ID Iss Projectd Recpt Rept to State (annual)		24DEC03*
0LS11001	DOE-ID Iss Actual Recpt Rept to State (annual)		15JAN04*
0LCADJ03	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
0LHLW128	NWCF/DF Project Support	01OCT04	30SEP10
0LS31004	SNF 103 Support	01OCT04*	23DEC11
0LS32001	CPP-666 Management	01OCT04*	23DEC11
0LS42201	CPP-749 Management	01OCT04*	30SEP19
0LS40201	FSV Management	01OCT04*	30SEP22
0LS47001	IFSF Management	01OCT04*	30SEP22
0LS49201	CPP 1774 Management	01OCT04*	30SEP28
0LS11200	SNF Program Direction & Integration	01OCT04*	28SEP29
0LS12200	SNF Program IPA & QA Direction	01OCT04*	28SEP29
0LS66200	QA Oversight of NRC Facilities (SNF-102)	01OCT04*	30SEP30



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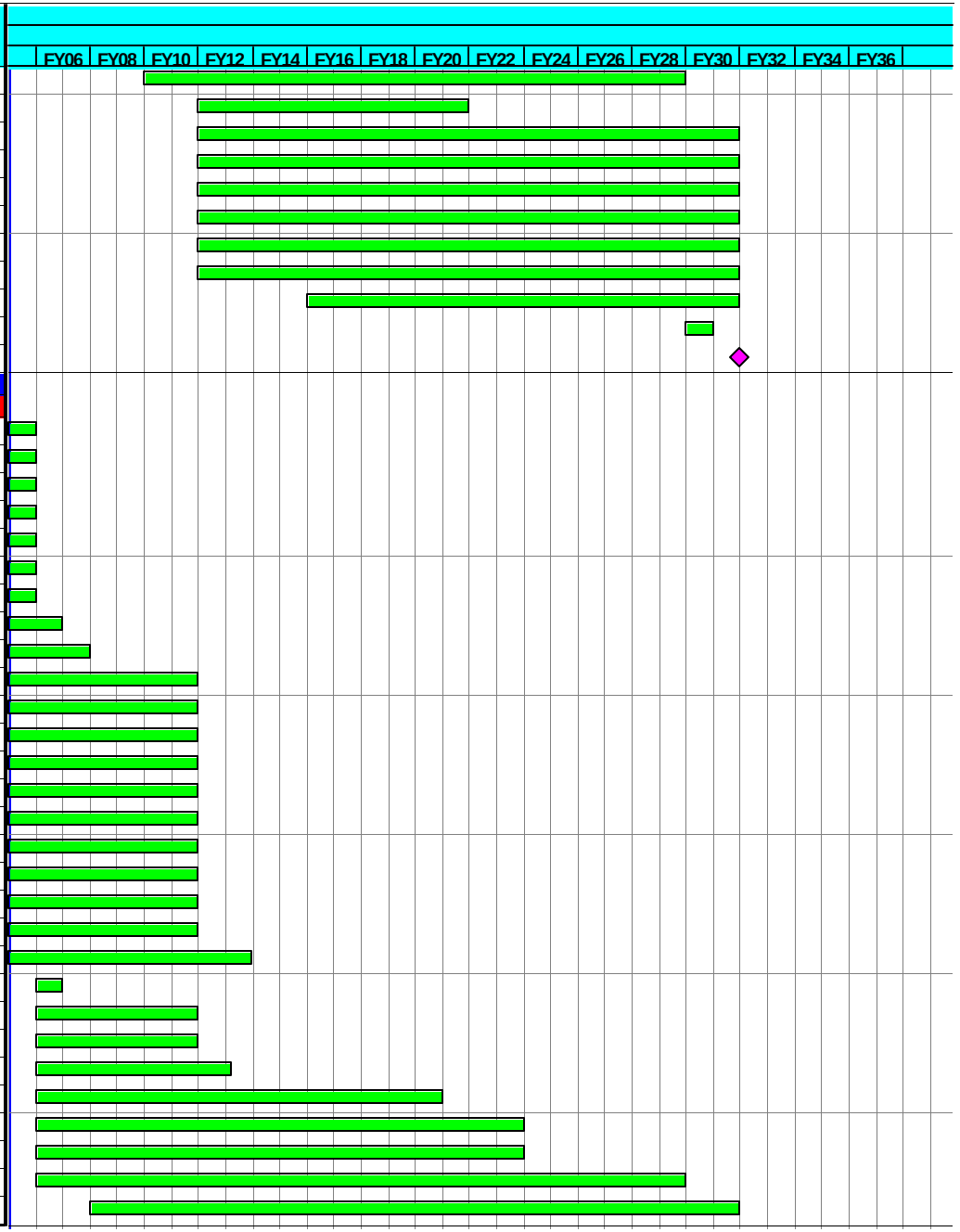
Activity ID	Activity Description	Early Start	Early Finish
0LS13200	New Project Definition & Support	01OCT08*	29SEP28
0LHLW184	Analytical Lab Administration NGLW Treat.	01OCT10	30SEP20
0LHLW053	TF/TPW Project Management Support NGLW Treat.	01OCT10	30SEP30
0LHLW129	NWCF/DF Project Support NGLW Treat.	01OCT10	30SEP30
0LHLW245	HLW PBS Integration NGLW Treat.	01OCT10	30SEP30
0LHLW248	High Level Waste Work Control NGLW Treat.	01OCT10	30SEP30
0LHLW251	Scheduling Post 2010 NGLW Treat.	01OCT10	30SEP30
0LHLW268	HLW Program Administration NGLW Treat.	01OCT10	30SEP30
0LCADJ05	FY15 to FY30 Contingency Adjustment (+75% FY05)	01OCT14*	30SEP30
0LS13210	New Project Definition & Support FY29	02OCT28*	28SEP29
0LS12204	SNF Program Complete		30SEP30
CPP-SP0 Operations			
CPP-SP0 Operations			
0LCADJ07	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
0LHLW115	NWCF/DF Ops Support and Surveillance	01OCT03	30SEP04
0LS32015	CPP-666 General Fuel Handling Support FY04	01OCT03	30SEP04
0LS42014	CPP-749 General Stabilization FY04	01OCT03	30SEP04
0LS47014	IFSF General Fuel Handling Support FY04	01OCT03	30SEP04
0LS68201	SNF Inventory Issues & Laundry Svcs FY04	01OCT03	30SEP04
0LS68213	Fort St Vrain ISFSI Operations FY04	01OCT03	30SEP04
0LHLW082	Tank Farm Configuration Management	01OCT03	30SEP05
0LHLW232	Off Gas Emissions Sampling	01OCT03	29SEP06
0LHLW004	Waste Transfers Support	01OCT03	30SEP10
0LHLW010	LET&D Operations	01OCT03	30SEP10
0LHLW013	Off Gas Monitoring	01OCT03	30SEP10
0LHLW016	Off Gas Operations	01OCT03	30SEP10
0LHLW019	PEWE Operations	01OCT03	30SEP10
0LHLW046	TF/TPW Ops Support and Surveillance	01OCT03	30SEP10
0LHLW073	HLLWE Operation	01OCT03	30SEP10
0LHLW221	Environmental Sampling	01OCT03	30SEP10
0LHLW235	RCRA Liquid Waste Sampling	01OCT03	30SEP10
0LHLW238	Sample Management Coordination	01OCT03	30SEP10
0LER005	CPP-601 Deep Tank Operations	01OCT03	28SEP12
0LCADJ09	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
0LHLW075	NWCF/DF Equipment Decontamination	01OCT04*	30SEP10
0LHLW118	NWCF/DF Ops Support and Surveillance	01OCT04	30SEP10
0LS32002	CPP-666 Operations	01OCT04*	23DEC11
0LS42202	CPP-749 Operations	01OCT04*	30SEP19
0LS40202	FSV Operations	01OCT04*	30SEP22
0LS47002	IFSF Operations	01OCT04*	30SEP22
0LS49202	CPP 1774 Operations	01OCT04*	30SEP28
0LHLW233	Off Gas Emissions Sampling	02OCT06	30SEP30



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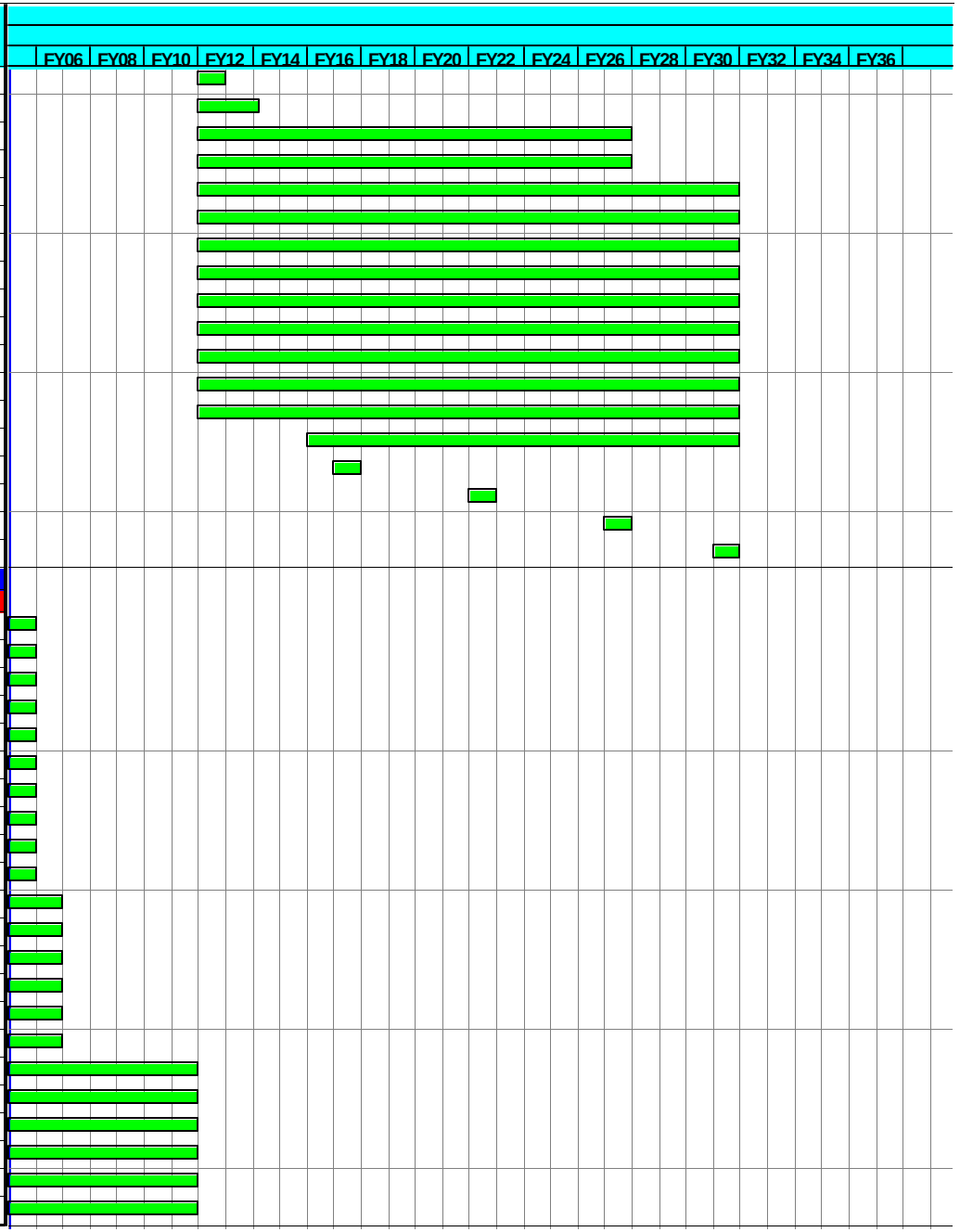
0LHLW301	NGLW Treatment Post 2010	01OCT10*	30SEP11
0LHLW109	HLLWE Operation Post 2010 NGLW Treatment	01OCT10	17DEC12
0LHLW025	LET&D Operations	01OCT10	30SEP26
0LHLW034	PEWE Operations Post 2010 NGLW Treatment	01OCT10	30SEP26
0LHLW005	Waste Transfers Support NGLW Treat.	01OCT10	30SEP30
0LHLW014	Off Gas Monitoring Post 2010 NGLW Treatment	01OCT10	30SEP30
0LHLW017	Off Gas Operations Post 2010 NGLW Treatment	01OCT10	30SEP30
0LHLW047	TF/TPW Ops Support and Surveillance NGLW Treat.	01OCT10	30SEP30
0LHLW077	NWCF/DF Equip. Decontamination NGLW Treat.	01OCT10	30SEP30
0LHLW151	NWCF/DF Ops Support and Surveillance NGLW Treat.	01OCT10	30SEP30
0LHLW236	RCRA Liquid Waste Sampling NGLW Treat.	01OCT10	30SEP30
0LHLW239	Sample Management Coordination NGLW Treat.	01OCT10	30SEP30
0LHLW68	Process Waste Technology and Modeling NGLW Treat	01OCT10	30SEP30
0LCADJ11	FY15 to FY30 Contingency Adjustment (+75% FY05)	01OCT14*	30SEP30
0LHLW304	NGLW Treatment Post 2010	01OCT15*	30SEP16
0LHLW307	NGLW Treatment Post 2010	01OCT20*	30SEP21
0LHLW310	NGLW Treatment Post 2010	01OCT25*	30SEP26
0LHLW313	NGLW Treatment Post 2010	01OCT29*	30SEP30
CPP-SP0 Facility Maintenance			
CPP-SP0 Facility Maintenance			
0LB005	CPP-1607 Automatic Foam Fire Prot. Bldg	01OCT03	30SEP04
0LB012	CPP-1617 Waste Staging Facility	01OCT03	30SEP04
0LB015	CPP-1630 Fire Protection Bldg	01OCT03	30SEP04
0LB105	CPP-664 QA Office Building	01OCT03	30SEP04
0LB126	CPP-693 ICPP Warehouse	01OCT03	30SEP04
0LB127	CPP-694 NWCF Organic Solvent Disposal	01OCT03	30SEP04
0LB128	CPP-695 Quality X-Ray Facility	01OCT03	30SEP04
0LB137	CPP-TB-1 Carpenter Shop	01OCT03	30SEP04
0LB142	CPP-TR-19 Office Trailer	01OCT03	30SEP04
0LCADJ13	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
0LB143	CPP-TR-20 FPR Office Trailer	01OCT03	29SEP05
0LB144	CPP-TR-35 Office Trailer	01OCT03	29SEP05
0LB026	CPP-1647 Demineralizer Waste Neutralize	01OCT03	30SEP05
0LB092	CPP-650 Breathing Air Compressor	01OCT03	30SEP05
0LB110	CPP-672 Rad-Con Storage	01OCT03	30SEP05
0LB117	CPP-683 Breathing Air Charger	01OCT03	30SEP05
0LB001	CPP-1603 Landlord Storage Facility	01OCT03	30SEP10
0LB011	CPP-1616 Glass Shop Storage	01OCT03	30SEP10
0LB068	CPP-621 Chemical Storage Pumphouse	01OCT03	30SEP10
0LB090	CPP-648 Sludge Tank Control House	01OCT03	30SEP10
0LB119	CPP-685 Safeguard Data Acquisition	01OCT03	30SEP10
0LB138	CPP-TB-3 FPR Eastside Guardhouse	01OCT03	30SEP10



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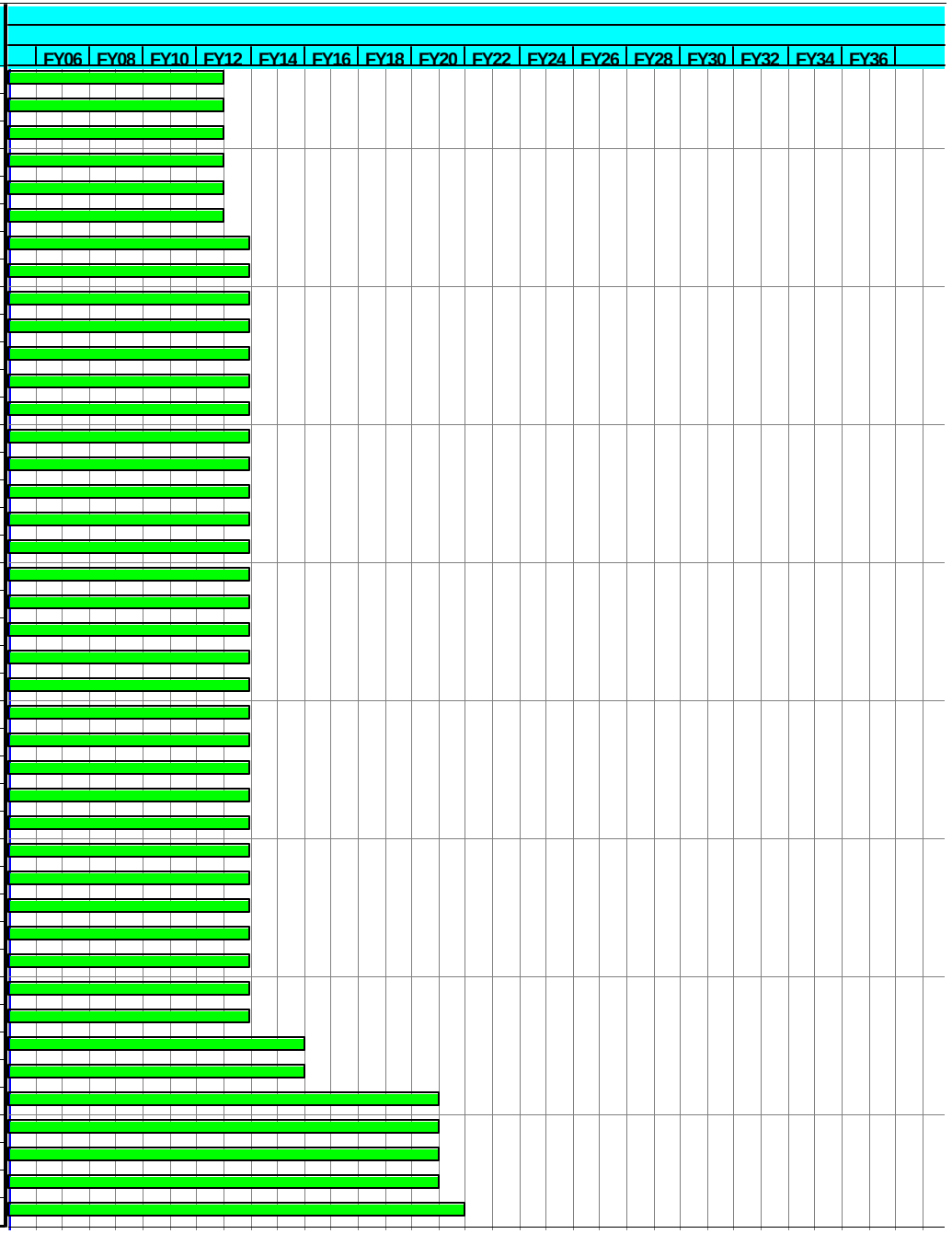
Activity ID	Activity Description	Early Start	Early Finish
0LB140	CPP-TB-5 Unloading Station	01OCT03	29SEP11
0LB009	CPP-1612 Pond 326 Pumphouse	01OCT03	30SEP11
0LB018	CPP-1635 Haz. Chemical Storage Facility	01OCT03	30SEP11
0LB098	CPP-656 Office Building	01OCT03	30SEP11
0LB108	CPP-668 Engineering Support Offices	01OCT03	30SEP11
0LB116	CPP-682 S&H Emergency Equipment Shop	01OCT03	30SEP11
0LB008	CPP-1611 Pond 327 Pumphouse	01OCT03	27SEP12
0LB024	CPP-1644 Bulk Chemical Unloading	01OCT03	27SEP12
0LB038	CPP-1672 Access Control Building (TF)	01OCT03	27SEP12
0LB042	CPP-1677 Change Room	01OCT03	27SEP12
0LB045	CPP-1682 Kerosene Pumphouse	01OCT03	27SEP12
0LB049	CPP-601 Fuel Process Building	01OCT03	27SEP12
0LB064	CPP-618 Tank Farm Measure/Control	01OCT03	27SEP12
0LB065	CPP-619 Waste Storage Controlhouse	01OCT03	27SEP12
0LB066	CPP-620 Chem.Engr. Lab High Bay	01OCT03	27SEP12
0LB067	CPP-620A Annex	01OCT03	27SEP12
0LB069	CPP-622 Tank Farm Instrument House	01OCT03	27SEP12
0LB070	CPP-623 Tank Farm Instrument House	01OCT03	27SEP12
0LB073	CPP-628 Tank Farm Controlhouse	01OCT03	27SEP12
0LB076	CPP-632 Instrument House, T F Area	01OCT03	27SEP12
0LB077	CPP-634 Waste Station Wm-185	01OCT03	27SEP12
0LB078	CPP-635 Waste Stations Wm-187-188	01OCT03	27SEP12
0LB079	CPP-636 Waste Stations Wm-189/-190	01OCT03	27SEP12
0LB080	CPP-637 Process Improvement Fac.	01OCT03	27SEP12
0LB081	CPP-638 Waste Station Wm-180	01OCT03	27SEP12
0LB084	CPP-641 Waste Holdup Pumphouse	01OCT03	27SEP12
0LB107	CPP-666 FDP/FAST Facility	01OCT03	27SEP12
0LB132	CPP-699 Training/Prod. Office Bldg.	01OCT03	27SEP12
0LB134	CPP-T-2 Temporary Storage Building	01OCT03	27SEP12
0LB135	CPP-T-3 Temporary Storage Building	01OCT03	27SEP12
0LB352A	CPP-627 Remote Analytical Fac	01OCT03	27SEP12
0LB353	CPP-640 Headend Process Plant	01OCT03	27SEP12
0LB033	CPP-1659 Contaminated Equip Maint. Bldg	01OCT03	28SEP12
0LER009	CPP-601/627/640 Surveillance and Maintenance	01OCT03	28SEP12
0LER013	CPP-691 FPF Surveillance and Maintenance	01OCT03	28SEP12
0LB096	CPP-654 Receiving Warehouse/Offices	01OCT03	30SEP14
0LB354	CPP-642 Hot Waste Pumphouse	01OCT03	30SEP14
0LB010	CPP-1615 Equipment Building-7th Bin Set	01OCT03	30SEP19
0LB027	CPP-1649 Instr. Storage & Maint. Fac.	01OCT03	30SEP19
0LB043	CPP-1678 Contractors Lunch Room	01OCT03	30SEP19
0LB131	CPP-698 MK Offices/Warehouse	01OCT03	30SEP19
0LB030	CPP-1653 Subcontractor's Warehouse	01OCT03	30SEP20



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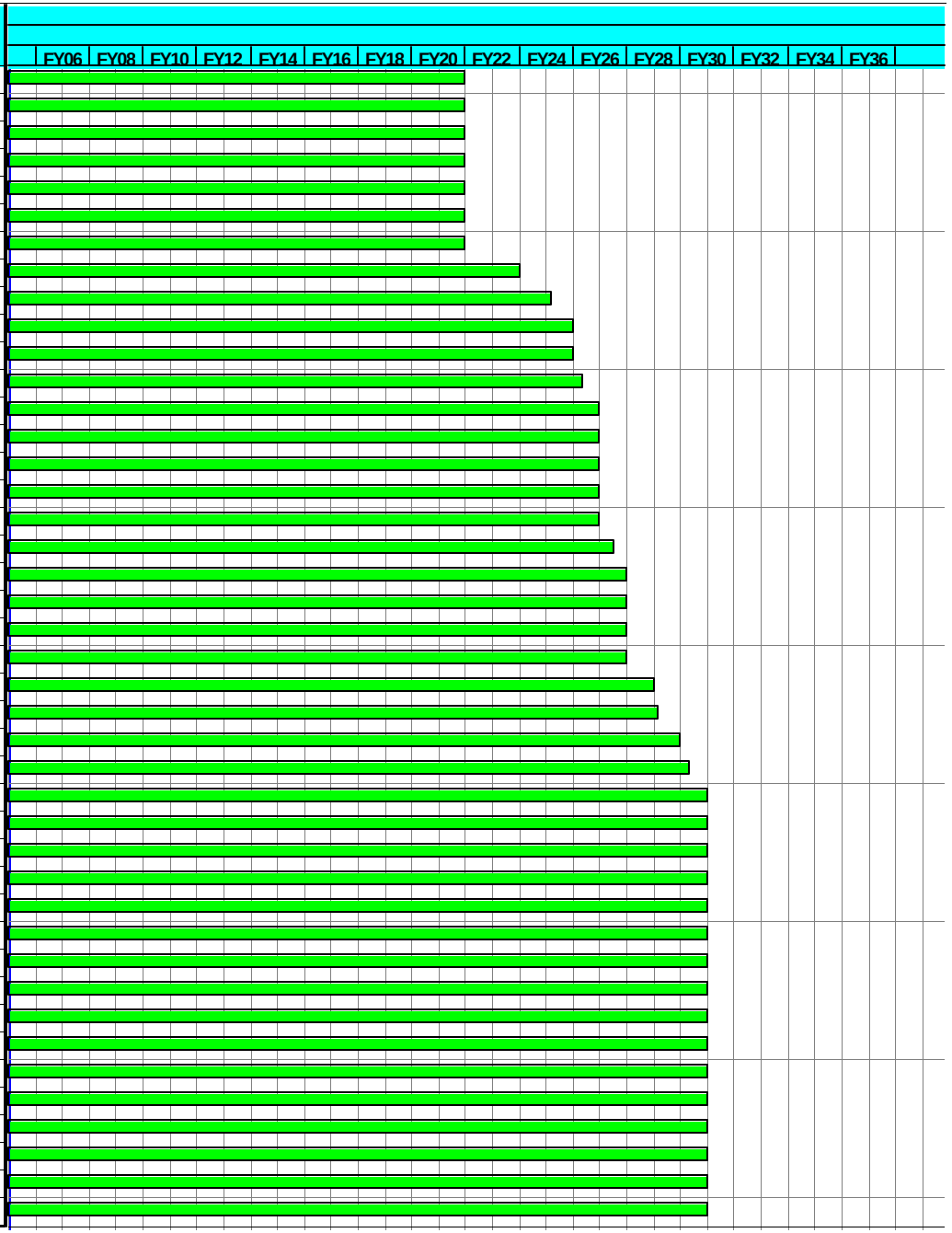
Activity ID	Activity Description	Early Start	Early Finish
0LB034	CPP-1662 Remote Insp. Engr. Facility	01OCT03	30SEP20
0LB035	CPP-1663 Security & Fire Prot. Support	01OCT03	30SEP20
0LB036	CPP-1666 Engineering Support Office	01OCT03	30SEP20
0LB050	CPP-602 Laboratory/Offices Bldg	01OCT03	30SEP20
0LB075	CPP-630 Safety/Spectrometry	01OCT03	30SEP20
0LB101	CPP-660 Chem. & Haz. Matl. Storage	01OCT03	30SEP20
0LB118	CPP-684 Remote Analytical Lab	01OCT03	30SEP20
0LB051	CPP-603 Wet & Dry Fuel Storage Fac.	01OCT03	29SEP22
0LB111	CPP-673 Service Bldg. 6th Bin Set	01OCT03	30NOV23
0LB028	CPP-1650 Training Support Facility	01OCT03	30SEP24
0LB029	CPP-1651 Operations Training Facility	01OCT03	30SEP24
0LB089	CPP-647 Instr. Bldg 3rd Bin Set	01OCT03	06FEB25
0LB019	CPP-1636 Warehouse	01OCT03	30SEP25
0LB020	CPP-1637 FPR Weld Fab Shop	01OCT03	30SEP25
0LB021	CPP-1638 Temporary Waste Storage Facility	01OCT03	30SEP25
0LB041	CPP-1676 Oil Hazardous Materials Bldg.	01OCT03	30SEP25
0LB125	CPP-692 Waste Stack Monitor System	01OCT03	30SEP25
0LB088	CPP-646 Instr. Bldg 2nd Bin Set	01OCT03	02APR26
0LB013	CPP-1618 Liquid Eff. Treat. Disp. Bldg.	01OCT03	30SEP26
0LB052	CPP-604 Rare Gas Plant/Waste Bldg	01OCT03	30SEP26
0LB053	CPP-605 Blower Building	01OCT03	30SEP26
0LB091	CPP-649 Atmospheric Protection System	01OCT03	30SEP26
0LB071	CPP-626 Change Room	01OCT03	30SEP27
0LB082	CPP-639 Instrumentation Bldg Bin Set 1	01OCT03	07DEC27
0LB006	CPP-1608 Contaminated Equip. Storage	01OCT03	28SEP28
0LB099	CPP-658 Instr. Bldg 4th Bin Set	01OCT03	05FEB29
0LB007	CPP-1610 Salt Pit Control House	01OCT03	27SEP29
0LB016	CPP-1631 Production Computer Support	01OCT03	27SEP29
0LB017	CPP-1634 Technology Dev. Facility	01OCT03	27SEP29
0LB025	CPP-1646 Anti-C Safety Handling	01OCT03	27SEP29
0LB031	CPP-1656 Warehouse	01OCT03	27SEP29
0LB037	CPP-1671 Protective Force Support Fac.	01OCT03	27SEP29
0LB039	CPP-1673 Utility Control Center	01OCT03	27SEP29
0LB040	CPP-1674 Central Alarm Station	01OCT03	27SEP29
0LB044	CPP-1681 Box Staging Area	01OCT03	27SEP29
0LB046	CPP-1683 Waste Operations Control Room	01OCT03	27SEP29
0LB048	CPP-1686 Access Control Facility	01OCT03	27SEP29
0LB054	CPP-606 Service Bldg Powerhouse	01OCT03	27SEP29
0LB056	CPP-609 Cold Waste Facility Office	01OCT03	27SEP29
0LB057	CPP-611 Water Well #1 Pumphouse	01OCT03	27SEP29
0LB058	CPP-612 Water Well #2 Pumphouse	01OCT03	27SEP29
0LB059	CPP-613 Substation #10	01OCT03	27SEP29



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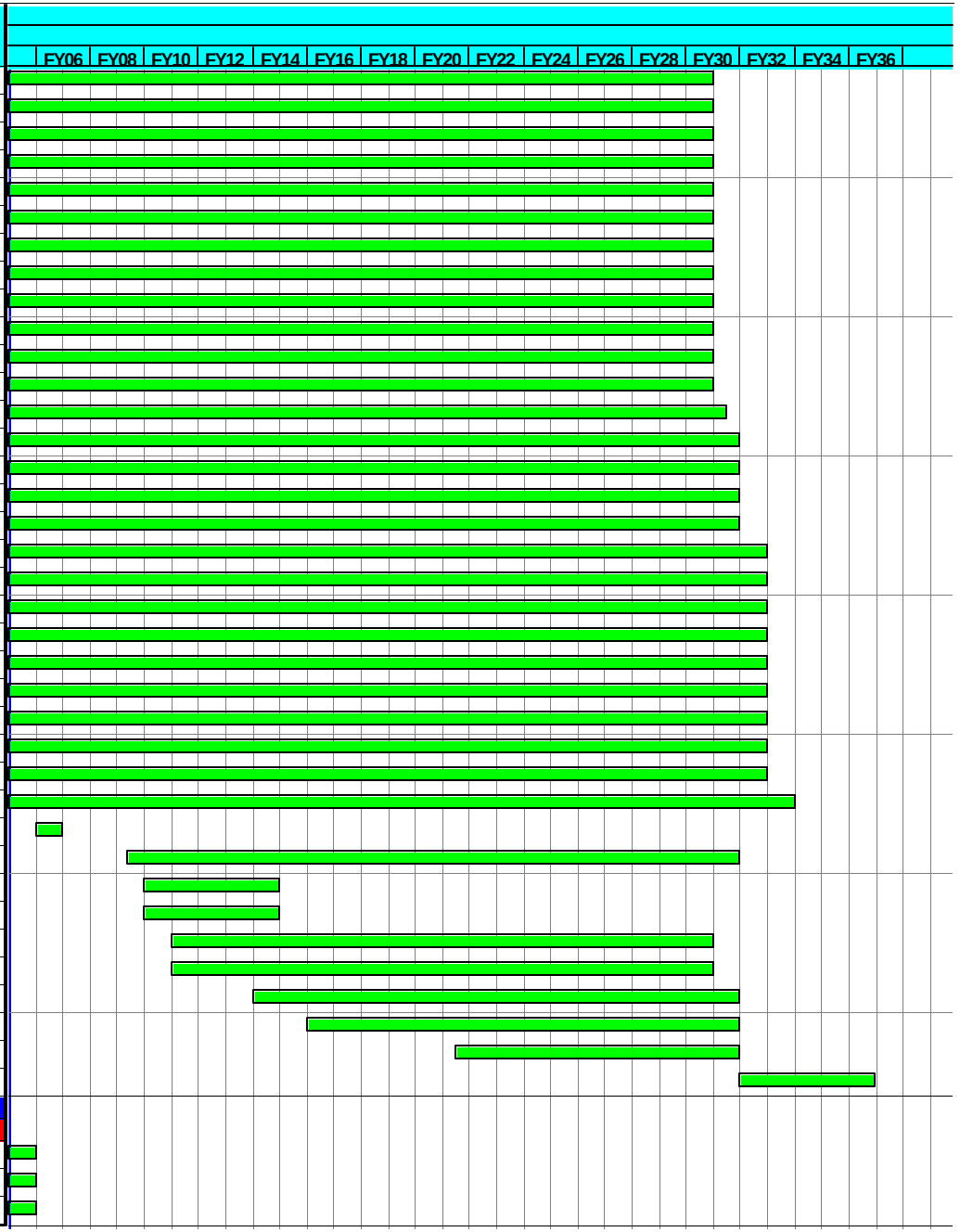
Activity ID	Activity Description	Early Start	Early Finish
0LB060	CPP-614 Diesel Engine Pumphouse	01OCT03	27SEP29
0LB062	CPP-616 Emergency Air Compressor	01OCT03	27SEP29
0LB087	CPP-645 Office Building	01OCT03	27SEP29
0LB094	CPP-652 Cafeteria/Offices	01OCT03	27SEP29
0LB095	CPP-653 Waste Handling Facility	01OCT03	27SEP29
0LB097	CPP-655 Craft Shop/Warehouse	01OCT03	27SEP29
0LB102	CPP-661 Guardhouse & VMF-2	01OCT03	27SEP29
0LB103	CPP-662 Maintenance/Fab Shop	01OCT03	27SEP29
0LB130	CPP-697 East Guardhouse & VMF	01OCT03	27SEP29
0LB002	CPP-1604 Office Building	01OCT03	28SEP29
0LB003	CPP-1605 Engineering Support Building	01OCT03	28SEP29
0LB004	CPP-1606 Plant Support Warehouse	01OCT03	28SEP29
0LB109	CPP-671 Service Building - 5th Bin Set	01OCT03	28MAR30
0LB014	CPP-1619 Haz Chem/Rad Waste Fac.	01OCT03	30SEP30
0LB100	CPP-659 New Waste Calcine Facility	01OCT03	30SEP30
0LB104	CPP-663 Maintenance/Crafts/Whse Bldg	01OCT03	30SEP30
0UNF009	Custodial	01OCT03	30SEP30
0LB022	CPP-1642 Fire Pumphouse	01OCT03	30SEP31
0LB023	CPP-1643 Fire Pumphouse	01OCT03	30SEP31
0LB047	CPP-1684 Standby Generator Facility	01OCT03	30SEP31
0LB061	CPP-615 Waste Water Treatment Plant	01OCT03	30SEP31
0LB086	CPP-644 Substation #20 Emer. Power	01OCT03	30SEP31
0LB112	CPP-674 UREP Substation #40	01OCT03	30SEP31
0LB113	CPP-675 UREP Substation #30	01OCT03	30SEP31
0LB114	CPP-677 UREP Load Center #2	01OCT03	30SEP31
0LB115	CPP-679 Tent Fabrication Facility	01OCT03	30SEP31
0UNF021	Roads and Grounds	01OCT03	30SEP32
0LCADJ15	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
0LB375	CPP-659C NGLW Facility	14FEB08	30SEP30
0LB373	CPP-659A MACT Facility	22SEP08	30SEP13
0LB374	CPP-659B SBW Calcine Packaging Facility	22SEP08	30SEP13
0LB370	SNFDSP Facility	01OCT09*	28SEP29
0LB371	SNFDSP Modular Addition	01OCT09*	28SEP29
0LB376	Infrastructure $25M Min-Safe Requirement	01OCT12*	30SEP30
0LCADJ16	FY15 to FY30 Contingency Adjustment (+75% FY05)	01OCT14*	30SEP30
0LB372	Calcine Retrieval/Packaging Facility	01APR20*	30SEP30
0LB378	Infrastructure $25M Min-Safe Requirement	01OCT30	28SEP35
CPP-SP0 Process Maintenance			
CPP-SP0 Process Maintenance			
0LCADJ17	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
0LHLW121	NWCF Operations Maintenance	01OCT03	30SEP04
0LHLW400	Analytical Lab Annual Equipment FY04	01OCT03	30SEP04



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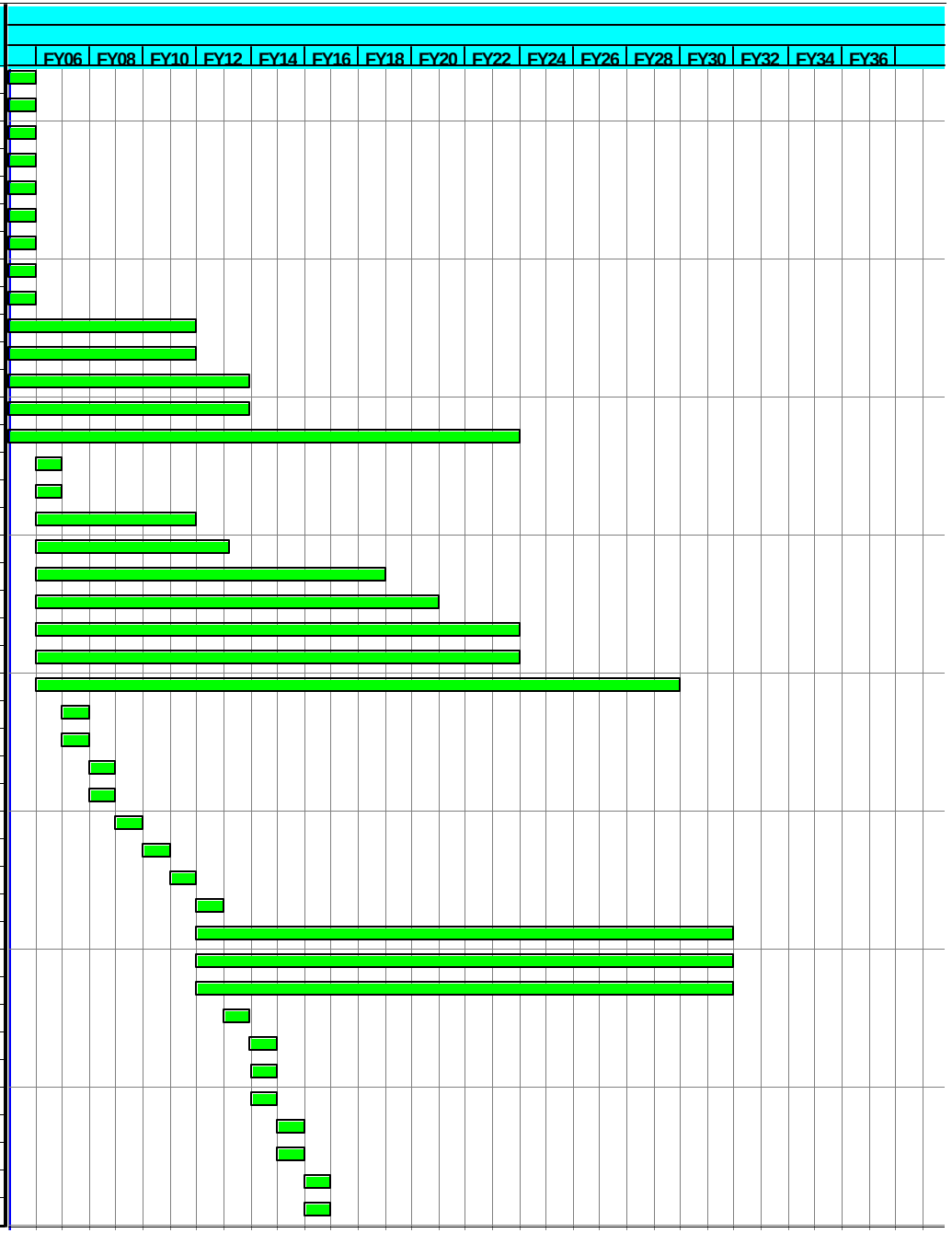
Activity ID	Activity Description	Early Start	Early Finish
0LHLW438	Spare HLLWE Reboiler and Cond (CE) Install	01OCT03	30SEP04
0LHLW440	PEWE Spare Reboiler (Evaporator Tube) Inst	01OCT03	30SEP04
0LS32007	CPP-666 Utilities & Physical Facility FY04	01OCT03	30SEP04
0LS42013	CPP-749 Structural-Mech Systems FY04	01OCT03	30SEP04
0LS47011	IFSF Structural & Mechanical FY04	01OCT03	30SEP04
0LS68206	INTEC SNF Work Control & Monitoring FY04	01OCT03	30SEP04
0LS68212	CPP-2707 Maintained Facility FY04	01OCT03	30SEP04
0LS68217	Fort St Vrain ISFSI Facility Maint FY04	01OCT03	30SEP04
0LS72004	CPP-1774 (TMI-2) Facility Maintenance FY04	01OCT03	30SEP04
0LHLW040	Liquid Waste Management Maintenance	01OCT03	30SEP10
0LHLW187	HLW Pretreatment Support Maintenance	01OCT03	30SEP10
0LHLW271	HLW Program Maintenance	01OCT03	28SEP12
0LHLW277	Facilities Support	01OCT03	28SEP12
0LER025	CPP-603 S&M	01OCT03	30SEP22
0LCADJ18	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
0LHLW402	Analytical Lab Annual Equipment FY05	01OCT04	30SEP05
0LHLW122	NWCF Operations Maintenance	01OCT04	30SEP10
0LS32004	CPP-666 Maintained Facility	01OCT04*	23DEC11
0LS68224	CPP-2707 Maintained Facility	01OCT04	29SEP17
0LS42200	CPP-749 Maintained Facilities	01OCT04*	30SEP19
0LS40200	FSV Maintained Facilities	01OCT04*	30SEP22
0LS47004	IFSF Maintained Facilities	01OCT04*	03OCT22
0LS49204	CPP 1774 Maintained Facility	01OCT04*	30SEP28
0LHLW404	Analytical Lab Annual Equipment FY06	03OCT05	29SEP06
0LHLW442	PEWE Spare Flash Column Procure	03OCT05*	29SEP06
0LHLW406	Analytical Lab Annual Equipment FY07	02OCT06	28SEP07
0LHLW408	PEWE Spare Flash Column Inst	02OCT06	28SEP07
0LHLW410	Analytical Lab Annual Equipment FY08	01OCT07	30SEP08
0LHLW412	Analytical Lab Annual Equipment FY09	01OCT08	30SEP09
0LHLW414	Analytical Lab Annual Equipment FY10	01OCT09	30SEP10
0LHLW416	Analytical Lab Annual Equipment FY11	01OCT10	30SEP11
0LHLW041	Liquid Waste Management Maintenance NGLW Treat.	01OCT10	30SEP30
0LHLW154	NWCF Operations Maintenance NGLW Treat.	01OCT10	30SEP30
0LHLW188	HLW Pretreatment Support Maintenance NGLW Treat.	01OCT10	30SEP30
0LHLW418	Analytical Lab Annual Equipment FY12	03OCT11	28SEP12
0LST009	CPP-767 666 FAST Stack Inactivation	28SEP12	27SEP13
0LHLW420	Analytical Lab Annual Equipment FY13	01OCT12	30SEP13
0LHLW448	PEWE Spare Reboiler (Evaporator Tube) Proc	01OCT12*	30SEP13
0LHLW422	Analytical Lab Annual Equipment FY14	01OCT13	30SEP14
0LHLW450	PEWE Spare Reboiler (Evaporator Tube) Inst	01OCT13	30SEP14
0LHLW424	Analytical Lab Annual Equipment FY15	01OCT14	30SEP15
0LHLW426	PEWE Spare Flash Column Procure	01OCT14*	30SEP15



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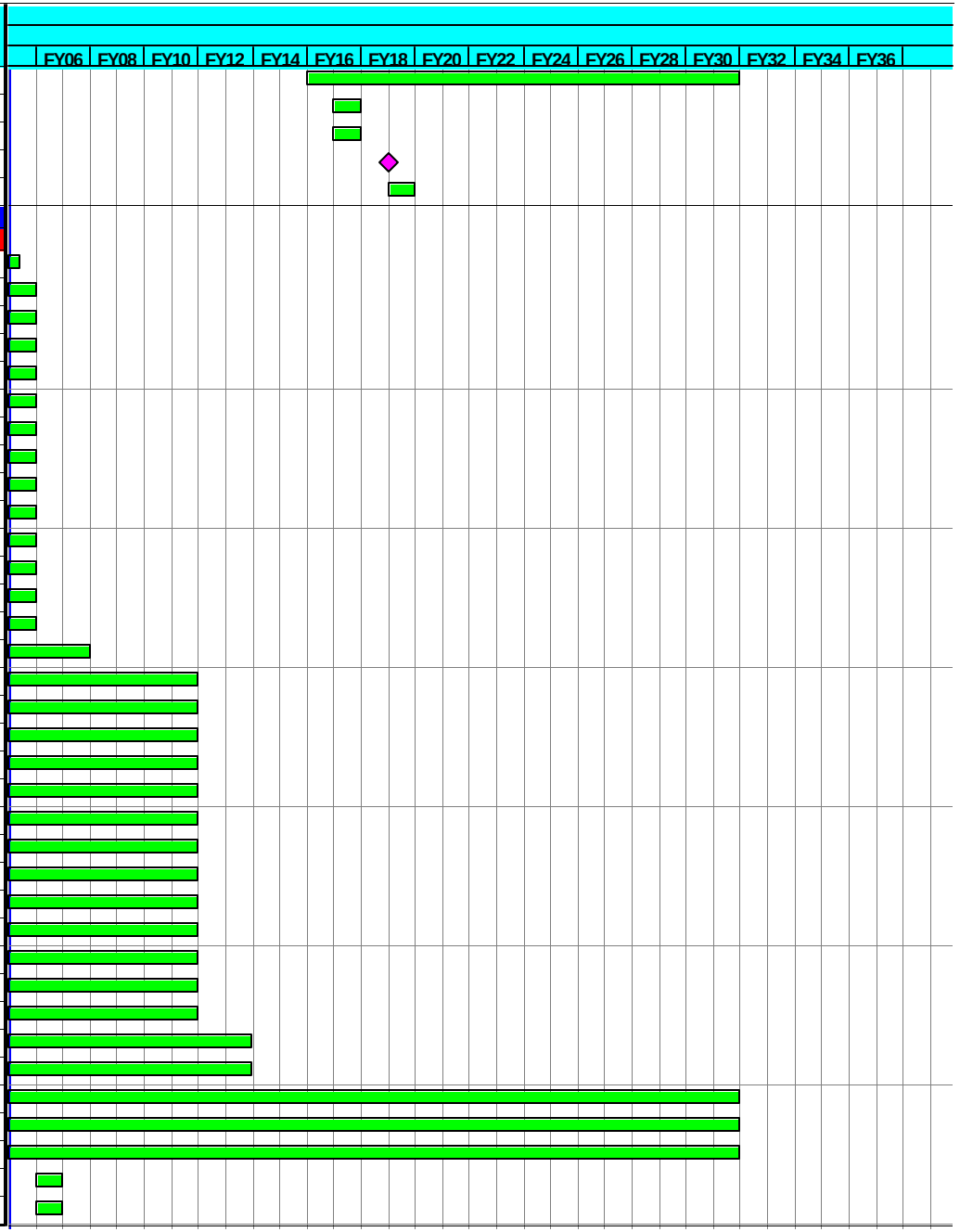
Activity ID	Activity Description	Early Start	Early Finish
0LCADJ19	FY15 to FY30 Contingency Adjustment (+75% FY05)	01OCT14*	30SEP30
0LHLW428	Analytical Lab Annual Equipment FY16	01OCT15	30SEP16
0LHLW430	PEWE Spare Flash Column Install	01OCT15	30SEP16
0LS49035	CPP-1774 NRC Lic application renewal submitted		29SEP17*
0LHLW432	Analytical Lab Annual Equipment FY18	02OCT17*	28SEP18
CPP-SP0 Technical Services Support			
CPP-SP0 Technical Services Support			
0LHLW900	Near-Term RCRA Calciner Closure Actions-Certify	01OCT03	27FEB04
0LCADJ20	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
0LHLW130	NWCF/DF Document Services Support	01OCT03	30SEP04
0LHLW133	NWCF/DF Training Services	01OCT03	30SEP04
0LHLW155	NWCF/DF Environmental Services	01OCT03	30SEP04
0LHLW185	Analytical Process Support	01OCT03	30SEP04
0LHLW223	INTEC Flood Plain Determinations	01OCT03	30SEP04
0LS11013	Criticality Safety Program Support FY04	01OCT03	30SEP04
0LS68202	SNF Technical Services Support FY04	01OCT03	30SEP04
0LS68214	Fort St Vrain ISFSI Security FY04	01OCT03	30SEP04
0LS68215	Fort St Vrain ISFSI Compliance Progr FY04	01OCT03	30SEP04
0LS68216	Fort St Vrain ISFSI Training Program FY04	01OCT03	30SEP04
0LS68221	CPP-1774 ISFSI Compliance Progr FY04	01OCT03	30SEP04
0LS68222	CPP-1774 ISFSI Training Program FY04	01OCT03	30SEP04
0LHLW211	HLW RCRA Permitting	01OCT03	29SEP06
0LHLW055	TF/TPW Document Services Support	01OCT03	30SEP10
0LHLW058	TF/TPW Training Services	01OCT03	30SEP10
0LHLW061	TF/TPW Environmental Services	01OCT03	30SEP10
0LHLW067	Process Waste Technology and Modeling	01OCT03	30SEP10
0LHLW136	NWCF Liquid Waste Processing Technology	01OCT03	30SEP10
0LHLW145	HLW ES&H Program Support	01OCT03	30SEP10
0LHLW179	HLW Waste Materials Analysis	01OCT03	30SEP10
0LHLW190	Waste Generator Services-High Level	01OCT03	30SEP10
0LHLW193	Waste and Excess Chemical Disposition	01OCT03	30SEP10
0LHLW205	Safety Anlaysis Ops Support	01OCT03	30SEP10
0LHLW256	Waste Min Technologies and Evaluations	01OCT03	30SEP10
0LHLW259	RLW Reduction Support	01OCT03	30SEP10
0LHLW298	SAR Development and Implementation	01OCT03	30SEP10
0LER001	CPP-601 Field Operations and Facility Engineer	01OCT03	28SEP12
0LHLW274	Environmental Support	01OCT03	28SEP12
0LINF017	Nuclear Safety Util/Maint	01OCT03	30SEP30
0LINF069	Nuclear Safety Core Spt	01OCT03	30SEP30
0LWM001	WM Safety Analysis Support	01OCT03	30SEP30
0LCADJ21	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
0LHLW186	Analytical Process Support	01OCT04	30SEP05



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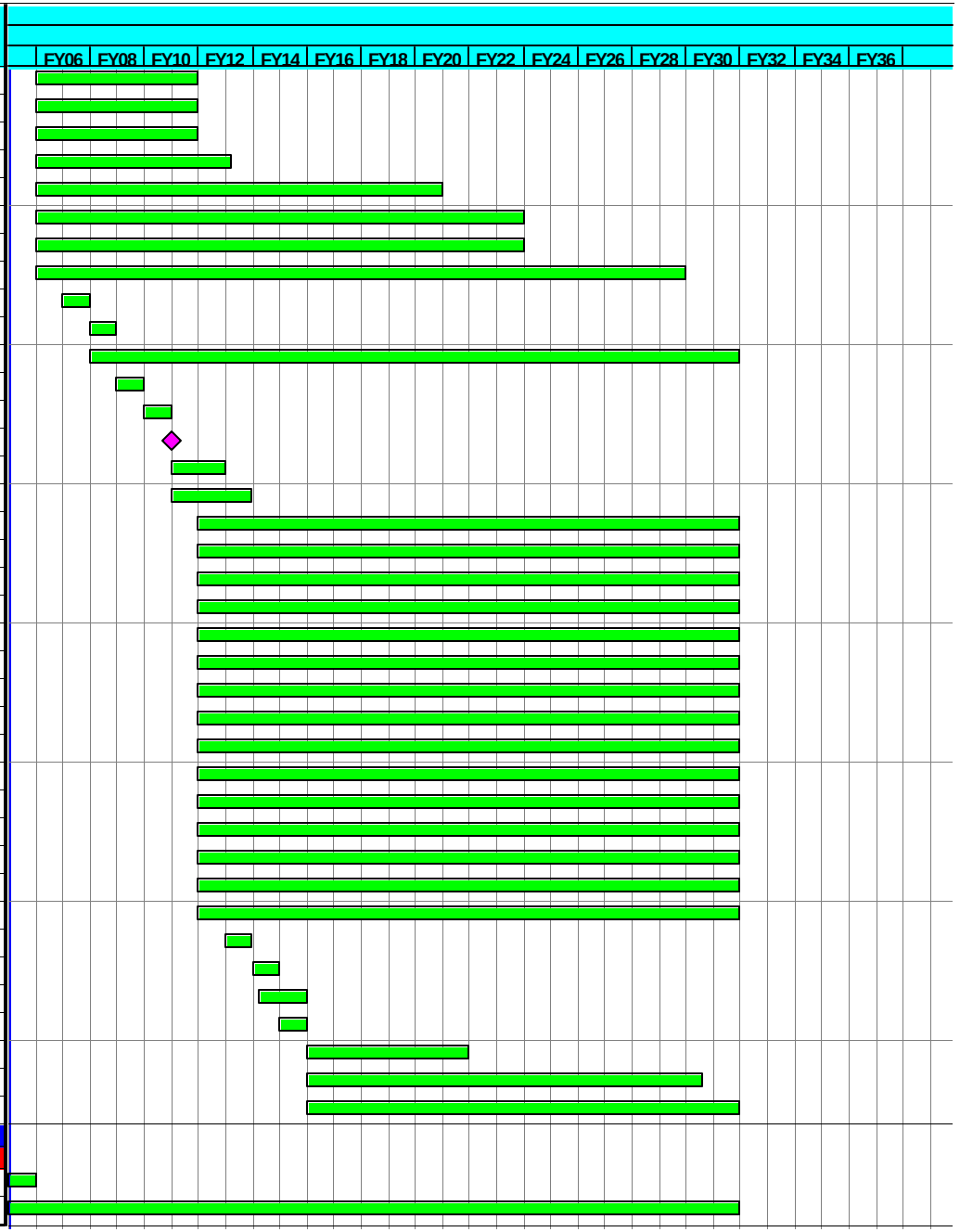
Activity ID	Activity Description	Early Start	Early Finish
0LHLW131	NWCF/DF Document Services Support	01OCT04	30SEP10
0LHLW134	NWCF/DF Training Services	01OCT04	30SEP10
0LHLW156	NWCF/DF Environmental Services	01OCT04	30SEP10
0LS32003	CPP-666 Technical Support	01OCT04*	23DEC11
0L42203	CPP-749 Technical Support	01OCT04*	30SEP19
0L40203	FSV Technical Support	01OCT04*	30SEP22
0LS47003	IFSF Technical Support	01OCT04*	30SEP22
0LS49203	CPP 1774 Technical Support	01OCT04*	30SEP28
0LHLW192	Analytical Process Support	03OCT05	29SEP06
0LHLW196	Analytical Process Support	02OCT06	28SEP07
0LHLW220	HLW RCRA Permitting	02OCT06	30SEP30
0LHLW198	Analytical Process Support	01OCT07	30SEP08
0LHLW200	Analytical Process Support	01OCT08	30SEP09
0LS40029	NRC FSV Lic renewal Complete		30SEP09*
0LHLW902	Develop-Approve-RCRA-DOE Closure Plans-Calciner	01OCT09*	30SEP11
0LHLW202	Analytical Process Support NGLW Treat.	01OCT09	28SEP12
0LHLW056	TF/TPW Document Services Support NGLW Treat.	01OCT10	30SEP30
0LHLW059	TF/TPW Training Services NGLW Treat.	01OCT10	30SEP30
0LHLW062	TF/TPW Environmental Services NGLW Treat.	01OCT10	30SEP30
0LHLW132	NWCF/DF Document Services Support NGLW Treat.	01OCT10	30SEP30
0LHLW135	NWCF/DF Training Services NGLW Treat.	01OCT10	30SEP30
0LHLW137	NWCF Liquid Waste Processing Technology NGLW	01OCT10	30SEP30
0LHLW157	NWCF/DF Environmental Services NGLW Treat.	01OCT10	30SEP30
0LHLW178	HLW ES&H Program Support NGLW Treat.	01OCT10	30SEP30
0LHLW180	HLW Waste Materials Analysis NGLW Treat.	01OCT10	30SEP30
0LHLW191	Waste Generator Services-High Level NGLW Treat.	01OCT10	30SEP30
0LHLW194	Waste and Excess Chemical Disposition NGLW Treat	01OCT10	30SEP30
0LHLW208	Safety Anlaysis Ops Support NGLW Treat.	01OCT10	30SEP30
0LHLW257	Waste Min Technologies and Evaluations NGLW Trea	01OCT10	30SEP30
0LHLW260	RLW Reduction Support NGLW Treat.	01OCT10	30SEP30
0LHLW299	SAR Development and Implementation NGLW Treat.	01OCT10	30SEP30
0LHLW904	Design Clean Closure Actions-Calciner Closure	03OCT11	28SEP12
0LHLW204	Analytical Process Support NGLW Treat.	01OCT12	30SEP13
0LHLW906	Cleaning & Isolation Closure Actions-Calciner	17DEC12*	30SEP14
0LHLW206	Analytical Process Support NGLW Treat.	01OCT13	30SEP14
0LHLW210	Analytical Process Support NGLW Treat.	01OCT14	30SEP20
0LHLW908	Permit for RCRA Storage until D&D of Bldg. NWCF	01OCT14	30APR29
0LCADJ22	FY15 to FY30 Contingency Adjustment (+75% FY05)	01OCT14*	30SEP30
CPP-SP0 Core Services Support			
CPP-SP0 Core Services Support			
0LB348	INTEC Facility Fire Protection	01OCT03	30SEP04
0LINF024	Life Safety Util Maint	01OCT03	30SEP30



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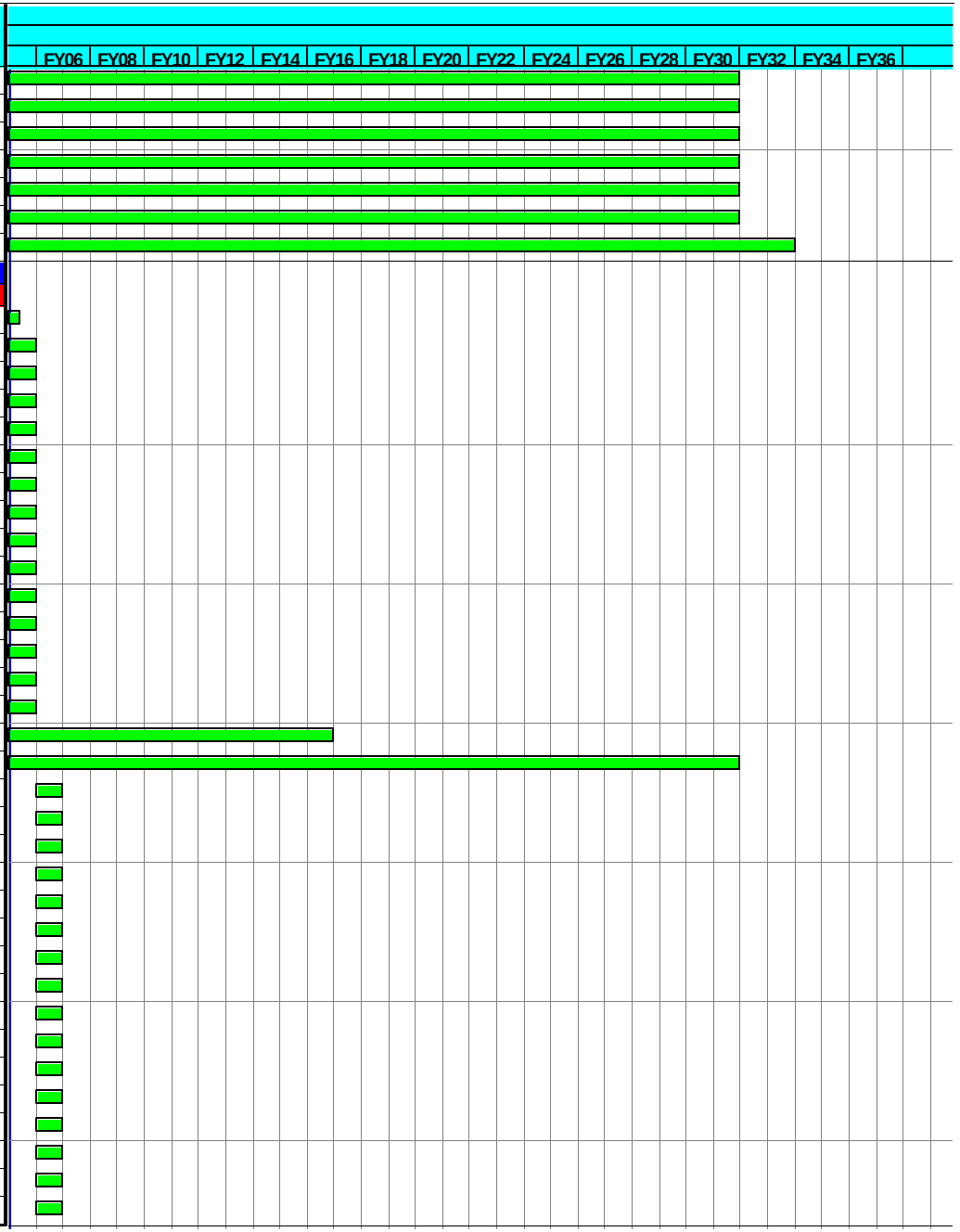
0LINF049	EM Ops ES&H Core Support	01OCT03	30SEP30
0LINF053	EM Ops Management Core Spt	01OCT03	30SEP30
0LINF057	EM Engineering Core Spt	01OCT03	30SEP30
0LINF061	EM Maintenance Core Support	01OCT03	30SEP30
0LINF065	EM Ops Training Core Spt	01OCT03	30SEP30
0LINF109	Auditable Safety Analysis Construction	01OCT03	30SEP30
0LINF013	INTEC ESH&QA Util/Maint	01OCT03	30SEP32
CPP-SP0 Capital Projects			
CPP-SP0 Capital Projects			
0LS46204	IFSF HVAC Upgrade FY04	01OCT03	25FEB04
0LB178	CPP-1653 Heating and Electrical	01OCT03	30SEP04
0LB181	CPP-1656 Heating and Electrical	01OCT03	30SEP04
0LB220	CPP-611 Mechanical	01OCT03	30SEP04
0LB247	CPP-645 BBWI New Roof	01OCT03	30SEP04
0LB281	CPP-668 New Roof	01OCT03	30SEP04
0LB310	B4 & B5 Valve Boxes	01OCT03	30SEP04
0LB311	Upgrade CPP-659 HVAC System	01OCT03	30SEP04
0LB322	PWL Valve Replacement	01OCT03	30SEP04
0LB329	Decon Cell Bagout	01OCT03	30SEP04
0LB330	Sodium Hydroxide Tank Installation (Mechanical)	01OCT03	30SEP04
0LB351	Cathodic Protection	01OCT03	30SEP04
0LCAD123	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
0LCE020	Additional Filter Drying Vessel	01OCT03*	30SEP04
0LS13039	(in prev DWP was) SNF New Project Definition FY04	01OCT03	30SEP04
0LB349	MinSafe Caretaker Upgrades	01OCT03	30SEP15
0LB363	Administration and Planning of GPP's	01OCT03	30SEP30
0LB900	NWCF Decon-Filter Leach Acid Supply	01OCT04*	29SEP05
0LB141	CPP-605 New Roof	01OCT04*	30SEP05
0LB211	CPP-602 1st Heating, Vent., and Air Conditioning	01OCT04*	30SEP05
0LB214	CPP-602 2nd New Roof	01OCT04*	30SEP05
0LB218	CPP-606 New Roof	01OCT04*	30SEP05
0LB231	CPP-621 New Roof	01OCT04*	30SEP05
0LB232	CPP-630 2nd Heating, Vent., and Air Conditioning	01OCT04*	30SEP05
0LB236	CPP-637 1st Heating, Vent., and Air Conditioning	01OCT04*	30SEP05
0LB298	CPP-698 New Roof	01OCT04*	30SEP05
0LB306	RAL Stack Monitor Installation	01OCT04*	30SEP05
0LB308	PEW Acid Recycle Tank	01OCT04*	30SEP05
0LB311A	Upgrade CPP-659 HVAC System	01OCT04	30SEP05
0LB312	6 Model E/F Central Research MSMs	01OCT04*	30SEP05
0LB314	Gas Chromatography (Mass Spectrometer)	01OCT04*	30SEP05
0LB319	D-4 Valve Box	01OCT04*	30SEP05
0LB320	DCS-WN-900 Mainstack Upgrade	01OCT04*	30SEP05



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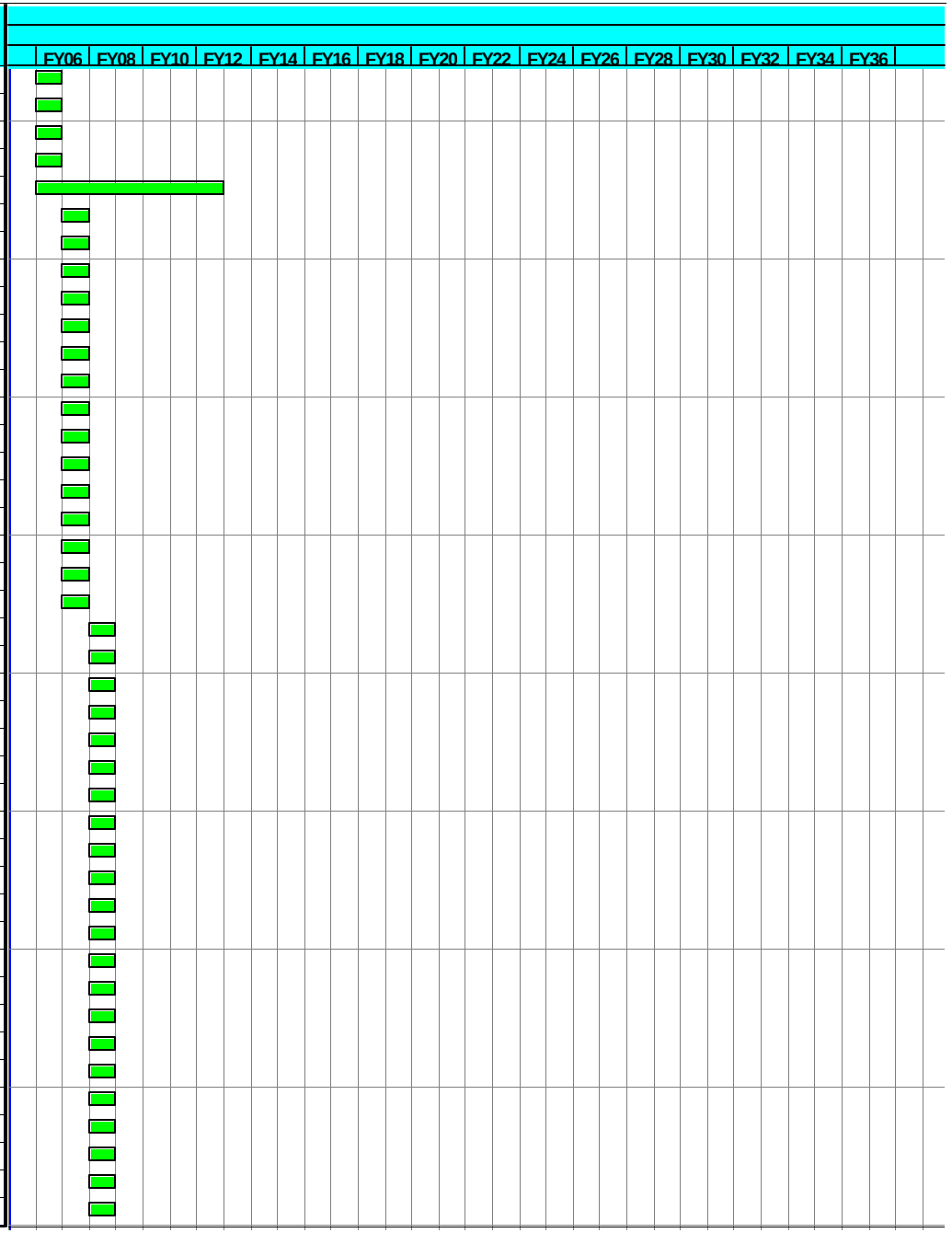
Activity ID	Activity Description	Early Start	Early Finish
0LB325	Potable Water (Mechanical)	01OCT04*	30SEP05
0LB328	Sanitary Sewer Ext.	01OCT04*	30SEP05
0LB346	Roof Replacements	01OCT04*	30SEP05
0LCADJ24	FY05 Contingency Adjustment (-75%)	01OCT04	30SEP05
0LS46200	IFSF GPP & Capital Equipment	01OCT04*	30SEP11
0LB032	CPP-1604 Heating and Electrical	03OCT05*	29SEP06
0LB074	CPP-1605 Heating and Electrical	03OCT05*	29SEP06
0LB212	CPP-602 1st Interior Upgrades	03OCT05*	29SEP06
0LB233	CPP-630 2nd Interior Upgrades	03OCT05*	29SEP06
0LB268	CPP-660 New Roof	03OCT05*	29SEP06
0LB272	CPP-662 Heating, Vent., and Air Conditioning	03OCT05*	29SEP06
0LB276	CPP-663-1st Mechanical and Electrical	03OCT05*	29SEP06
0LB282	CPP-668 Heating and Electrical	03OCT05*	29SEP06
0LB290	CPP-684 New Roof	03OCT05*	29SEP06
0LB307	Valve Box C-18 Upgrade	03OCT05*	29SEP06
0LB309	INLET Damper Upgrade	03OCT05*	29SEP06
0LB321	LET&D Train 2 Piping (installation)	03OCT05*	29SEP06
0LB901	LET&D Acid Route to NWCF Decon Facility	03OCT05*	29SEP06
0LB902	Tank Farm Steam Line Upgrade	03OCT05*	29SEP06
0LB903	Valve Cubicle PaR Manipulator	03OCT05*	29SEP06
0LB123	CPP-1608 Heating, Vent., and Air Conditioning	02OCT06*	28SEP07
0LB213	CPP-602 1st Electrical	02OCT06*	28SEP07
0LB234	CPP-630 2nd Electrical	02OCT06*	28SEP07
0LB241	CPP-645 DOE Major Upgrade	02OCT06*	28SEP07
0LB248	CPP-649 New Roof	02OCT06*	28SEP07
0LB258	CPP-654 Heating, Vent., and Air Conditioning	02OCT06*	28SEP07
0LB262	CPP-656 1st Heating and Electrical	02OCT06*	28SEP07
0LB266	CPP-659 New Roof	02OCT06*	28SEP07
0LB279	CPP-663-2nd Major Upgrade	02OCT06*	28SEP07
0LB285	CPP-679 New Roof	02OCT06*	28SEP07
0LB312A	6 Model E/F Central Research MSMs	02OCT06*	28SEP07
0LB317	C-10 Valve Box	02OCT06*	28SEP07
0LB318	C-31 Valve Box (deep tank transfers)	02OCT06*	28SEP07
0LB323	CPP-604 TFT Instrument Upgrade	02OCT06*	28SEP07
0LB340	Fire Alarm Upgrade (Electrical)	02OCT06*	28SEP07
0LB343	Decon Cell PaR Manipulator	02OCT06*	28SEP07
0LB904	604 Evaporator	02OCT06*	28SEP07
0LB905	Tank Farm UPS	02OCT06*	28SEP07
0LB906	PEWE Condensate Upgrade	02OCT06*	28SEP07
0LB907	LET&D Condensate Upgrade	02OCT06*	28SEP07
0LB908	HLLWE Condensate Upgrade	02OCT06*	28SEP07
0LB909	CPP-1683 Firecode Upgrade	02OCT06*	28SEP07



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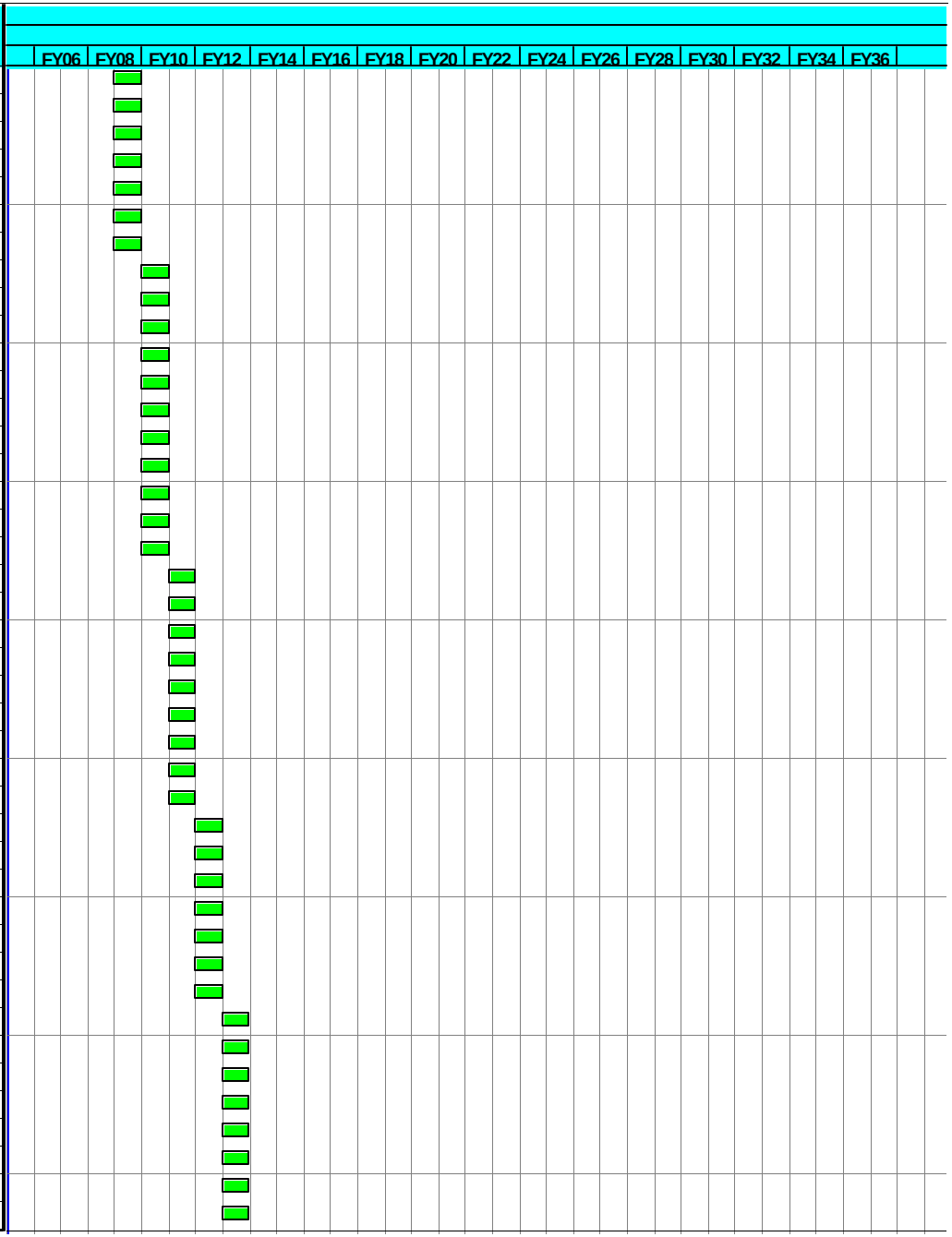
Activity ID	Activity Description	Early Start	Early Finish
0LB219	CPP-606 Major Upgrade	01OCT07*	30SEP08
0LB242	CPP-645 DOE Heating, Vent., and Air Conditioning	01OCT07*	30SEP08
0LB254	CPP-653 New Roof	01OCT07*	30SEP08
0LB259	CPP-654 New Roof	01OCT07*	30SEP08
0LB335	Brine Storage (Mechanical)	01OCT07*	30SEP08
0LB336	Emergency Communication System (Electrical)	01OCT07*	30SEP08
0LB347	Roof Replacements	01OCT07*	30SEP08
0LB120	CPP-1606 Heating, Vent., and Air Conditioning	01OCT08*	30SEP09
0LB147	CPP-1631 Heating and Electrical	01OCT08*	30SEP09
0LB223	CPP-612 Mechanical	01OCT08*	30SEP09
0LB295	CPP-697 New Roof	01OCT08*	30SEP09
0LB299	CPP-698 Major Upgrade	01OCT08*	30SEP09
0LB301	CPP-699 Heating and Electrical	01OCT08*	30SEP09
0LB325A	Potable Water (Mechanical)	01OCT08*	30SEP09
0LB326	Fire Water Systems (Mechanical)	01OCT08*	30SEP09
0LB331	Outdoor Lighting (Electrical)	01OCT08*	30SEP09
0LB340A	Fire Alarm Upgrade (Electrical)	01OCT08*	30SEP09
0LB342	Roads and Paving	01OCT08*	30SEP09
0LB055	CPP-1604 Interior Upgrades	01OCT09*	30SEP10
0LB192	CPP-1666 New Roof	01OCT09*	30SEP10
0LB204	CPP-1681 Major Upgrade	01OCT09*	30SEP10
0LB243	CPP-645 DOE Interior Upgrades	01OCT09*	30SEP10
0LB255	CPP-653 Heating, Vent., and Air Conditioning	01OCT09*	30SEP10
0LB273	CPP-662 New Roof	01OCT09*	30SEP10
0LB345	Misc. Fac./Utility Upgrades (Heating-Mechanical)	01OCT09*	30SEP10
0LCE021	Spare LET&D Reboiler	01OCT09*	30SEP10
0LS39001	FSV GPP Projects	01OCT09*	30SEP10
0LB083	CPP-1605 Interior Upgrades	01OCT10*	30SEP11
0LB171	CPP-1646 Heating, Vent., and Air Conditioning	01OCT10*	30SEP11
0LB173	CPP-1649 Heating, Vent., and Air Conditioning	01OCT10*	30SEP11
0LB269	CPP-660 Heating and Electrical	01OCT10*	30SEP11
0LB332	Comp. & Breath Air (Mechanical)	01OCT10*	30SEP11
0LB341	Process Water Treat. (Mechanical)	01OCT10*	30SEP11
0LB365	Roof Replacements	01OCT10*	30SEP11
0LB124	CPP-1608 New Roof	03OCT11*	28SEP12
0LB164	CPP-1642 Mechanical	03OCT11*	28SEP12
0LB166	CPP-1643 Mechanical	03OCT11*	28SEP12
0LB186	CPP-1662 Heating and Electrical	03OCT11*	28SEP12
0LB189	CPP-1663 Heating and Electrical	03OCT11*	28SEP12
0LB215	CPP-603 New Roof	03OCT11*	28SEP12
0LB227	CPP-615 Mechanical	03OCT11*	28SEP12
0LB286	CPP-679 Major Upgrade	03OCT11*	28SEP12



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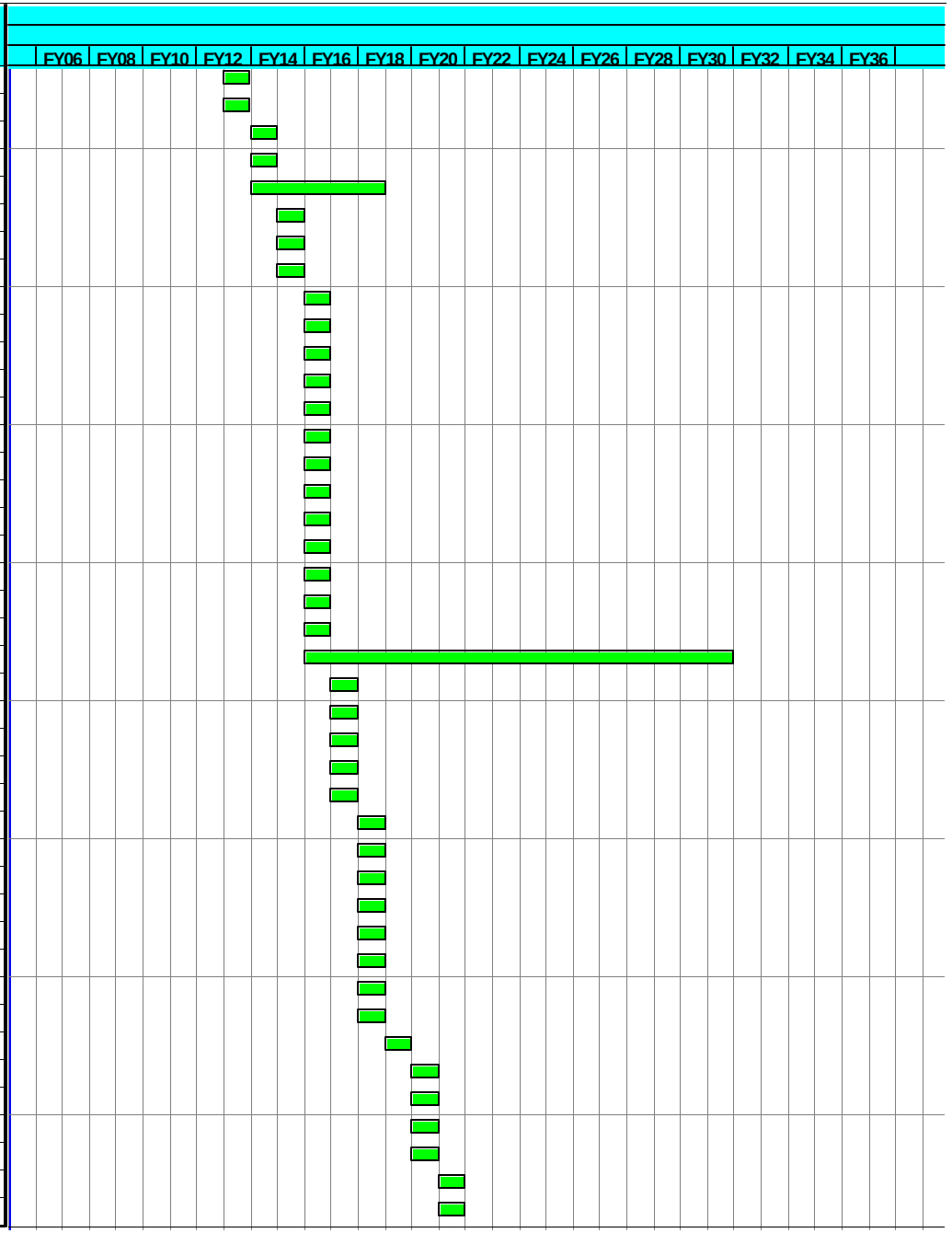
Activity ID	Activity Description	Early Start	Early Finish
0LB334	Fuel Oil (Mechanical)	03OCT11*	28SEP12
0LB338	Ditches/Culverts (Mechanical)	03OCT11*	28SEP12
0LB176	CPP-1650 Major Upgrade	01OCT12*	30SEP13
0LB201	CPP-1678 Mechanical	01OCT12*	30SEP13
0LS46201	IFSF GPP & Capital Equipment	01OCT12*	30SEP17
0LB221	CPP-611 Mechanical	01OCT13*	30SEP14
0LB325B	Potable Water (Mechanical)	01OCT13*	30SEP14
0LB356	Roof Replacements	01OCT13*	30SEP14
0LB085	CPP-1605 New Roof	01OCT14*	30SEP15
0LB150	CPP-1634 Heating and Electrical	01OCT14*	30SEP15
0LB155	CPP-1636 New Roof	01OCT14*	30SEP15
0LB158	CPP-1637 New Roof	01OCT14*	30SEP15
0LB161	CPP-1638 New Roof	01OCT14*	30SEP15
0LB177	CPP-1651 Major Upgrade	01OCT14*	30SEP15
0LB194	CPP-1671 New Roof	01OCT14*	30SEP15
0LB197	CPP-1673 Heating and Electrical	01OCT14*	30SEP15
0LB228	CPP-615 Electrical	01OCT14*	30SEP15
0LB274	CPP-662 Electrical	01OCT14*	30SEP15
0LB277	CPP-663-1st New Roof	01OCT14*	30SEP15
0LB291	CPP-684 Major Upgrade	01OCT14*	30SEP15
0LB296	CPP-697 Heating and Electrical	01OCT14*	30SEP15
0LCADJ25	FY15 to FY30 Contingency Adjustment (+75% FY05)	01OCT14*	30SEP30
0LB063	CPP-1604 New Roof	01OCT15*	30SEP16
0LB121	CPP-1606 New Roof	01OCT15*	30SEP16
0LB193	CPP-1666 Major Upgrade	01OCT15*	30SEP16
0LB195	CPP-1671 Heating, Vent., and Air Conditioning	01OCT15*	30SEP16
0LB251	CPP-652 Major Upgrade	01OCT15*	30SEP16
0LB148	CPP-1631 Interior Upgrades	03OCT16*	29SEP17
0LB187	CPP-1662 New Roof	03OCT16*	29SEP17
0LB190	CPP-1663 New Roof	03OCT16*	29SEP17
0LB199	CPP-1674 Heating and Electrical	03OCT16*	29SEP17
0LB206	CPP-1683 Major Upgrade	03OCT16*	29SEP17
0LB357	Roof Replacements	03OCT16*	29SEP17
0LCE022	Spare LET&D Reboiler	03OCT16*	29SEP17
0LS39002	FSV GPP Projects	03OCT16*	29SEP17
0LB146	CPP-1619 New Roof	02OCT17*	28SEP18
0LB224	CPP-612 Mechanical	01OCT18*	30SEP19
0LB325C	Potable Water (Mechanical)	01OCT18*	30SEP19
0LB326A	Fire Water Systems (Mechanical)	01OCT18*	30SEP19
0LB342A	Roads and Paving	01OCT18*	30SEP19
0LB122	CPP-1606 Electrical	01OCT19*	30SEP20
0LB129	CPP-1608 Electrical	01OCT19*	30SEP20



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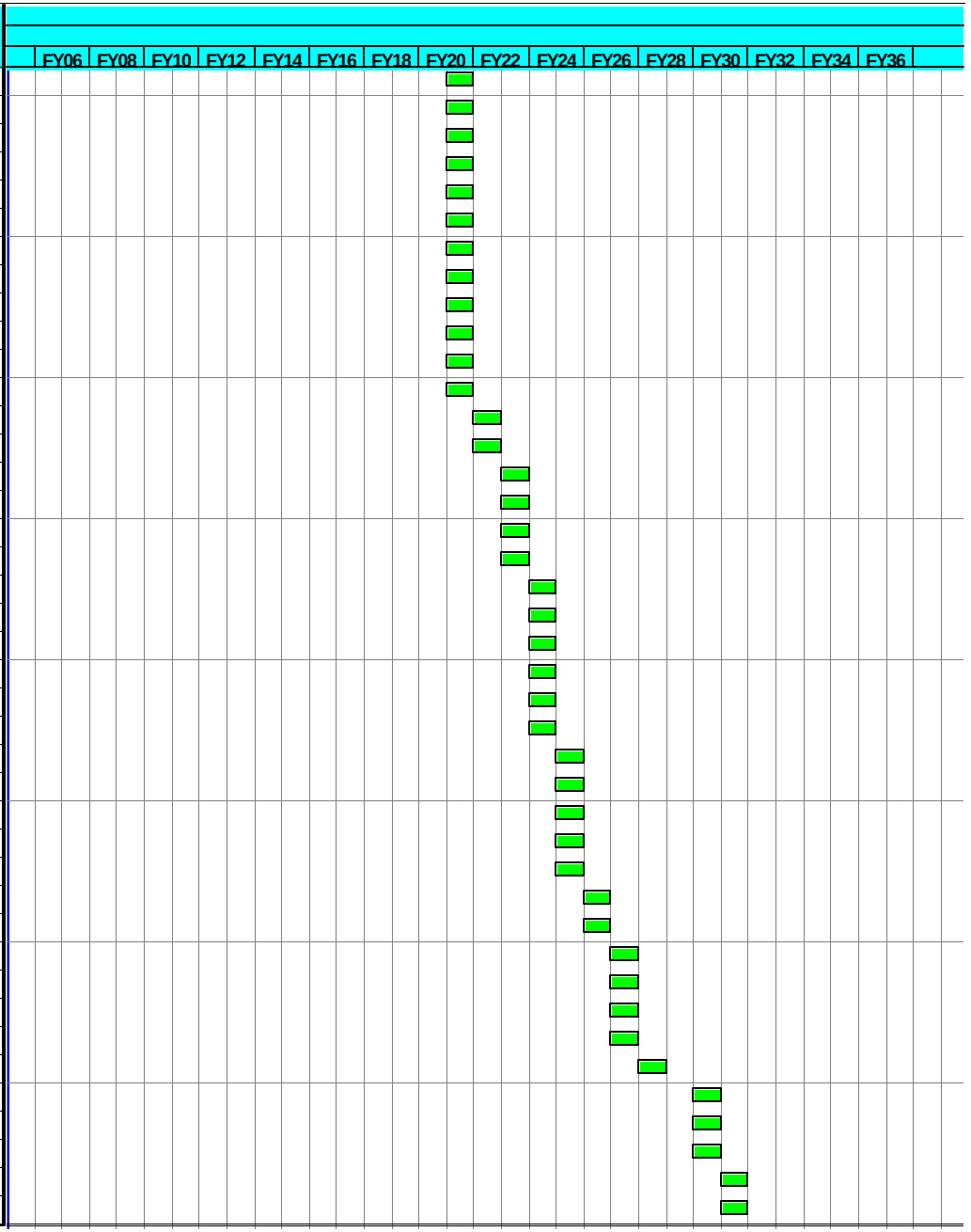
Activity ID	Activity Description	Early Start	Early Finish
0LB145	CPP-1618 New Roof	01OCT19*	30SEP20
0LB149	CPP-1631 New Roof	01OCT19*	30SEP20
0LB159	CPP-655 New Roof	01OCT19*	30SEP20
0LB209	CPP-1686 Heating, Vent., and Air Conditioning	01OCT19*	30SEP20
0LB226	CPP-613 New Roof	01OCT19*	30SEP20
0LB256	CPP-653 Electrical	01OCT19*	30SEP20
0LB324	Electrical Distribution (Electrical)	01OCT19*	30SEP20
0LB336A	Emergency Communication System (Electrical)	01OCT19*	30SEP20
0LB337	Telecommunication Facility (Electrical)	01OCT19*	30SEP20
0LB338A	Ditches/Culverts (Mechanical)	01OCT19*	30SEP20
0LB345A	Misc. Fac./Utility Upgrades (Heating-Mechanical)	01OCT19*	30SEP20
0LB358	Roof Replacements	01OCT19*	30SEP20
0LB172	CPP-1646 New Roof	01OCT20*	30SEP21
0LB341A	Process Water Treat. (Mechanical)	01OCT20*	30SEP21
0LB156	CPP-605 New Roof	01OCT21*	30SEP22
0LB200	CPP-1674 Major Upgrade	01OCT21*	30SEP22
0LB207	CPP-1684 Heating, Mechanical, New Roof	01OCT21*	30SEP22
0LB340B	Fire Alarm Upgrade (Electrical)	01OCT21*	30SEP22
0LB151	CPP-1634 New Roof	03OCT22*	29SEP23
0LB182	CPP-1656 New Roof	03OCT22*	29SEP23
0LB198	CPP-1673 Major Upgrade	03OCT22*	29SEP23
0LB252	CPP-652 New Roof	03OCT22*	29SEP23
0LB331A	Outdoor Lighting (Electrical)	03OCT22*	29SEP23
0LB359	Roof Replacements	03OCT22*	29SEP23
0LB183	CPP-1656 Heating, Vent., and Air Conditioning	02OCT23*	30SEP24
0LB210	CPP-1686 Major Upgrade	02OCT23*	30SEP24
0LB222	CPP-611 Mechanical	02OCT23*	30SEP24
0LB253	CPP-652 Mechanical and Electrical	02OCT23*	30SEP24
0LB325D	Potable Water (Mechanical)	02OCT23*	30SEP24
0LB072	CPP-1604 Heating and Electrical	01OCT24*	30SEP25
0LB337A	Telecommunication Facility (New Roof)	01OCT24*	30SEP25
0LB106	CPP-1605 Heating and Electrical	01OCT25*	30SEP26
0LB280	CPP-663-2nd Heating, Vent., and Air Conditioning	01OCT25*	30SEP26
0LB332A	Comp. & Breath Air (Mechanical)	01OCT25*	30SEP26
0LB360	Roof Replacements	01OCT25*	30SEP26
0LB229	CPP-615 Mechanical/ New Roof	01OCT26*	30SEP27
0LB325E	Potable Water (Mechanical)	02OCT28*	28SEP29
0LB326B	Fire Water Systems (Mechanical)	02OCT28*	28SEP29
0LB342B	Roads and Paving	02OCT28*	28SEP29
0LB324A	Electrical Distribution (Electrical)	01OCT29*	30SEP30
0LB345B	Misc. Fac./Utility Upgrades (Heating-Mechanical)	01OCT29*	30SEP30



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Lifecycle Baseline

INEEL
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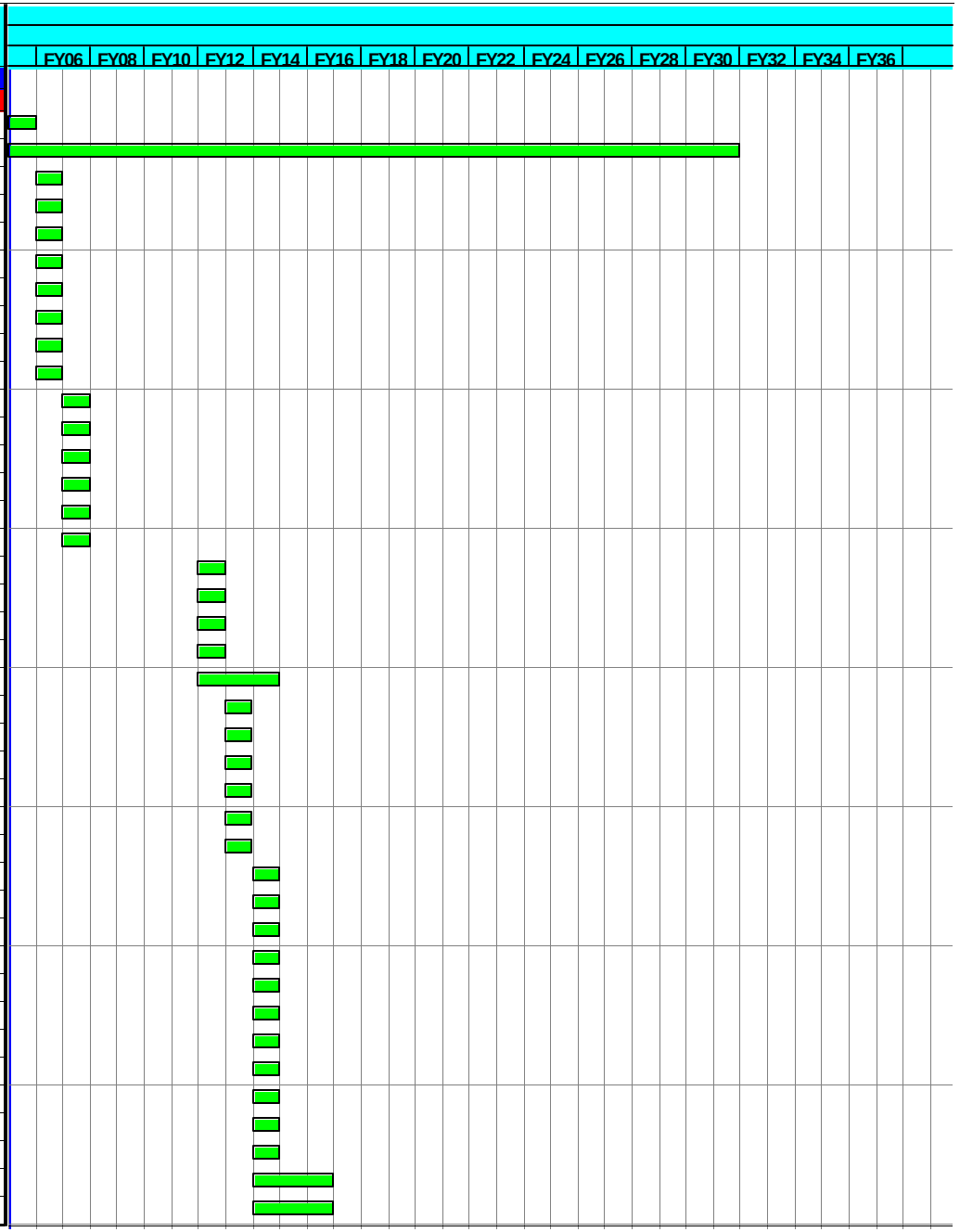
Idaho National Engineering and Environmental Laboratory

Activity ID	Activity Description	Early Start	Early Finish
CPP-SP0 Facility Inactivation			
CPP-CP0 Facility Inactivation			
0LCADJ26	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
0LER029	INTEC Inactive Facility Support	01OCT03	30SEP30
0LB137A	CPP-TB-1 Carpenter Shop Inactivation	01OCT04	29SEP05
0LB142A	CPP-TR-19 Office Trailer Inactivation	01OCT04	29SEP05
0LB005A	CPP-1607 Auto Foam Fire Prot. Bldg Inactivation	01OCT04	30SEP05
0LB015A	CPP-1630 Fire Protection Bldg Inactivation	01OCT04	30SEP05
0LB105A	CPP-664 QA Office Building Inactivation	01OCT04	30SEP05
0LB126A	CPP-693 ICPP Warehouse Inactivation	01OCT04	30SEP05
0LB128A	CPP-695 Quality X-Ray Facility Inactivation	01OCT04	30SEP05
0LCADJ27	FY05 Contingency Adjustment (-75%)	01OCT04	30SEP05
0LB143A	CPP-TR-20 FPR Office Trailer Inactivation	30SEP05	28SEP06
0LB144A	CPP-TR-35 Office Trailer Inactivation	30SEP05	28SEP06
0LB026A	CPP-1647 Demin Waste Neutralize Inactivation	03OCT05	29SEP06
0LB092A	CPP-650 Breathing Air Compressor Inactivation	03OCT05	29SEP06
0LB110A	CPP-672 Rad-Con Storage Inactivation	03OCT05	29SEP06
0LB117A	CPP-683 Breathing Air Charger Inactivation	03OCT05	29SEP06
0LB001A	CPP-1603 Landlord Storage Facility Inactivation	01OCT10	29SEP11
0LB011A	CPP-1616 Glass Shop Storage Inact	01OCT10	29SEP11
0LB138A	CPP-TB-3 FPR Eastside Guardhouse Inactivation	01OCT10	29SEP11
0LB119A	CPP-685 Safeguard Data Acquisition Inactivation	04OCT10	29SEP11
0LB068A	CPP-621 Chemical Storage Pumphouse Inactivation	04OCT10	30SEP13
0LB140A	CPP-TB-5 Unloading Station Inactivation	30SEP11	27SEP12
0LB009A	CPP-1612Pond 326 Pumphouse Inactivation	03OCT11	28SEP12
0LB018A	CPP-1635 Haz. Chemical Stor Fac Inactivation	03OCT11	28SEP12
0LB098A	CPP-656 Office Building Inactivation	03OCT11	28SEP12
0LB108A	CPP-668 Engineering Support Offices Inactivation	03OCT11	28SEP12
0LB116A	CPP-682 S&H Emergency Equip Shop Inactivation	03OCT11	28SEP12
0LB008A	CPP-1611 Pond 327 Pumphouse Inactivation	01OCT12	30SEP13
0LB024A	CPP-1644 Bulk Chemical Unloading Inactivation	01OCT12	30SEP13
0LB088A	CPP-1672 Access Control Bldg (TF) Inactivation	01OCT12	30SEP13
0LB042A	CPP-1677 Change Room Inactivation	01OCT12	30SEP13
0LB045A	CPP-1682 Kerosene Pumphouse Inactivation	01OCT12	30SEP13
0LB067A	CPP-620A Annex Inactivation	01OCT12	30SEP13
0LB132A	CPP-699 Training/Prod. Office Bldg Inactivation	01OCT12	30SEP13
0LB134A	CPP-T-2 Temporary Storage Building Inactivation	01OCT12	30SEP13
0LB135A	CPP-T-3 Temporary Storage Building Inactivation	01OCT12	30SEP13
0LB365A	CPP-691 Fuel Processing Restor Fac Inactivation	01OCT12	30SEP13
0LST013	CPP-666 Facility Inactivation	01OCT12*	30SEP13
0LB064A	CPP-618 Tank Farm Measure/Control Inactivation	01OCT12	30SEP15
0LB065A	CPP-619 Waste Storage Controlhouse Inactivation	01OCT12	30SEP15



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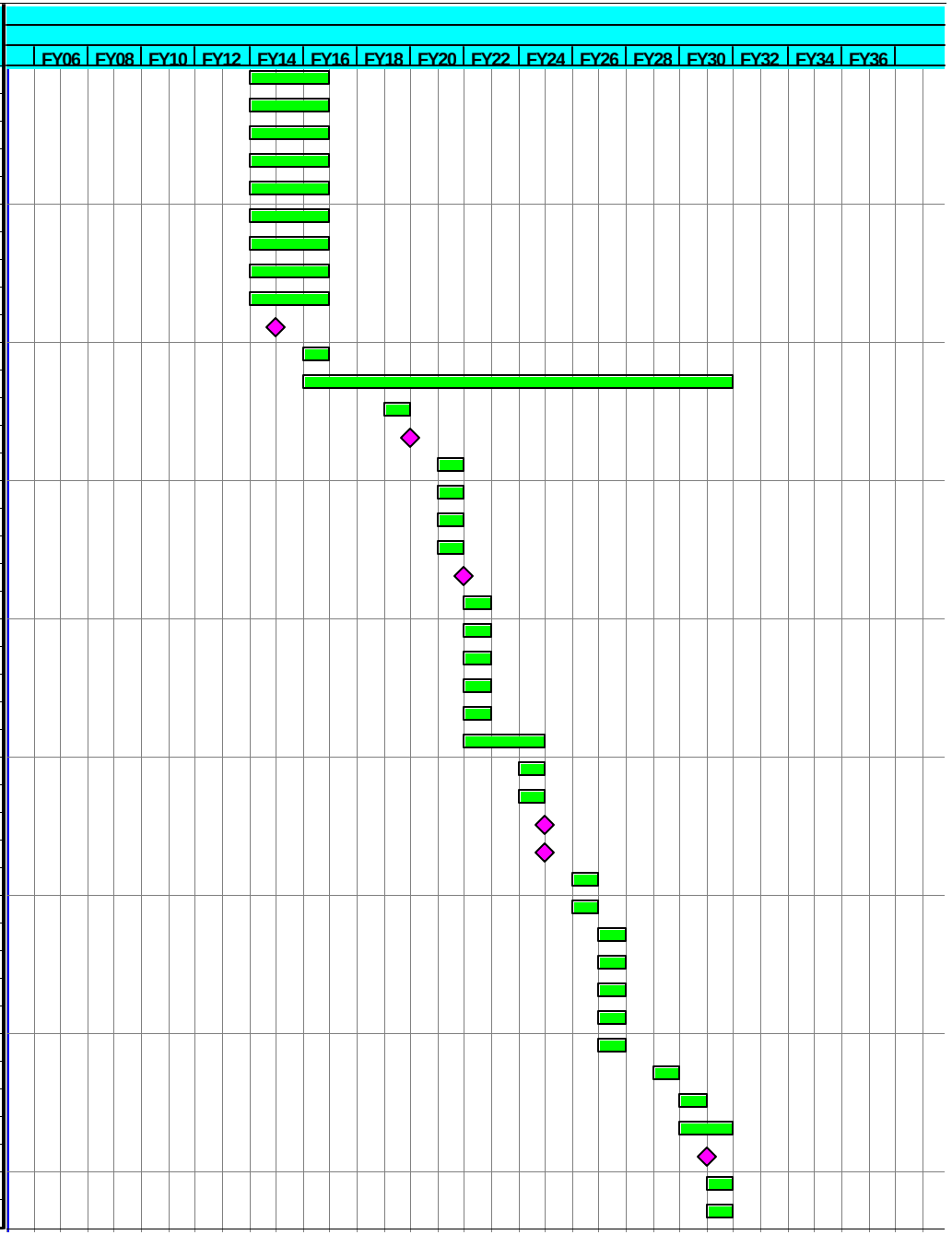
Activity ID	Activity Description	Early Start	Early Finish
0LB066A	CPP-620 Chem.Engr. Lab High Bay Inactivation	01OCT12	30SEP15
0LB069A	CPP-622 Tank Farm Instrument House Inactivation	01OCT12	30SEP15
0LB070A	CPP-623 Tank Farm Instrument House Inactivation	01OCT12	30SEP15
0LB073A	CPP-628 Tank Farm Controlhouse Inactivation	01OCT12	30SEP15
0LB076A	CPP-632 Instrument House, T F Area Inactivation	01OCT12	30SEP15
0LB077A	CPP-634 Waste Station Wm-185 Inactivation	01OCT12	30SEP15
0LB078A	CPP-635 Waste Stations Wm-187-188 Inactivation	01OCT12	30SEP15
0LB079A	CPP-636 Waste Stations Wm-189/-190 Inactivation	01OCT12	30SEP15
0LB081A	CPP-638 Waste Station Wm-180 Inactivation	01OCT12	30SEP15
0LST015	Turnover CPP-666 to D&D		30SEP13
0LB096A	CPP-654 Receiving Warehouse/Off Inactivation	01OCT14	30SEP15
0LCADJ28	FY15 to FY30 Contingency Adjustment (+75% FY05)	01OCT14*	30SEP30
0LST011	CPP-2707 Facility Inactivation	02OCT17	28SEP18
0LST016	Turnover CPP-2707 to D&D		28SEP18
0LB027A	CPP-1649 Instr. Stor & Maint. Fac. Inactivation	01OCT19	30SEP20
0LB043A	CPP-1678 Contractors Lunch Room Inactivation	01OCT19	30SEP20
0LB131A	CPP-698 MK Offices/Warehouse Inactivation	01OCT19	30SEP20
0LST007	CPP-749 Facilities Inactivation	01OCT19*	30SEP20
0LS42012	CPP-749 D&D transition preps & turnover cplt		30SEP20
0LB030A	CPP-1653 Subcon Warehouse Inactivation	01OCT20	30SEP21
0LB034A	CPP-1662 Remote Insp Engr Fac Inactivation	01OCT20	30SEP21
0LB035A	CPP-1663 Security & Fire Prot. Sup Inactivation	01OCT20	30SEP21
0LB036A	CPP-1666 Engineering Support Office Inactivation	01OCT20	30SEP21
0LB101A	CPP-660 Chem & Haz Matl Storage Inactivation	01OCT20	30SEP21
0LB075A	CPP-630 Safety/Spectrometry Inactivation	01OCT20	29SEP23
0LST014	FSV Facility Inactivation	01OCT22	30SEP23
0LST012	IFSF Facility Inactivation	04OCT22	02OCT23
0LST017	Turnover FSV to D&D		30SEP23
0LS47009	Turnover IFSF to D&D		02OCT23
0LB028A	CPP-1650 Training Support Facility Inactivation	01OCT24	30SEP25
0LB029A	CPP-1651 Operations Training Fac Inactivation	01OCT24	30SEP25
0LB019A	CPP-1636 Warehouse Inactivation	01OCT25	30SEP26
0LB020A	CPP-1637 FPR Weld Fab Shop Inactivation	01OCT25	30SEP26
0LB021A	CPP-1638 Temporary Waste Storage Fa Inactivation	01OCT25	30SEP26
0LB041A	CPP-1676 Oil Hazardous Mat Bldg Inactivation	01OCT25	30SEP26
0LB125A	CPP-692 Waste Stack Monitor System Inactivation	01OCT25	30SEP26
0LB071A	CPP-626 Change Room Inactivation	01OCT27	29SEP28
0LST010	CPP 1774 Inactivation	01OCT28	30SEP29
0LB006A	CPP-1608 Contam Equip. Storage Inactivation	02OCT28	30SEP30
0LS48008	Turnover CPP 1774 to D&D		30SEP29
0LB002A	CPP-1604 Office Building Inactivation	01OCT29	30SEP30
0LB003A	CPP-1605 Engineering Support Bldg Inactivation	01OCT29	30SEP30



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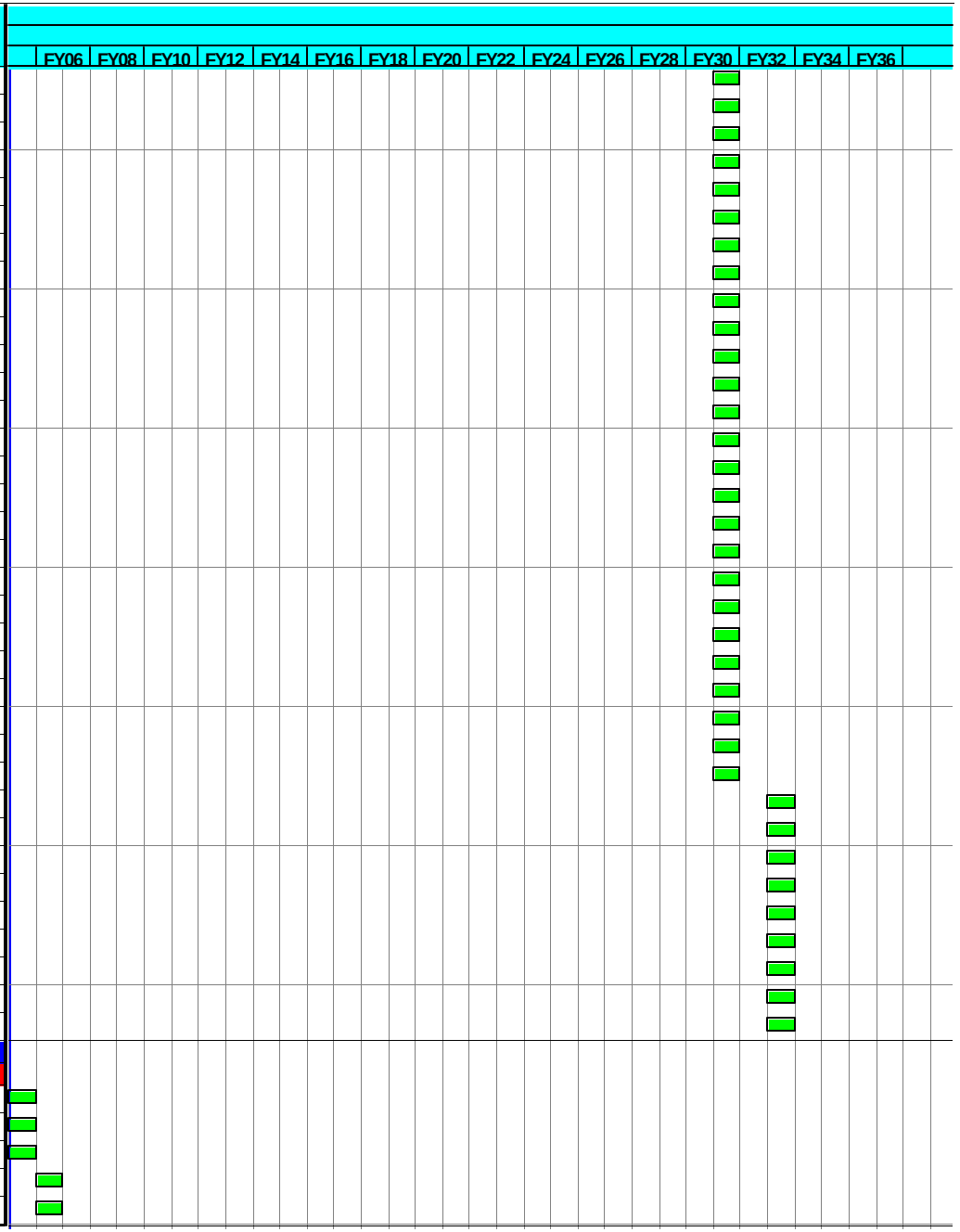
Idaho National Engineering and Environmental Laboratory

Activity ID	Activity Description	Early Start	Early Finish
0LB004A	CPP-1606 Plant Support Warehouse Inactivation	01OCT29	30SEP30
0LB007A	CPP-1610 Salt Pit Control House Inactivation	01OCT29	30SEP30
0LB017A	CPP-1634 Technology Dev Fac Inactivation	01OCT29	30SEP30
0LB025A	CPP-1646 Anti-C Safety Handling Inactivation	01OCT29	30SEP30
0LB031A	CPP-1656 Warehouse Inactivation	01OCT29	30SEP30
0LB037A	CPP-1671 Protective Force Sup Fac Inactivation	01OCT29	30SEP30
0LB039A	CPP-1673 Utility Control Center Inactivation	01OCT29	30SEP30
0LB040A	CPP-1674 Central Alarm Station Inactivation	01OCT29	30SEP30
0LB044A	CPP-1681 Box Staging Area Inactivation	01OCT29	30SEP30
0LB046A	CPP-1683 Waste Ops Ctrl Room Inactivation	01OCT29	30SEP30
0LB048A	CPP-1686 Access Control Fac Inactivation	01OCT29	30SEP30
0LB054A	CPP-606 Service Bldg Powerhouse Inactivation	01OCT29	30SEP30
0LB056A	CPP-609 Cold Waste Fac Office Inactivation	01OCT29	30SEP30
0LB057A	CPP-611 Water Well #1 Pumphouse Inactivation	01OCT29	30SEP30
0LB058A	CPP-612 Water Well #2 Pumphouse Inactivation	01OCT29	30SEP30
0LB059A	CPP-613 Substation #10 Inactivation	01OCT29	30SEP30
0LB060A	CPP-614 Diesel Engine Pumphouse Inactivation	01OCT29	30SEP30
0LB062A	CPP-616 Emergency Air Compressor Inactivation	01OCT29	30SEP30
0LB087A	CPP-645 Office Building Inactivation	01OCT29	30SEP30
0LB094A	CPP-652 Cafeteria/Offices Inactivation	01OCT29	30SEP30
0LB095A	CPP-653 Waste Handling Fac Inactivation	01OCT29	30SEP30
0LB097A	CPP-655 Craft Shop/Warehouse Inactivation	01OCT29	30SEP30
0LB102A	CPP-661 Guardhouse & VMF-2 Inactivation	01OCT29	30SEP30
0LB103A	CPP-662 Maintenance/Fab Shop Inactivation	01OCT29	30SEP30
0LB130A	CPP-697 East Guardhouse & VMF Inactivation	01OCT29	30SEP30
0LB16A	CPP-1631 Production Computer Supt Inactivation	01OCT29	30SEP30
0LB022A	CPP-1642 Fire Pumphouse Inactivation	01OCT31	30SEP32
0LB023A	CPP-1643 Fire Pumphouse Inactivation	01OCT31	30SEP32
0LB047A	CPP-1684 Standby Generator Fac Inactivation	01OCT31	30SEP32
0LB061A	CPP-615 Waste Water Treatment Plant Inactivation	01OCT31	30SEP32
0LB086A	CPP-644 Substation #20 Emer. Power Inactivation	01OCT31	30SEP32
0LB112A	CPP-674 UREP Substation #40 Inactivation	01OCT31	30SEP32
0LB113A	CPP-675 UREP Substation #30 Inactivation	01OCT31	30SEP32
0LB114A	CPP-677 UREP Load Center #2 Inactivation	01OCT31	30SEP32
0LB115A	CPP-679 Tent Fabrication Facility Inactivation	01OCT31	30SEP32
CPP-SP0 DOE-ID Funds			
CPP-SP0 DOE-ID FUNDS			
0LHLD001	HLW DOE-ID Funds	01OCT03	30SEP04
0LS70002	DOE-ID Dollars (SNF-102)	01OCT03	30SEP04
0LS70100	DOE-ID Dollars (SNF-103)	01OCT03	30SEP04
0LHLD003	HLW DOE-ID Funds	01OCT04	30SEP05
0LS70003	DOE-ID Dollars (SNF-102)	01OCT04	30SEP05



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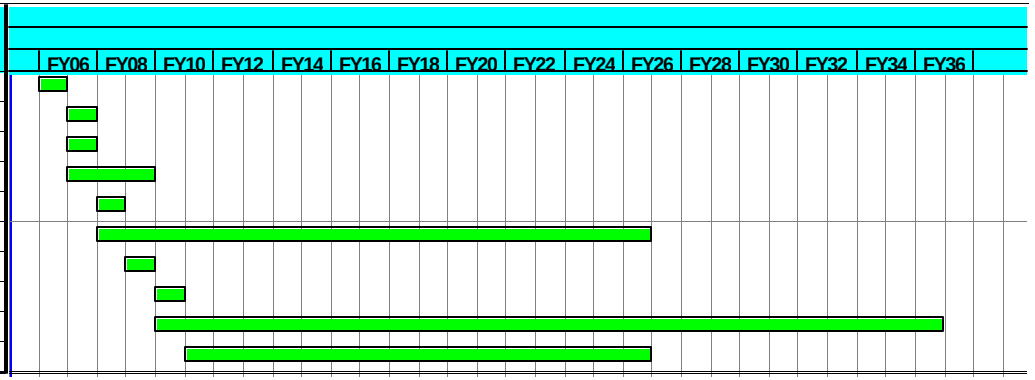
Activity ID	Activity Description	Early Start	Early Finish
0LS70102	DOE-ID Dollars (SNF-103)	01OCT04	30SEP05
0LHLD005	HLW DOE-ID Funds	03OCT05	29SEP06
0LS70104	DOE-ID Dollars (SNF-103)	03OCT05	29SEP06
0LS70004	DOE-ID Dollars (SNF-102)	03OCT05	30SEP08
0LHLD007	HLW DOE-ID Funds	02OCT06	28SEP07
0LS70106	DOE-ID Dollars (SNF-103)	02OCT06	30SEP25
0LHLD009	HLW DOE-ID Funds	01OCT07	30SEP08
0LS70005	DOE-ID Dollars (SNF-102)	01OCT08	30SEP09
0LHLD011	HLW DOE-ID Funds	01OCT08	28SEP35
0LS70006	DOE-ID Dollars (SNF-102)	01OCT09	30SEP25



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Lifecycle Baseline

INTEC Completion

Subproject Breakout by Control Account

WBS[5]		WBS[6]		Sep-04	Sep-05	Sep-06	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014
A.1.01.00.00 CPP-SP0 Project Support & Facility Authority														
	BURDENED BASE													
		A.1.01.00.00.01 CPP-SP0 Project Management	BCWS	13,109	12,713	13,673	13,673	13,783	14,584	14,584	12,910	11,345	10,945	10,945
		A.1.01.00.00.02 CPP-SP0 Operations	BCWS	18,498	20,344	21,140	20,357	20,521	20,439	20,439	24,886	12,862	11,352	11,251
		A.1.01.00.00.03 CPP-SP0 Facility Maintenance	BCWS	28,394	28,063	28,368	28,368	28,767	29,684	30,986	31,053	30,252	23,547	22,567
		A.1.01.00.00.04 CPP-SP0 Process Maintenance	BCWS	16,188	16,986	17,491	17,395	17,513	17,197	18,580	14,772	11,807	10,505	9,388
		A.1.01.00.00.05 CPP-SP0 Technical Services Support	BCWS	19,490	13,752	13,694	14,055	13,454	13,960	16,875	14,115	13,181	9,977	10,172
		A.1.01.00.00.06 CPP-SP0 Core Services Support	BCWS	1,055	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.00.07 CPP-SP0 Capital Projects	BCWS	8,147	25,864	24,509	30,859	11,087	17,433	7,105	5,906	4,009	5,139	4,502
		A.1.01.00.00.08 CPP-SP0 Facility Inactivation	BCWS	174	622	542	176	178	177	177	306	738	1,676	431
		A.1.01.00.00.09 CPP-SP0 DOE-ID Funds	BCWS	7,189	4,973	4,238	4,191	4,211	3,692	2,661	2,672	2,650	2,661	2,661
	Results... Totals:		**BCWS**	**112,243**	**123,316**	**123,654**	**129,075**	**109,513**	**117,166**	**111,406**	**106,619**	**86,844**	**75,801**	**71,917**
	ESCALATE													
		A.1.01.00.00.01 CPP-SP0 Project Management	BCWS	403	658	1,000	1,305	1,632	2,071	2,421	2,459	2,442	2,640	2,926
		A.1.01.00.00.02 CPP-SP0 Operations	BCWS	574	1,061	1,559	1,959	2,446	2,917	3,408	4,700	2,767	2,738	3,008
		A.1.01.00.00.03 CPP-SP0 Facility Maintenance	BCWS	852	1,449	2,086	2,718	3,418	4,224	5,153	5,925	6,527	5,682	6,035
		A.1.01.00.00.04 CPP-SP0 Process Maintenance	BCWS	487	876	1,283	1,668	2,078	2,447	3,077	2,806	2,535	2,522	2,506
		A.1.01.00.00.05 CPP-SP0 Technical Services Support	BCWS	581	714	1,007	1,350	1,600	1,990	2,813	2,701	2,849	2,417	2,724
		A.1.01.00.00.06 CPP-SP0 Core Services Support	BCWS	27	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.00.07 CPP-SP0 Capital Projects	BCWS	213	1,213	1,689	2,819	1,259	2,389	1,140	1,092	844	1,203	1,170
		A.1.01.00.00.08 CPP-SP0 Facility Inactivation	BCWS	5	32	40	17	21	25	30	59	159	404	115
		A.1.01.00.00.09 CPP-SP0 DOE-ID Funds	BCWS	151	211	272	363	461	490	417	483	545	615	684
	Results... Totals:		**BCWS**	**3,294**	**6,213**	**8,936**	**12,199**	**12,917**	**16,556**	**18,458**	**20,225**	**18,668**	**18,221**	**19,167**
	SUMMARY (Base + Escalation)													
		A.1.01.00.00.01 CPP-SP0 Project Management	BCWS	13,512	13,371	14,674	14,978	15,415	16,655	17,005	15,369	13,788	13,586	13,871
		A.1.01.00.00.02 CPP-SP0 Operations	BCWS	19,072	21,405	22,699	22,316	22,967	23,356	23,847	29,586	15,629	14,090	14,259
		A.1.01.00.00.03 CPP-SP0 Facility Maintenance	BCWS	29,245	29,511	30,454	31,086	32,185	33,908	36,138	36,977	36,779	29,229	28,602
		A.1.01.00.00.04 CPP-SP0 Process Maintenance	BCWS	16,675	17,862	18,773	19,063	19,592	19,644	21,657	17,578	14,341	13,026	11,894
		A.1.01.00.00.05 CPP-SP0 Technical Services Support	BCWS	20,071	14,466	14,701	15,405	15,054	15,950	19,688	16,816	16,030	12,394	12,896
		A.1.01.00.00.06 CPP-SP0 Core Services Support	BCWS	1,081	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.00.07 CPP-SP0 Capital Projects	BCWS	8,361	27,077	26,197	33,678	12,346	19,823	8,245	6,998	4,852	6,342	5,672
		A.1.01.00.00.08 CPP-SP0 Facility Inactivation	BCWS	179	654	582	193	199	202	206	365	897	2,081	546
		A.1.01.00.00.09 CPP-SP0 DOE-ID Funds	BCWS	7,340	5,184	4,510	4,554	4,672	4,183	3,078	3,155	3,195	3,276	3,345
	Results... Totals:		**BCWS**	**115,537**	**129,530**	**132,590**	**141,274**	**122,430**	**133,721**	**129,864**	**126,844**	**105,512**	**94,022**	**91,084**

Thousands of $

INTEC Completion

Subproject Breakout by Control Account

WBS[5]		WBS[6]		FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
A.1.01.00.00 CPP-SP0 Project Support & Facility Authority														
	BURDENED BASE													
		A.1.01.00.00.01 CPP-SP0 Project Management	BCWS	11,017	11,061	10,972	10,972	11,017	10,983	10,127	10,127	8,673	8,708	8,708
		A.1.01.00.00.02 CPP-SP0 Operations	BCWS	11,328	15,899	11,282	11,282	11,328	11,104	16,202	11,104	6,242	6,267	6,267
		A.1.01.00.00.03 CPP-SP0 Facility Maintenance	BCWS	22,300	22,389	22,210	22,210	22,300	22,473	20,520	20,516	19,378	19,452	19,167
		A.1.01.00.00.04 CPP-SP0 Process Maintenance	BCWS	9,831	9,976	9,284	9,296	9,298	9,128	9,128	9,128	5,248	5,256	5,256
		A.1.01.00.00.05 CPP-SP0 Technical Services Support	BCWS	7,915	7,947	7,883	7,883	7,915	7,866	5,764	5,764	4,288	4,305	4,305
		A.1.01.00.00.06 CPP-SP0 Core Services Support	BCWS	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.00.07 CPP-SP0 Capital Projects	BCWS	9,950	4,951	4,711	1,067	2,501	7,868	2,674	3,832	3,262	3,619	2,295
		A.1.01.00.00.08 CPP-SP0 Facility Inactivation	BCWS	567	179	178	185	178	924	1,094	420	417	178	672
		A.1.01.00.00.09 CPP-SP0 DOE-ID Funds	BCWS	2,661	2,672	2,650	2,650	2,661	2,672	2,672	2,672	2,650	2,661	2,661
	Results... Totals:		**BCWS**	**75,568**	**75,073**	**69,172**	**65,547**	**67,197**	**73,018**	**68,180**	**63,563**	**50,158**	**50,447**	**49,332**
	ESCALATE													
		A.1.01.00.00.01 CPP-SP0 Project Management	BCWS	3,237	3,550	3,827	4,137	4,473	4,783	4,716	5,028	4,579	4,877	5,162
		A.1.01.00.00.02 CPP-SP0 Operations	BCWS	3,329	5,074	3,935	4,255	4,599	4,836	7,506	5,513	3,298	3,512	3,718
		A.1.01.00.00.03 CPP-SP0 Facility Maintenance	BCWS	6,555	7,190	7,749	8,378	9,057	9,799	9,559	10,189	10,233	10,896	11,365
		A.1.01.00.00.04 CPP-SP0 Process Maintenance	BCWS	2,880	3,194	3,235	3,502	3,771	3,971	4,247	4,527	2,768	2,941	3,113
		A.1.01.00.00.05 CPP-SP0 Technical Services Support	BCWS	2,327	2,552	2,751	2,974	3,215	3,427	2,680	2,857	2,260	2,407	2,548
		A.1.01.00.00.06 CPP-SP0 Core Services Support	BCWS	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.00.07 CPP-SP0 Capital Projects	BCWS	2,858	1,551	1,604	396	1,000	3,378	1,228	1,877	1,700	2,002	1,344
		A.1.01.00.00.08 CPP-SP0 Facility Inactivation	BCWS	167	58	62	70	73	403	509	209	220	100	399
		A.1.01.00.00.09 CPP-SP0 DOE-ID Funds	BCWS	754	829	895	969	1,050	1,132	1,212	1,294	1,366	1,456	1,543
	Results... Totals:		**BCWS**	**22,107**	**23,998**	**24,057**	**24,681**	**27,237**	**31,729**	**31,657**	**31,494**	**26,425**	**28,191**	**29,192**
	SUMMARY (Base + Escalation)													
		A.1.01.00.00.01 CPP-SP0 Project Management	BCWS	14,253	14,611	14,799	15,110	15,489	15,766	14,844	15,155	13,253	13,585	13,870
		A.1.01.00.00.02 CPP-SP0 Operations	BCWS	14,656	20,973	15,217	15,537	15,927	15,940	23,709	16,617	9,540	9,780	9,985
		A.1.01.00.00.03 CPP-SP0 Facility Maintenance	BCWS	28,855	29,578	29,960	30,589	31,357	32,272	30,080	30,705	29,611	30,348	30,532
		A.1.01.00.00.04 CPP-SP0 Process Maintenance	BCWS	12,711	13,171	12,519	12,798	13,069	13,099	13,374	13,655	8,015	8,197	8,369
		A.1.01.00.00.05 CPP-SP0 Technical Services Support	BCWS	10,242	10,499	10,634	10,857	11,130	11,293	8,443	8,621	6,548	6,712	6,853
		A.1.01.00.00.06 CPP-SP0 Core Services Support	BCWS	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.00.07 CPP-SP0 Capital Projects	BCWS	12,809	6,502	6,315	1,463	3,501	11,246	3,902	5,710	4,962	5,621	3,639
		A.1.01.00.00.08 CPP-SP0 Facility Inactivation	BCWS	734	237	240	255	251	1,327	1,603	629	638	278	1,071
		A.1.01.00.00.09 CPP-SP0 DOE-ID Funds	BCWS	3,415	3,500	3,545	3,620	3,711	3,804	3,884	3,965	4,016	4,117	4,203
	Results... Totals:		**BCWS**	**97,675**	**99,071**	**93,229**	**90,228**	**94,434**	**104,747**	**99,838**	**95,057**	**76,583**	**78,637**	**78,524**

Thousands of $

INTEC Completion

Subproject Breakout by Control Account

WBS[5]		WBS[6]		FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	FY 2035	Cumulative
A.1.01.00.00 CPP-SP0 Project Support & Facility Authority														
	BURDENED BASE													
		A.1.01.00.00.01 CPP-SP0 Project Management	BCWS	8,708	8,708	8,743	7,666	3,625	0	0	0	0	0	292,082
		A.1.01.00.00.02 CPP-SP0 Operations	BCWS	11,512	5,880	5,903	5,304	10,729	0	0	0	0	0	359,722
		A.1.01.00.00.03 CPP-SP0 Facility Maintenance	BCWS	18,838	18,086	18,105	17,869	12,874	13,302	13,011	12,048	11,952	11,952	691,000
		A.1.01.00.00.04 CPP-SP0 Process Maintenance	BCWS	5,256	5,256	5,277	4,809	4,829	0	0	0	0	0	284,074
		A.1.01.00.00.05 CPP-SP0 Technical Services Support	BCWS	4,305	4,305	4,322	4,039	3,941	0	0	0	0	0	245,471
		A.1.01.00.00.06 CPP-SP0 Core Services Support	BCWS	0	0	0	0	0	0	0	0	0	0	1,055
		A.1.01.00.00.07 CPP-SP0 Capital Projects	BCWS	3,514	1,578	1,028	2,180	2,948	0	0	0	0	0	202,537
		A.1.01.00.00.08 CPP-SP0 Facility Inactivation	BCWS	597	178	256	741	5,993	0	797	0	0	0	18,752
		A.1.01.00.00.09 CPP-SP0 DOE-ID Funds	BCWS	451	451	452	449	451	451	452	452	449	449	75,586
	Results... Totals:		**BCWS**	**53,181**	**44,441**	**44,087**	**43,058**	**45,389**	**13,752**	**14,261**	**12,501**	**12,401**	**12,401**	**2,170,278**
	ESCALATE													
		A.1.01.00.00.01 CPP-SP0 Project Management	BCWS	5,454	5,751	6,079	5,602	2,784	0	0	0	0	0	93,996
		A.1.01.00.00.02 CPP-SP0 Operations	BCWS	7,167	3,885	4,106	3,882	8,187	0	0	0	0	0	103,940
		A.1.01.00.00.03 CPP-SP0 Facility Maintenance	BCWS	11,799	11,947	12,590	13,062	9,881	10,701	10,960	10,616	11,003	11,484	259,082
		A.1.01.00.00.04 CPP-SP0 Process Maintenance	BCWS	3,289	3,468	3,666	3,515	3,704	0	0	0	0	0	78,076
		A.1.01.00.00.05 CPP-SP0 Technical Services Support	BCWS	2,692	2,839	3,001	2,946	3,019	0	0	0	0	0	65,239
		A.1.01.00.00.06 CPP-SP0 Core Services Support	BCWS	0	0	0	0	0	0	0	0	0	0	27
		A.1.01.00.00.07 CPP-SP0 Capital Projects	BCWS	2,175	1,030	707	1,576	2,239	0	0	0	0	0	41,696
		A.1.01.00.00.08 CPP-SP0 Facility Inactivation	BCWS	374	118	179	543	4,596	0	671	0	0	0	9,660
		A.1.01.00.00.09 CPP-SP0 DOE-ID Funds	BCWS	276	291	308	322	339	356	374	392	406	424	20,679
	Results... Totals:		**BCWS**	**33,227**	**29,329**	**30,634**	**31,448**	**34,748**	**11,057**	**12,005**	**11,007**	**11,409**	**11,908**	**672,395**
	SUMMARY (Base + Escalation)													
		A.1.01.00.00.01 CPP-SP0 Project Management	BCWS	14,162	14,459	14,821	13,268	6,409	0	0	0	0	0	386,078
		A.1.01.00.00.02 CPP-SP0 Operations	BCWS	18,680	9,765	10,009	9,186	18,915	0	0	0	0	0	463,662
		A.1.01.00.00.03 CPP-SP0 Facility Maintenance	BCWS	30,637	30,033	30,694	30,931	22,755	24,003	23,972	22,664	22,956	23,437	950,082
		A.1.01.00.00.04 CPP-SP0 Process Maintenance	BCWS	8,545	8,724	8,943	8,324	8,533	0	0	0	0	0	362,150
		A.1.01.00.00.05 CPP-SP0 Technical Services Support	BCWS	6,997	7,144	7,323	6,985	6,960	0	0	0	0	0	310,710
		A.1.01.00.00.06 CPP-SP0 Core Services Support	BCWS	0	0	0	0	0	0	0	0	0	0	1,081
		A.1.01.00.00.07 CPP-SP0 Capital Projects	BCWS	5,689	2,608	1,734	3,757	5,187	0	0	0	0	0	244,233
		A.1.01.00.00.08 CPP-SP0 Facility Inactivation	BCWS	972	296	435	1,284	10,589	0	1,468	0	0	0	28,411
		A.1.01.00.00.09 CPP-SP0 DOE-ID Funds	BCWS	727	742	761	770	790	806	827	844	855	873	96,265
	Results... Totals:		**BCWS**	**86,408**	**73,771**	**74,721**	**74,506**	**80,137**	**24,809**	**26,266**	**23,508**	**23,810**	**24,309**	**2,842,674**

Thousands of $

SUBPROJECT PLAN

WBS: A.1.01.00.01
Title: INTEC-SP1 Wet SNF to Dry & SNF Consolidation

Subproject Mgr:	**TBD**	**Planning & Controls:**	**Blaine Johnson**
DOE-ID:	**TBD**	**ES&H Field Manager:**	**Corrinne Jones**
INTEC Manager:	**Richard Loos**	**Other:**	

1. WORK DESCRIPTION:

The objective of this subproject is to accelerate transfer of spent nuclear fuel (SNF) from wet to dry storage and consolidation of SNF at the Idaho Nuclear Technology and Engineering Center (INTEC) and to deactivate and/or close the wet storage facilities and basins.

The scope of this subproject is to remove all SNF stored in pools at CPP-666, and to remove the water and sludges from the CPP-603 basins per the terms of the Idaho Settlement Agreement by December 31, 2023. The SNF stored in the CPP-666 underwater storage pools will be moved to the dry fuel storage side of the CPP-603 (Irradiated Fuel Storage Facility [IFSF]), Argonne National Laboratory-West, or the Naval Reactors Facility. The water in the CPP-603 basins will be removed and disposed. In addition, this subproject scope includes the receipt and storage of Foreign Research Reactor and Domestic Research Reactor SNF at IFSF per the Spent Nuclear Fuel Programmatic Environmental Impact Statement/Record of Decision. This subproject scope includes completion of the final eight shipments of Power Burst Facility (PBF) SNF from PBF to IFSF for receipt and storage per the Idaho National Engineering and Environmental Laboratory (INEEL) commitment to the state of Idaho, and receipt of fourteen shipments of Advanced Test Reactor SNF from the Test Reactor Area to IFSF per year during the FY 2006 through 2010 timeframe. This subproject also includes closure of the water treatment systems at CPP-603, which are subject to Voluntary Consent Order (VCO) hazard assessments and follow on actions, as needed, VES-SF-106, which is subject to Resource Conservation and Recovery Act (RCRA) closure, and VES-SFE-20, which is subject to Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) remedial action.

This subproject will be complete when all current wet-stored SNF is moved to existing dry storage, the water is removed from the CPP-603 basins and disposed, all planned Foreign Research Reactor and Domestic Research Reactor receipts have been completed and placed into existing dry storage, all PBF SNF receipts have been completed and placed into existing dry storage, seventy shipments of Advanced Test Reactor (ATR) SNF have been received and placed into existing dry storage at IFSF and all required INTEC basin/pool facility VCO, RCRA Closure, and CERCLA remedial actions are complete.

INTEC-SP1 END STATE DESCRIPTION

All Environmental Management wet fuel transferred to existing dry storage, Foreign Research Reactor, Domestic Research Reactor, PBF and ATR SNF received and placed into existing dry storage, CPP-603 basin area is cold, dark, and dry, CPP-666 pools ready to begin closure, and assigned VCOs characterized and closed as required.

DETAILS OF SUBPROJECT SCOPE

This subproject is comprised of three major groups of activities. The first group of activities will complete the transfer of SNF from wet to some form of dry storage. These activities all are focused at CPP-666. The second group of activities facilitates the consolidation of SNF storage; it is focused on receipts of SNF at IFSF. The last group of activities is focused on closure of the storage basins and associated systems (CPP-603) and pools (CPP-666). The control account plans for these activities are described below:

Transferring all SNF from Wet to Dry Storage

A.1.01.00.01.01 CPP-666 Onsite SNF Receipts: This subproject element is responsible for all the activities associated with the receipt and safe interim storage of ATR SNF to be transferred from the Test Reactor Area to CPP-666 at the INEEL. This activity includes all the fuel handling, handling tools, detailed fuel movement planning, fuel receipt criteria documentation, data package reviews, criticality safety, and nuclear materials security accountability.

A.1.01.00.01.02 CPP-666 Transferred DOE Fuel: This subproject element provides for completion of removal of U. S. Department of Energy (DOE)-owned SNF from the CPP-666 underwater storage pools by September 30, 2011. Removal of all SNF from underwater storage is required by December 31, 2012, per the Idaho Settlement Agreement. Receipts will be complete by the end of FY 2005, and transfers will continue through September 2011. This activity includes all management, operations, and facility maintenance necessary to safely and successfully accomplish this mission.

The DOE-owned SNF will be transferred to the IFSF at INTEC for interim dry storage or, in the case of the sodium-bearing Experimental Breeder Reactor II (EBR-II) fuels, to a treatment facility. This activity includes preparations for transfer (e.g., project definition, equipment design/fabrication or lease, safety documentation, procedures and training, certification of readiness, and documentation for transfer) and the transfer of the SNF (e.g., fuel repackaging, cask loading, and cask transfer). Fuel unloading, drying (if necessary), and placement into storage (for those fuels destined for IFSF) are also included.

A.1.01.00.01.03 CPP-666 Transferred Navy Fuel: This subproject element provides for removal of Naval SNF from the CPP-666 underwater storage pools by September 30, 2009, based on Naval Reactors Facility receipt projections. This activity includes preparations for transfer (e.g., project definition, safety documentation, procedures and training, and certification of readiness) and the transfer of SNF (e.g., fuel handling, cask loading, and cask transfer to the receiving facility). The Naval SNF will be transferred to the Naval Reactors Facility.

Consolidation of SNF Storage at IFSF

A.1.01.00.01.04 IFSF Fuel Receipts: The IFSF will be used to store SNF until the end of FY 2033. The IFSF will also receive, process through the Fuel Canning Station and place into dry storage within the IFSF facility, SNF shipped from ATR presently in storage at CPP-666, to be received at CPP-666 through FY 2005, and then shipped directly to the IFSF from ATR in the FY 2006 through FY 2010 timeframe. By January 1, 2035, the IFSF will be transitioned over to the Deactivation Program for surveillance and maintenance until decommissioning and dismantlement is completed.

This subproject element provides labor, equipment, materials, and subcontracted activities needed to perform routine maintenance (surveillance and monitoring) of the IFSF and the SNF stored within the dry storage area. The maintenance of IFSF facilities includes the labor, equipment, materials and subcontracted activities needed to ensure the safe and efficient use of the facility through FY 2034. The IFSF is projected to provide interim dry storage capabilities for SNF at the INEEL until the SNF is ready to go to the Spent Nuclear Fuel Dry Storage Project facility.

This subproject element also includes General Plant Projects and the General Purpose Capital Equipment purchases needed to maintain the IFSF in a safe, compliant, and structurally and mechanically functional condition for the duration of its use as an interim storage facility for SNF.

A.1.01.00.01.05 Foreign Research Reactor Receipts: This subproject element is responsible for all the activities associated with the acceptance and safe interim storage of the DOE-Environmental Management owned SNF to be transferred from foreign countries such as Indonesia (Bandung and Yogyakarta) to the INEEL. This activity includes all the fuel handling, handling tools, detailed fuel movement planning, fuel receipt criteria documentation, data package reviews, criticality safety, nuclear materials security accountability, readiness review, interface support relationship between the foreign countries and the INEEL, and project management.

A.1.01.00.01.06 Domestic SNF Receipts and Shipments: This subproject element is responsible for all the activities associated with the acceptance and safe interim storage of SNF to be transferred from universities, other DOE sites, and government installations to the INEEL. These subproject activities include the design and fabrication of the handling tools, detailed fuel movement planning, fuel receipt criteria documentation, criticality safety, nuclear materials security accountability, dry run of the transfer operation with dummy components, and a preliminary readiness review.

A.1.01.00.01.07 PBF Transferred Fuel: This subproject element is responsible for all the activities associated with the receipt of SNF transferred from the PBF. The activities include preparation and administration of the training necessary to ensure workers are prepared to receive and place the PBF SNF in storage at IFSF, preparation and support of all necessary readiness reviews, safety requirements and approvals to carry out the transfers.

Closure of Storage Basins/Pools and Associated Facilities

A.1.01.00.01.08 Characterization Activities CPP-603: The VCO Action Plan was negotiated with the Idaho Department of Environmental Quality to address potential RCRA violations at the INEEL. The objective of this subproject element is to complete the RCRA closure for the CPP-603 Basin Water Treatment System tanks listed in the NEW-CPP-016 inventory as required by the VCO Action Plan. RCRA closure actions for the four tanks listed in the SITE-TANK-005 Action Plan under INTEC-077 and INTEC-078 tanks systems will be included in this control account as components of the CPP-603 Basin Water Treatment System. The scope of work consists of completing tank isolations, emptying tanks, dewatering, stabilizing and disposing of the resulting hazardous or mixed waste. Upon removal of waste from the tank systems (including ancillary equipment), these systems will be flushed and RCRA clean closure will be completed. The tanks may require removal and management as waste to meet clean closure performance standards. Isolation of the tanks includes identifying isolation points, installing isolations, disconnecting or disabling any associated instrumentation, and completing the as-built plant drawings. Hazardous waste disposal will consist of packing waste containers, transporting waste and flush water removed from tanks to a designated disposal site, and performing disposal characterization/sampling activities. Mixed waste disposal will include packaging waste containers, pretreatment/stabilization of waste, transportation of waste to a designated disposal site, decontamination, and sampling activities.

A.1.01.00.01.09 CPP-603 Basin Deactivation: This subproject element describes the requirements and the activities that will be performed to deactivate the underwater fuel storage basins (CPP-603) located at INTEC. These activities include removing the contents of the fuel storage basins, including the basin water, and stabilization of the basins by filling them with grout. This subproject element is designed to reduce the risk to human health and to the environment and to reduce the cost of surveillance and maintenance. In addition to the activities described above, this effort also includes performing document control for deactivation activities, providing project interface with internal and external customers, providing subject matter expert and engineering oversight for CPP-603 deactivation activities, and providing technical direction on an as-needed basis to resolve problems and technical issues as identified, as well as providing for overall project direction and support and project management oversight activities.

A.1.01.00.01.10 CPP-666 Pool Deactivation: This subproject element provides for overall project direction and support and project management oversight activities. This includes performing planning, scheduling, and statusing for deactivation of INTEC Fluorinel and Fuel Storage (CPP-666). This also includes performing document control for deactivation activities, providing project interface with internal and external customers, providing subject matter expert and engineering oversight for CPP-666 deactivation projects, and providing technical direction on an as-needed basis to resolve problems and technical issues as identified.

Subproject Management and Administration

A.1.01.00.01.11 Project Management and Administration: This subproject element provides project management and administration oversight activities and overall project direction and support. It includes overall project planning, scheduling and statusing, document control, and project interfaces with internal and external customers. It provides engineering, environmental and quality subject matter expertise as required and provides technical direction on an as-needed basis to resolve problems and technical issues when they are encountered in the execution of the subproject.

2. MAJOR PRODUCTS AND DELIVERABLES:

Transferring All SNF from Wet to Dry Storage

- Safe interim storage of all fuels.
- Completion of all SNF preparations for transfer activities and completion of scheduled transfers.
- Transition of the CPP-666 facility to the Deactivation Program for disposition according to the INEEL Institutional Plan.

Consolidation of SNF Storage at IFSF

- IFSF emptied of SNF project documents and project baselines (scope, cost, and schedule).
- Management of controlled documents through document action request system.
- Management of maintenance activities at IFSF through the work control system. Archiving of work order records. Plant operations summary reports (daily), occurrence reports, and critique reports.
- TRIGA and Peach Bottom SNF transferred from IFSF to the Spent Nuclear Fuel Dry Storage Project.
- Aluminum plate SNF transferred from IFSF to the Savannah River Site.
- Canisters of all other fuel types transferred from IFSF to Spent Nuclear Fuel Dry Storage Project.
- Fourteen ATR receipts are placed into interim dry storage at IFSF on an annual basis for the period from FY 2006 through FY 2010.
- Corrective/preventive maintenance activities on utility systems and electrical distribution systems (i.e., including evaluations/upgrades, database updates, and electrical outage support).
- Calibrated instruments, records, reports, database updates (drift and reliability analysis) for process instrumentation and to support ongoing operations.
- Maintained and calibrated radiation instrumentation.
- Sampling and analysis of waste streams.
- Facility safety analysis report updates (annually).
- All fuel removed from IFSF by September 30, 2033.
- Turnover of IFSF to Decommissioning and Dismantlement by September 30, 2034.

Closure of Storage Basins/Pools and Associated Facilities

- Approved Hazardous Waste Management Act/RCRA Closure Plan for the VES-SFE-106 Waste Tank System.
- Approved Environmental Checklist and all other environmental documents identified by the Environmental Checklist.
- Idaho Department of Environmental Quality acceptance of the Certification of Closure of the VES-SFE-106 Waste Tank System.
- DOE approved engineering evaluation/cost analysis.
- A risk assessment evaluating the all contaminants remaining in the INTEC-603 Basins.
- A Waste Management Plan for INTEC-603 Basin Deactivation.
- Final RCRA Closure Plan.
- Completed the CPP-603 Basin Water Treatment System RCRA Closure.
- RCRA Closure Certification.

3. ESTIMATE DEVELOPMENT BASIS:

In general, cost estimates are based upon activity-based, bottoms-up cost estimates. Project teams used a number of resources to develop these estimates including:

- Bechtel BWXT Idaho, LLC (BBWI) Cost Estimating Department.
- Actual costs.
- Project team evaluations.
- Subject matter experts and engineering judgment.

- Support work organizations.
- Approved baseline (Detailed Work Plan and outyear Planning Packages).
- Original Life-Cycle Baseline Plans.

4. ASSUMPTIONS:

- The Idaho Settlement Agreement milestone to complete the removal of all SNF from wet storage and into dry storage by December 31, 2023, will not be revised or renegotiated.
- The DOE Environmental Impact Statements and Records of Decision will be followed as they presently exist except that the Programmatic SNF Management and INEEL Environmental Remediation and Waste Management Programs Environmental Impact Statements Records of Decision published in the Federal Register on June 1, 1995, will be modified to eliminate the transfer of aluminum clad SNF from the INEEL to the Savannah River Site, and the transfer of non-aluminum clad SNF from Savannah River to the INEEL. These SNF types will be dispositioned to the Monitored Geologic Repository directly from the sites where they are presently stored.
- Each of the SNF storage facilities will be maintained in accordance with its approved authorization agreement as applicable.
- The Navy SNF stored in CPP-666 will be returned to the Naval Reactors Facility during the period of FY 2007 through 2012.
- All DOE-owned SNF will be removed from CPP-666 by September 30, 2012.
- Each SNF facility will be transitioned to INTEC SP6 for final disposition within one year of the final removal of SNF from the facility.
- The treatment and conditioning technologies necessary to make existing INEEL DOE-owned SNF acceptable at the Monitored Geologic Repository will be developed and deployed as needed to support the approved transportation schedule.
- ATR aluminum-clad SNF will be transferred from the Test Reactor Area to CPP-666 in FY 2004 and FY 2005 only. Beginning in FY 2006 it will be transferred directly to IFSF as the responsibility of Nuclear Energy.
- Disposition of the water from the SNF facilities at CPP-603 basins will be performed under INTEC-SP1.
- Disposition of the water from the SNF facilities at the CPP-666 pools will be performed under INTEC-SP6.
- Argonne National Laboratory-West will be responsible for the receipt, treatment, and disposition of the Experimental Breeder Reactor-II (EBR-II) sodium-bonded SNF presently stored in CPP-666.
- No Generic Fuel Objects will be found during basin scanning.
- The CPP-603 Basins will be closed under CERCLA as a Non-Time Critical Removal Action.
- A risk assessment will be performed allowing the sludge and three hot radioactive waste boxes to be grouted in place.
- The basin water will be allowed to evaporate over an eight-year period with grout being added to the basins periodically as the water level drops.
- Tanks have been determined to be RCRA hazardous, thus requiring interim actions and further tiered milestones. The further actions will be RCRA closure of the system.
- The CPP-603 Basin Water Treatment System hazardous tank components have been identified.
- The SITE-TANK-005 systems (INTEC-077 and INTEC-078) will be closed in conjunction with this system. All costs associated with these systems are included in this control account.

- All discharge piping will be closed as part of the VES-SFE-106 or SFE-126 RCRA Closure and are not part of this closure.
- Tank removal will be funded in this control account.
- The Foster-Wheeler privatized Spent Nuclear Fuel Dry Storage Project startup will be December 2005 versus the Performance Management Plan April 2004.
- Space limitations will not impact the schedule for the VCO Basin Water Treatment Closure Project, NEW-CPP-016, full access will be required from March 2004 through April 2005 in the north-south and east-west truck bays and from March 2005 through January 2006 in the south basin truck bay.
- Peach Bottom fuel transfers from the Fuel Element Cutting Facility cave will be complete prior to March 2004 or will occur after January 2006 to eliminate conflicts with the VCO Basin Water Treatment Closure Project, NEW-CPP-016.
- Tanks have been determined to be RCRA hazardous, thus requiring interim actions and further tiered milestones. The further actions will be RCRA closure of the system. The CPP-603 Basin Water Treatment System hazardous tank components are identified as follows:

  98CPP00610 F-SF-113 Multimedia Sand Filter

  98CPP00611 F-SF-114 Multimedia Sand Filter

  98CPP00612 F-SF-115 Multimedia Sand Filter

  98CPP00619 VES-SF-108 Filter Backwash Holding Tank

  98CPP00620 VES-SF-109 Collection Tank, Clarifier Vessel

  98CPP00631 VES-SF-130 Acid Regeneration Makeup Tank

  98CPP00632 VES-SF-131 Duolite C-464 Resin Tank

- The SITE-TANK-005 SYSTEMS (INTEC-007 and INTEC-078) will be closed in conjunction with these systems. All costs associated with these systems are included in this control account. These include:

  Tank System INTEC-077

  98CPP00614 VES-SF-101 Ion Exchange Vessel

  98CPP00615 VES-SF-102 Ion Exchange Vessel

  Tank System INTEC-078

  98CPP00636 VES-SF-140 Reverse Osmosis Acid Feed Tank

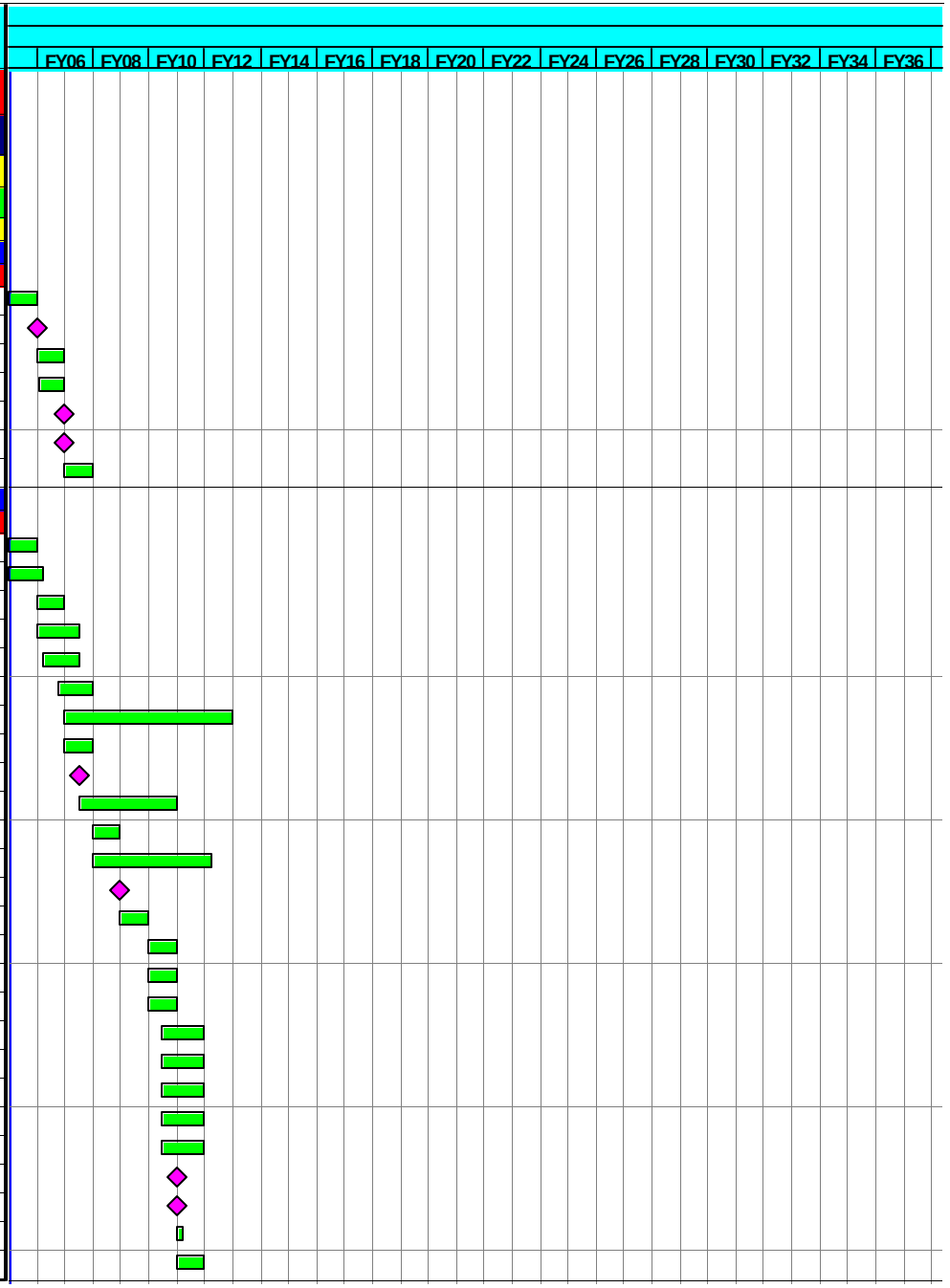
  98CPP00638 VES-SFE-133 Portable Acid Tank

- This plan assumes that closure of this tank system will be separate from other closure activities that may occur in CPP-603 and that no interface or schedule conflicts will arise.

5. SCIENCE AND TECHNOLOGY NEEDS

Science and Technology Need Number	Science and Technology Need Description
None Identified	

Activity ID	Activity Description	Early Start	Early Finish
INEEL			
EM Project			
INTEC Completion			
INTEC Completion			
CPP-SP1 Wet SNF to Dry & SNF Consolidation			
CPP-666 On-Site Receipts			
CPP-666 On-Site Receipts			
1LS29007	CPP-666 ATR Fuel Receipts (FY04)	01OCT03	30SEP04
1LS27507	Dur FY04 Cplt 14 ATR receipts at CPP-666		30SEP04*
1LCADJ02	FY-05 Contingency Adjustment (-75%)	01OCT04*	30SEP05
1LS29200	CPP-666 ATR Fuel Receipts (FY05)	29OCT04*	30SEP05
1LS29006	Receipt/store ATR fuels in ATR cask complete		30SEP05*
1LS29008	Establ end date w/NE to discontinue ATR receipts		30SEP05*
1LCADJ03	FY06 Contingency Adjustment (+75% FY05)	01OCT05*	30SEP06
CPP-666 Transferred DOE Fuel			
CPP-666 Transferred DOE Fuel			
1LCADJ04	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
1LS27121	FERMI Fuel - Preparations	01OCT03*	23DEC04
1LCADJ05	FY05 Contingency Adjustment (-75%)	01OCT04	30SEP05
1LS27111	Aluminum Fuel - Preparations	01OCT04*	31MAR06
1LS27122	FERMI Fuel - Transfers	03JAN05	31MAR06
1LS27101	EBR-II Fuel - Preparations	01JUL05*	29SEP06
1LCADJ06	FY06 toFY11 Contingency Adjustment (+75% FY05)	01OCT05*	30SEP11
1LS27141	TRIGA Fuel - Preparations	03OCT05*	29SEP06
1LS27123	FERMI Fuel - Transfers Complete		31MAR06
1LS27112	Aluminum Fuel - Transfers	03APR06*	30SEP09
1LS27142	TRIGA Fuel - Transfers	02OCT06*	28SEP07
1LS27102	EBR-II Fuel - Transfers	02OCT06	24DEC10
1LS27143	TRIGA Fuel - Transfers Complete		28SEP07
1LS27131	Borax V/Pathfinder Fuel - Preparations	01OCT07*	26SEP08
1LS27132	Borax V/Pathfinder Fuel - Transfers	29SEP08*	29SEP09
1LS27151	AI/SNAP Fuel - Preparations	01OCT08*	30SEP09
1LS27161	TORY-IIA Fuel - Preparations	01OCT08*	30SEP09
1LS27211	Misc. CAN-SF-94 - Preparations	01APR09*	30SEP10
1LS27221	Misc. GCRE/TRIGA FLIP - Preparations	01APR09*	30SEP10
1LS27231	Misc. Buffalo PULSTAR - Preparations	01APR09*	30SEP10
1LS27241	Misc. SM1A - Preparations	01APR09*	30SEP10
1LS27251	Misc. GETR Filters - Preparations	01APR09*	30SEP10
1LS27133	Borax V/Pathfinder Fuel - Transfers Complete		29SEP09*
1LS27113	Aluminum Fuel - Transfers Complete		30SEP09
1LS27152	AI/SNAP Fuel - Transfers	01OCT09*	24DEC09
1LS27171	PWR Fuel - Preparations	01OCT09*	30SEP10



Start Date 01OCT03
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Early Bar
Progress Bar
Critical Activity

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PBS A- INTEC Completion
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Wet SNF to Dry & SNF Consolidation

Lifecycle Baseline

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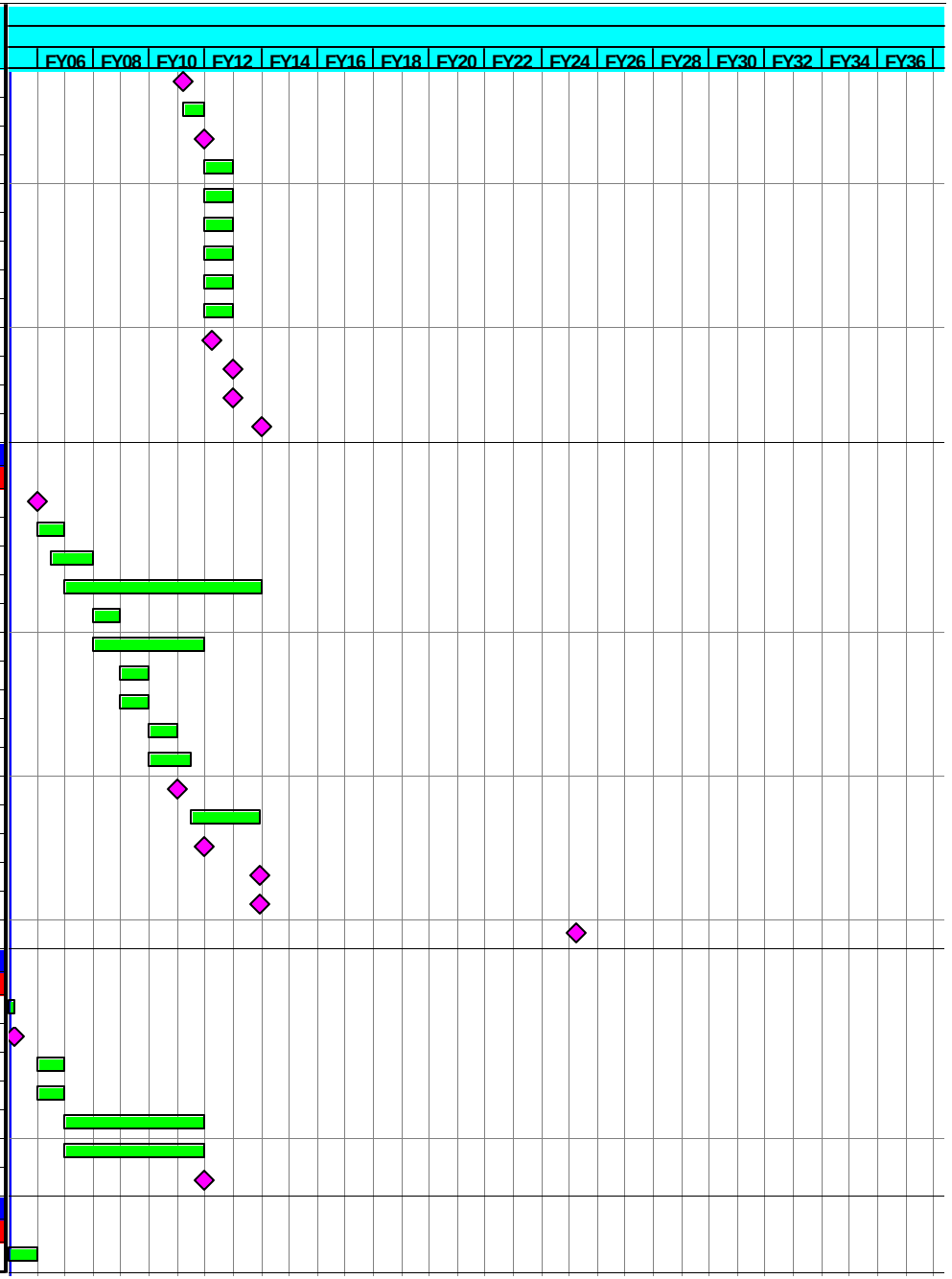
Activity ID	Activity Description	Early Start	Early Finish
1LS27153	Al/SNAP Fuel - Transfers Complete		24DEC09
1LS27162	TORY-IIA Fuel - Transfers	04JAN10	30SEP10
1LS27163	TORY-IIA Fuel - Transfers Complete		30SEP10
1LS27172	PWR Fuel - Transfers	01OCT10*	30SEP11
1LS27212	Misc. CAN-SF-94 - Transfers	01OCT10*	30SEP11
1LS27222	Misc. GCRE/TRIGA FLIP - Transfers	01OCT10*	30SEP11
1LS27232	Misc. Buffalo PULSTAR - Transfers	01OCT10*	30SEP11
1LS27242	Misc. SM1A - Transfers	01OCT10*	30SEP11
1LS27252	Misc. GETR Filters - Transfers	01OCT10*	30SEP11
1LS27103	EBR-II Fuel - Transfers Complete		24DEC10*
1LS27173	PWR Fuel - Transfers Complete		30SEP11
1LS27290	Misc. DOE Canned Fuels - Transfers Complete		30SEP11
1LS27990	Complete Removal of DOE-Owned SNF from CPP 666		30SEP12*
CPP-666 Transferred Navy Fuel			
CPP-666 Transferred Navy Fuel			
1LS28000	Decision issued on transf of Naval fuels to Navy		30SEP04*
1LCADJ07	FY-05 Contingency Adjustment (-75%)	01OCT04*	30SEP05
1LS28110	S3G - Preparations	01APR05*	29SEP06
1LCADJ08	FY06 to FY12 Contingency Adjustment (+75% FY05)	01OCT05*	30SEP12
1LS28210	D1G - Preparations	02OCT06*	28SEP07
1LS28120	S3G - Ship Modules	02OCT06*	30SEP10
1LS28220	D1G - Transfer Modules	01OCT07*	30SEP08
1LS28310	A1W - Preparations	01OCT07*	30SEP08
1LS28320	A1W - Transfer Modules	01OCT08*	30SEP09
1LS28410	Navy Misc Fuels - Preparations	01OCT08*	31MAR10
1LS28330	A1W - Transfers from CPP-666 Complete		30SEP09
1LS28420	Navy Misc Fuels - Transfer Assemblies/Cans	01APR10*	28SEP12
1LS28130	S3G transfers from CPP-666 complete		30SEP10
1LS28430	Navy Misc Fuels -Transfers from CPP-666 Complete		28SEP12
1LS28800	Remove Naval fuels from INTEC		28SEP12
1LS28900	All SNF Removed from Wet Storage		29DEC23*
IFSF Receipts			
IFSF Receipts			
1LS27501	PBF Fuel Receipts FY04 (8 shipments)	01OCT03	24DEC03
1LS27502	Place shipments 21 thru 28 PBF SNF in dry stor		24DEC03*
1LCADJ09	FY-05 Contingency Adjustment (-75%)	01OCT04*	30SEP05
1LS44110	ATR Fuel - Preparations	01OCT04*	30SEP05
1LCADJ10	FY06 to FY10 Contingency Adjustment (+75% FY05)	01OCT05*	30SEP10
1LS44120	ATR Fuel - 14 Shipments/Year from ATR	03OCT05	30SEP10
1LS44222	Cease Acceptance of ATR Fuel		30SEP10*
Foreign Reactor Receipts (FRR)			
Foreign Reactor Receipts (FRR)			
1LS23202	FRR Receipt Document Preps FY04 (1 shipment)	01OCT03	30SEP04



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PBS A- INTEC Completion
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Lifecycle Baseline

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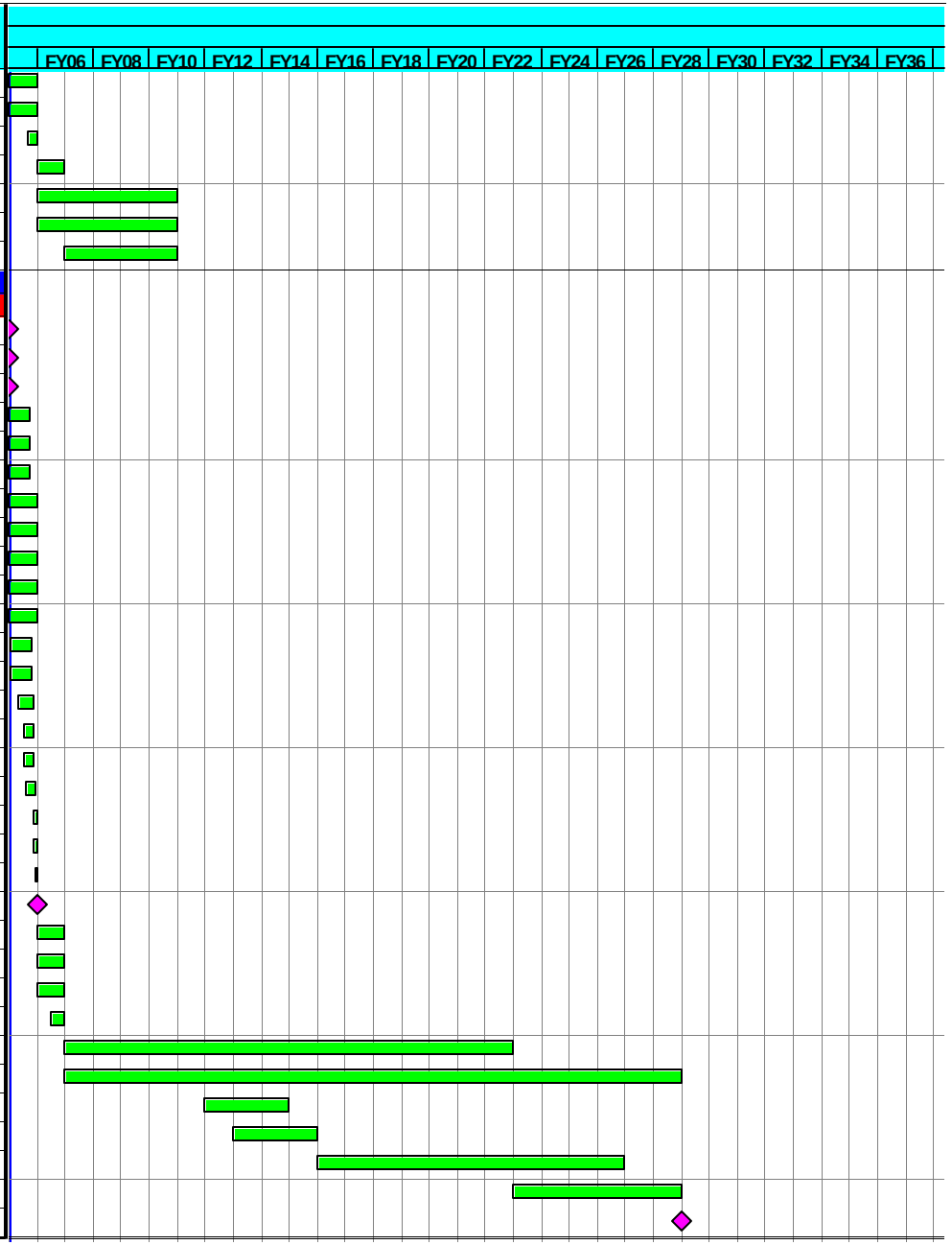
Activity ID	Activity Description	Early Start	Early Finish
1LS23203	INTEC Equip/Fac Preps FY04	01OCT03	30SEP04
1LS2340A	FRR Direction & Integration FY04	01OCT03	30SEP04
1LS23204	FRR Receipt (1) FY04	17JUN04*	30SEP04
1LCADJ11	FY-05 Contingency Adjustment (-75%)	01OCT04*	30SEP05
1LS2321A	FRR Preps/Receipts (2 receipts/yr)	01OCT04	30SEP09
1LS2340B	FRR Direction & Integration	01OCT04	30SEP09
1LCADJ12	FY06 to FY09 Contingency Adjustment (+75% FY05)	01OCT05*	30SEP09
Domestic Receipts & Shipments (DR&S)			
Domestic Receipts & Shipments (DR&S)			
1LS24300	DOMESTIC FUEL RECEIPT - CORNELL	01OCT03*	
1LS24400	DOMESTIC FUEL RECEIPT - TBD	01OCT03*	
1LS24500	DOMESTIC FUEL RECEIPT - SUNY	01OCT03*	
1LS24310	CORNELL-Documentation Preps	01OCT03	30JUN04
1LS24410	TBD-Documentation Preps	01OCT03	30JUN04
1LS24510	SUNY - Documentation Preps	01OCT03	30JUN04
1LCADJ13	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
1LS24201	DRS Direction & Integration FY04	01OCT03	30SEP04
1LS24360	CORNELL-PM & Technical Support	01OCT03	30SEP04
1LS24460	TBD-PM & Technical Support	01OCT03	30SEP04
1LS24560	SUNY - PM & Technical Support	01OCT03	15OCT04
1LS24320	CORNELL-Equip/Facility Preps	31OCT03	29JUL04
1LS24420	TBD-Equip/Facility Preps	31OCT03	29JUL04
1LS24520	SUNY - Equip/Facility Preps	04FEB04	26AUG04
1LS24340	CORNELL-Personnel & Readiness Preps	14APR04	26AUG04
1LS24440	TBD-Personnel & Readiness Preps	14APR04	26AUG04
1LS24540	SUNY - Personnel & Readiness Preps	12MAY04	10SEP04
1LS24350	CORNELL-Receive/Store/Cleanup	27AUG04	30SEP04
1LS24450	TBD-Receive/Store/Cleanup	27AUG04	30SEP04
1LS24550	SUNY - Receive/Store/Cleanup	13SEP04	15OCT04
1LS24351	Receive & Unload the Cornell Cask at IFSF		30SEP04*
1LCADJ14	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
1LS24202	DRS Direction & Integration FY05	01OCT04	30SEP05
1LS246A	3 Domestic Receipts	01OCT04*	30SEP05
1LS246B	Initiate FY06 Documentation Preps	01APR05*	30SEP05
1LS246C	3 Domestic Fuel Receipts per year	03OCT05*	30SEP21
1LS24203	DRS Direction & Integration FY06-FY27	03OCT05	30SEP27
1LS2491	ANL-W - Preparations (WFO funded)	01OCT10*	30SEP13
1LS2492	ANL-W - Receive 38 Shipments (WFO funded)	03OCT11	30SEP14
1LCADJ15	FY15 to FY25 Contingency Adjustment (+75% FY05)	01OCT14*	30SEP25
1LS246D	3 Domestic Fuel Receipts per year	01OCT21*	13OCT27
1LS24088	Complete Domestic SNF Receipts Program		13OCT27*



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Lifecycle Baseline

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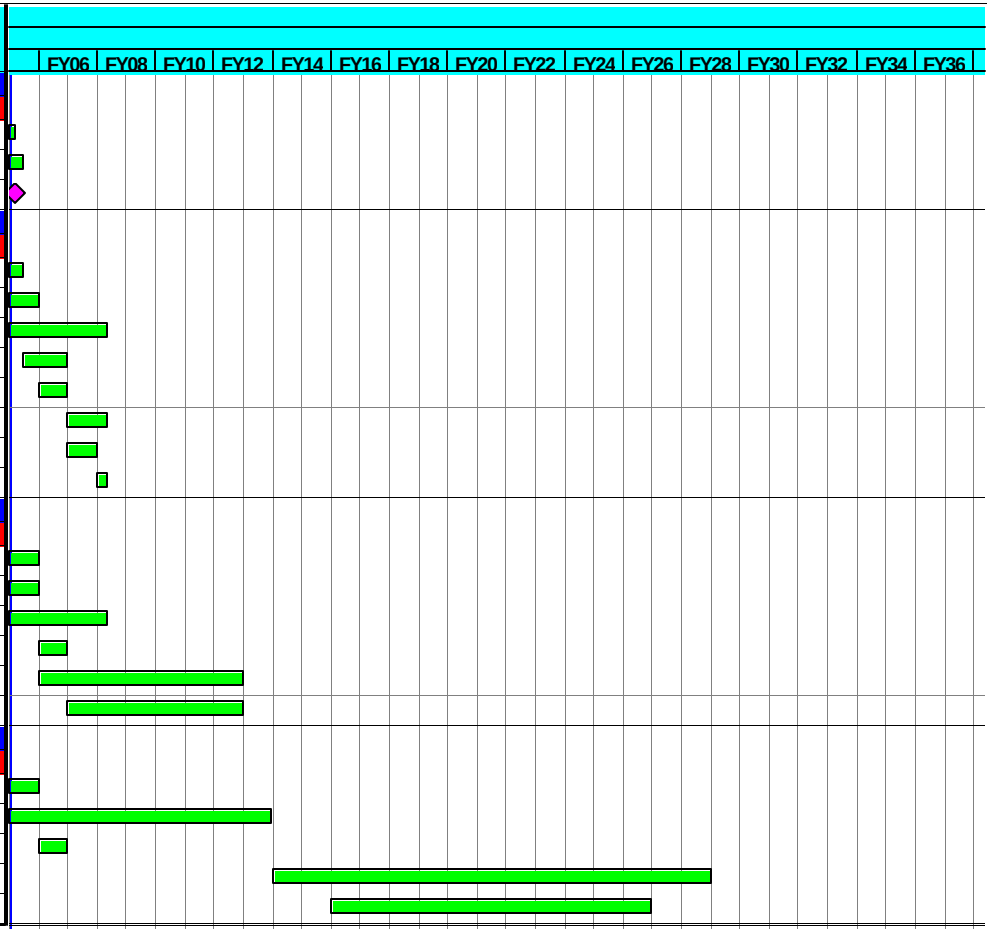
Activity ID	Activity Description	Early Start	Early Finish
PBF Transferred Fuel			
PBF Transferred Fuel			
1LS69000	PBF Fuel Transfers to INTEC FY04	01OCT03	23DEC03
1LS69001	PBF PM & Project Closeout	01OCT03	25MAR04
1LS69002	Cplt remaining 8 PBF transfers to dry stor		24DEC03*
CPP-016 VCO			
CPP-016 VCO			
1LVCO100	VCO NEW-CPP-016 IDEQ Closure Plan Review & Appro	01OCT03	31MAR04
1LCADJ16	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
1LVCO109	VCO NEW-CPP-016 Project Support	01OCT03	15FEB07
1LVCO101	VCO NEW-CPP-016 Complete Vessel Cleanout Closure	01APR04	30SEP05
1LCADJ17	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
1LCADJ18	FY06 to FY07 Contingency Adjustment (+75% FY05)	01OCT05*	15FEB07
1LVCO102	VCO NEW-CPP-016 Complete Vessel Removal Closure	03OCT05	29SEP06
1LVCO103	VCO NEW-CPP-016 Closure Certification	02OCT06	15FEB07
CPP-603 Basin D&D&D			
CPP-603 Basin D&D&D			
1LCADJ19	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
1LD3100	CPP-603 Basin Deactivation (FY04)	01OCT03	30SEP04
1LDX50	DD&D VES-SFE-106 Tank Closure	01OCT03	31JAN07
1LCADJ20	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
1LD3200	CPP-603 Basin Deactivation (FY05-FY11)	01OCT04	30SEP11
1LCADJ21	FY15 to FY25 Contingency Adjustment (+75% FY05)	01OCT05*	30SEP11
Project Management & Administration			
Project Management & Administration			
1LCADJ22	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
1LP100	Project Management & Administration (FY04-FY12)	01OCT03*	28SEP12
1LCADJ23	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
1LP200	Project Management & Administration (FY13-FY27)	01OCT12*	30SEP27
1LCADJ24	FY15 to FY25 Contingency Adjustment (+75% FY05)	01OCT14*	30SEP25



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PBS A- INTEC Completion
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Wet SNF to Dry & SNF Consolidation

Lifecycle Baseline

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INTEC Completion

Subproject Breakout by Control Account

WBS[5]		WBS[6]		Sep-04	Sep-05	Sep-06	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016
A.1.01.00.01 CPP-SP1 Wet SNF to Dry & SNF Consolidation																
	BURDENED BASE															
		A.1.01.00.01.01 CPP-666 On-Site Receipts	BCWS	208	190	10	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.01.02 CPP-666 Transferred DOE Fuel	BCWS	444	2,307	3,631	2,466	3,153	6,376	6,881	1,828	0	0	0	0	0
		A.1.01.00.01.03 CPP-666 Transferred Navy Fuel	BCWS	0	174	377	1,324	2,327	1,800	1,708	837	830	0	0	0	0
		A.1.01.00.01.04 IFSF Receipts	BCWS	96	875	728	728	734	731	731	0	0	0	0	0	0
		A.1.01.00.01.05 Foreign Reactor Receipts (FRR)	BCWS	1,217	1,929	2,151	2,151	2,168	2,160	0	0	0	0	0	0	0
		A.1.01.00.01.06 Domestic Receipts & Shipments (DR&S)	BCWS	2,718	2,970	3,078	3,078	3,102	3,090	3,090	3,102	3,078	3,090	3,090	3,138	3,150
		A.1.01.00.01.07 PBF Transferred Fuel	BCWS	365	0	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.01.08 CPP-016 VCO	BCWS	1,424	2,552	1,252	165	0	0	0	0	0	0	0	0	0
		A.1.01.00.01.09 CPP-603 Basin D&D&D	BCWS	2,785	1,179	1,202	981	884	880	880	884	0	0	0	0	0
		A.1.01.00.01.10 Project Management & Administration	BCWS	1,025	1,047	1,123	1,123	1,132	1,127	1,127	1,132	1,123	426	426	443	445
	Results... Totals:		**BCWS**	**10,281**	**13,224**	**13,553**	**12,016**	**13,500**	**16,164**	**14,418**	**7,783**	**5,030**	**3,516**	**3,516**	**3,581**	**3,595**
	ESCALATE															
		A.1.01.00.01.01 CPP-666 On-Site Receipts	BCWS	7	10	1	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.01.02 CPP-666 Transferred DOE Fuel	BCWS	12	112	258	236	374	922	1,145	349	0	0	0	0	0
		A.1.01.00.01.03 CPP-666 Transferred Navy Fuel	BCWS	0	11	28	128	278	257	289	160	180	0	0	0	0
		A.1.01.00.01.04 IFSF Receipts	BCWS	2	46	53	70	87	104	121	0	0	0	0	0	0
		A.1.01.00.01.05 Foreign Reactor Receipts (FRR)	BCWS	40	101	158	206	257	307	0	0	0	0	0	0	0
		A.1.01.00.01.06 Domestic Receipts & Shipments (DR&S)	BCWS	91	156	227	296	369	441	515	593	665	747	827	923	1,012
		A.1.01.00.01.07 PBF Transferred Fuel	BCWS	8	0	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.01.08 CPP-016 VCO	BCWS	45	124	87	14	0	0	0	0	0	0	0	0	0
		A.1.01.00.01.09 CPP-603 Basin D&D&D	BCWS	86	60	88	93	105	125	146	169	0	0	0	0	0
		A.1.01.00.01.10 Project Management & Administration	BCWS	32	55	83	108	135	161	188	217	243	103	114	130	143
	Results... Totals:		**BCWS**	**322**	**676**	**984**	**1,150**	**1,606**	**2,317**	**2,404**	**1,487**	**1,088**	**850**	**941**	**1,053**	**1,155**
	SUMMARY (Base + Escalation)															
		A.1.01.00.01.01 CPP-666 On-Site Receipts	BCWS	214	200	11	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.01.02 CPP-666 Transferred DOE Fuel	BCWS	456	2,419	3,890	2,702	3,527	7,298	8,026	2,177	0	0	0	0	0
		A.1.01.00.01.03 CPP-666 Transferred Navy Fuel	BCWS	0	185	405	1,452	2,605	2,058	1,997	997	1,010	0	0	0	0
		A.1.01.00.01.04 IFSF Receipts	BCWS	98	921	782	798	821	835	853	0	0	0	0	0	0
		A.1.01.00.01.05 Foreign Reactor Receipts (FRR)	BCWS	1,257	2,030	2,309	2,357	2,425	2,466	0	0	0	0	0	0	0
		A.1.01.00.01.06 Domestic Receipts & Shipments (DR&S)	BCWS	2,809	3,127	3,305	3,373	3,472	3,531	3,605	3,695	3,743	3,837	3,917	4,061	4,162
		A.1.01.00.01.07 PBF Transferred Fuel	BCWS	372	0	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.01.08 CPP-016 VCO	BCWS	1,469	2,676	1,340	179	0	0	0	0	0	0	0	0	0
		A.1.01.00.01.09 CPP-603 Basin D&D&D	BCWS	2,871	1,240	1,290	1,074	989	1,006	1,027	1,053	0	0	0	0	0
		A.1.01.00.01.10 Project Management & Administration	BCWS	1,057	1,102	1,206	1,231	1,267	1,288	1,315	1,348	1,365	529	540	573	587
	Results... Totals:		**BCWS**	**10,604**	**13,900**	**14,537**	**13,166**	**15,106**	**18,482**	**16,822**	**9,270**	**6,118**	**4,365**	**4,457**	**4,634**	**4,750**

Thousands

INTEC Completion

Subproject Breakout by Control Account

WBS[5]		WBS[6]		FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Cumulative
A.1.01.00.01 CPP-SP1 Wet SNF to Dry & SNF Consolidation																
	BURDENED BASE															
		A.1.01.00.01.01 CPP-666 On-Site Receipts	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	408
		A.1.01.00.01.02 CPP-666 Transferred DOE Fuel	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	27,088
		A.1.01.00.01.03 CPP-666 Transferred Navy Fuel	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	9,377
		A.1.01.00.01.04 IFSF Receipts	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	4,625
		A.1.01.00.01.05 Foreign Reactor Receipts (FRR)	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	11,776
		A.1.01.00.01.06 Domestic Receipts & Shipments (DR&S)	BCWS	3,125	3,125	3,138	3,150	3,150	3,135	3,110	3,122	3,122	3,075	3,075	92	74,191
		A.1.01.00.01.07 PBF Transferred Fuel	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	365
		A.1.01.00.01.08 CPP-016 VCO	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	5,393
		A.1.01.00.01.09 CPP-603 Basin D&D&D	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	9,675
		A.1.01.00.01.10 Project Management & Administration	BCWS	441	441	443	445	445	445	441	443	443	426	426	0	16,538
	Results... Totals:		**BCWS**	**3,566**	**3,566**	**3,581**	**3,595**	**3,595**	**3,580**	**3,551**	**3,565**	**3,565**	**3,501**	**3,501**	**92**	**159,434**
	ESCALATE															
		A.1.01.00.01.01 CPP-666 On-Site Receipts	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	18
		A.1.01.00.01.02 CPP-666 Transferred DOE Fuel	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	3,408
		A.1.01.00.01.03 CPP-666 Transferred Navy Fuel	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	1,331
		A.1.01.00.01.04 IFSF Receipts	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	483
		A.1.01.00.01.05 Foreign Reactor Receipts (FRR)	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	1,068
		A.1.01.00.01.06 Domestic Receipts & Shipments (DR&S)	BCWS	1,091	1,180	1,275	1,373	1,468	1,558	1,643	1,750	1,852	1,927	2,032	62	24,073
		A.1.01.00.01.07 PBF Transferred Fuel	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	8
		A.1.01.00.01.08 CPP-016 VCO	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	271
		A.1.01.00.01.09 CPP-603 Basin D&D&D	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	873
		A.1.01.00.01.10 Project Management & Administration	BCWS	154	166	180	194	207	221	233	248	262	267	281	0	4,123
	Results... Totals:		**BCWS**	**1,245**	**1,346**	**1,455**	**1,567**	**1,675**	**1,778**	**1,876**	**1,998**	**2,114**	**2,194**	**2,314**	**62**	**35,656**
	SUMMARY (Base + Escalation)															
		A.1.01.00.01.01 CPP-666 On-Site Receipts	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	426
		A.1.01.00.01.02 CPP-666 Transferred DOE Fuel	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	30,495
		A.1.01.00.01.03 CPP-666 Transferred Navy Fuel	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	10,709
		A.1.01.00.01.04 IFSF Receipts	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	5,107
		A.1.01.00.01.05 Foreign Reactor Receipts (FRR)	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	12,844
		A.1.01.00.01.06 Domestic Receipts & Shipments (DR&S)	BCWS	4,216	4,305	4,413	4,523	4,618	4,692	4,753	4,872	4,974	5,002	5,107	154	98,264
		A.1.01.00.01.07 PBF Transferred Fuel	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	372
		A.1.01.00.01.08 CPP-016 VCO	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	5,664
		A.1.01.00.01.09 CPP-603 Basin D&D&D	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	10,548
		A.1.01.00.01.10 Project Management & Administration	BCWS	595	608	623	638	652	665	674	691	705	693	707	0	20,661
	Results... Totals:		**BCWS**	**4,811**	**4,912**	**5,035**	**5,162**	**5,270**	**5,358**	**5,427**	**5,563**	**5,680**	**5,695**	**5,814**	**154**	**195,090**

Thousands

SUBPROJECT PLAN

WBS: A.1.01.00.02
Title: INTEC-SP2 Special Nuclear Material Consolidation

Subproject Mgr:	**Douglas Burns**	**Planning & Controls:**	**Joe Boyle**
DOE-ID:		**ES&H Field Manager:**	**Corrinne Jones**
INTEC Manager:	**Richard Loos**	**Other:**	

1. WORK DESCRIPTION:

Idaho Nuclear Technologies and Engineering Center (INTEC) Subproject 2 includes all work scope associated with dispositioning (i.e., repackaging if necessary and transporting to a receiving facility) Environmental Management (EM)-owned Special Nuclear Material (SNM) stored at the Idaho National Engineering and Environmental Laboratory (INEEL). Materials covered under this subproject plan include:

- SNM stored in the CPP-651 Unirradiated Fuel Storage Facility, including:
  - Denitrator product
  - Rocky Flats oxide and University of Washington reactor fuel
  - Vycor Glass
  - Argonne National Laboratory-East (ANL-E) scrap material
  - Pressurized Water Reactor (PWR) plates/assemblies and Fluorinel fuel materials
  - Custom product reference samples and Y-12 standards
  - Argonne National Laboratory-West (ANL-W) metal and oxide materials
  - Los Alamos National Laboratory (LANL) carbide mixed with graphite
- Unirradiated Light Water Breeder Reactor (ULWBR) fuel stored in CPP-749
- Rover/PARKA reactor fuel stored in the CPP-603 Irradiated Fuel Storage Facility
- U-233 waste stored at Radioactive Waste Management Complex (RWMC)
- EM-owned SNM stored in Test Reactor Area (TRA)-621 consisting of:
  - Advanced Test Reactor (ATR) samples and UTS Standard Plate
  - Unirradiated Loss-of-Fluid Test Facility (LOFT) materials
- Miscellaneous samples and materials stored in various INTEC laboratories
- Depleted and natural uranium materials in various INTEC laboratories

The subproject includes the following six control accounts:

A.1.01.00.02.01 INTEC-SP2 Project Management

This control account supports completion of all activities associated with managing and administering SNM dispositioning activities. The control account includes work scope that will be completed from FY 2004 through FY 2009.

A.1.01.00.02.02 U-233 and ULWBR Fuel Transfers

This control account supports dispositioning of the U-233 and ULWBR materials stored at RWMC and CPP-749. The control account includes work scope that will be completed from FY 2004 through FY 2008.

A.1.01.00.02.03 CPP-651 Highly Enriched Uranium Support

This control account supports activities associated with transferring denitrator product from CPP-651. All activities included in this control account are funded by National Nuclear Security Administration (NNSA). The control account includes work scope that will be completed during FY 2004.

A.1.01.00.02.04 Rover/PARKA Fuel Inventories and Offsite Shipments

This control account supports inventorying, repackaging, and shipment of the Rover/PARKA reactor fuel stored in the CPP-603 Irradiated Fuel Storage Facility. The control account includes work scope that will be completed from FY 2004 through FY 2009.

A.1.01.00.02.05 Miscellaneous SNM Shipments

This control account supports dispositioning of the miscellaneous SNM materials stored in CPP-651, TRA-621, and various INTEC laboratories. The control account includes work scope that will be completed from FY 2004 through FY 2009.

A.1.01.00.02.06 CPP-651 Facility Maintenance

This control account supports maintenance of CPP-651 and performance of CPP-651 SNM inventories. The control account includes work scope that will be completed from FY 2004 through FY 2010.

2. MAJOR PRODUCTS AND DELIVERABLES:

The Special Nuclear Materials Consolidation Subproject includes scope that will be performed from FY 2004 through FY 2010. Major milestones and deliverables include:

Milestones:

- Complete shipment of U-233 and ULWBR to other site(s) by 9/30/08
- Complete shipment of denitrator product to other sites by 12/31/04
- Complete shipment of Rocky Flats material to other sites by 9/30/04
- Complete shipment of LANL material to other sites by 9/30/04
- Complete shipment of University of Washington material to other sites by 9/30/06
- Complete repackaging and transfer of Rover/PARKA SNM to other sites by 9/30/09
- Complete transfer of remaining EM SNM to other sites by 9/30/09

A.1.01.00.02.01 INTEC-SP2 Project Management

- Baseline planning
- Development of project tracking data
- Weekly and monthly reports

A.1.01.00.02.02 U-233 and ULWBR Fuel Transfers

- U-233 Environmental Assessment
- U-233 and ULWBR disposition plans
- U-233 and ULWBR safety documentation
- U-233 and ULWBR shipper/receiver agreements
- U-233 and ULWBR repackaging
- U-233 and ULWBR shipments to other sites

A.1.01.00.02.03 CPP-651 Highly Enriched Uranium Support

- Denitrator product shipper/receiver agreement development
- Denitrator product safety documentation
- Modifications to CPP-602 basement to support denitrator product repackaging
- Denitrator product repackaging
- Denitrator product shipments to other sites

A.1.01.00.02.04 Rover/PARKA Fuel Inventories and Offsite Shipments

- Rover/PARKA inventories
- Rover/PARKA safety documentation
- Rover/PARKA repackaging
- Rover/PARKA shipments to other sites

A.1.01.00.02.05 Miscellaneous SNM Shipments

- Miscellaneous SNM shipper/receiver agreements
- Miscellaneous SNM disposition plans
- Miscellaneous SNM safety documentation
- Miscellaneous SNM repackaging
- Miscellaneous SNM shipments

3. ESTIMATE DEVELOPMENT BASIS:

The cost estimates were developed using the most appropriate estimating methods available, with first consideration given to a bottoms-up methodology, using known process times and/or historical data to arrive at a unit cost. Other cost estimate development methodologies were used, including:

- Recorded hours expended for similar work activities to accomplish similar scope performed in FY 2002/2003. In most cases, adjustments were made–up or down, as necessary–to reflect changes in operating conditions, scope of work, lessons learned, or other factors currently existing or projected going forward
- Professional experience and judgment of subject matter experts, (e.g., process engineers, technicians, managers, and outside consultants), where applicable, were used to determine appropriate resources for performing new work scope activities for which no historical data was available
- Engineering estimates were developed for facility and system modifications utilizing standard engineering and construction methods of estimating costs from drawings and specifications.

4. ASSUMPTIONS:

General:

- A single scope management self-assessment will be performed for shipment of each type of SNM or container.
- Acceptable receiving facilities will be identified for all SNM, and shipper/receiver agreements will be signed with these facilities, in time to meet disposition schedules and milestones.
- Commercial carriers will ship all SNM except the denitrator product.
- Deactivation, decontamination, and decommissioning of SNM storage facilities will be planned under INTEC Subproject 6.
- INTEC operations staffing will be maintained at levels that will support SNM transfers and maintenance of CPP-651.
- NNSA will fund all activities associated with repackaging and shipping the denitrator product, the custom reference samples, and the Y-12 standards
- EM will fund all activities associated with repackaging and shipping the PWR plates/assemblies and Fluorinel reactor fuel, the LANL carbide mixed with graphite, the ULWBR fuel stored in CPP-749, Vycor Glass, ANL-E metals, ANL-W metal and oxide materials, ATR samples and UTS Standard Plate, unirradiated LOFT materials, the miscellaneous samples stored in various INTEC laboratories, the Rocky Flats oxide, and the University of Washington reactor fuel.

- No additional EM owned SNM will be received at the INEEL in the future.
- Offsite receiving sites will have facilities available for receipt and storage in time to support INEEL shipping schedules and milestones.
- Safeguards and Security budgets will fund security and safeguards labor for SNM inventories and other entries associated with SNM transfers.
- Semi-annual inventories of SNM will be performed in October and April of each year until the material is transferred to another site.
- Shipping containers and accessories that are appropriate for each type of SNM to be transferred will be certifiable and readily available to meet transfer schedules and milestones.
- SNM storage facilities will be maintained in accordance with their approved authorization basis as applicable.
- The INEEL will be responsible for packaging, loading, and transportation of SNM shipments to the offsite receiving facility. All offsite internal movements, placement into offsite storage, and offsite surveillance and monitoring will be performed and funded by the receiving site, or a related organization.
- Transportation requirements in place at the beginning of FY 2003 will be applicable for the duration of the SNM consolidation subproject. No additional transportation requirements will be established.
- Safe Secure Transport trailers for use in moving SNM materials will be provided at no cost.
- The 1996 *Record of Decision for the Disposition of Surplus Highly Enriched Uranium Final Environmental Impact Statement*, signed July 29, 1996 and made available to the public in 61 FR 40619, August 5, 1996) is sufficient to cover the anticipated activities.
- 6M drums will not be acceptable for use in Safe Secure Transport shipments after FY 2003.
- Classification levels of INEEL SNM will not be changed from the levels in place at the end of FY 2003.
- SNM materials will only be repackaged, if necessary, and transferred to other locations. No treatment of SNM materials will be required.

CPP-651:

- CPP-651 will not be transferred to another DOE program. EM will maintain ownership of the building until it is dismantled.
- Inventories of SNM contained within CPP-651 will be funded under control account A.1.01.00.02.06 (CPP-651 Facility Maintenance and Routine Operations).
- CPP-651 will be emptied by FY 2010 and turned over to INTEC Subproject 6 for dismantlement by FY 2011. No use for the building that will delay its deactivation schedule will be identified.
- CPP-651 will be maintained in its FY 2003 condition. No new equipment or systems will be added to the building.
- Corrective actions for CPP-651 unreviewed safety questions will not require modifications to CPP-651 structure or systems.
- INTEC-SP2 will be responsible for all scope associated with deactivating CPP-651. Deactivation will involve disconnecting and capping all utility lines, de-energizing all electricity and security systems, removing all non-permanent equipment, and eliminating all non-fixed contamination.

U-233 and ULWBR:

- The U-233 bearing material will have to be transferred from RWMC to INTEC for interim storage.
- The U-233 bearing material will be stored in cargo containers after it is moved to INTEC. Concrete pads will have to be built to hold the cargo containers.

- British Nuclear Fuels, ltd will transfer a total of 172 55-gallon drums of U-233 bearing material to the SNM Consolidation Subproject. All of this material will have to be sent to an offsite receiving facility.
- A programmatic Environmental Impact Statement will be developed by DOE-HQ that addresses U-233 disposition.
- The U-233 Environmental Assessment will result in a finding of no significant impact.
- EM will fund all activities associated with transferring the U-233 bearing material from RWMC to INTEC for interim storage and from the INEEL to an appropriate receiving facility.
- All U-233 material, including the RWMC U-233 and the ULWBR, will be shipped to an offsite receiving facility without substantial repackaging or treatment.
- An Environmental Assessment written under the DOE Programmatic U-233 Environmental Impact Statement will be sufficient to satisfy all National Environmental Policy Act requirements associated with shipping INEEL U-233 materials.
- British Nuclear Fuels, ltd, or another external organization, will perform all required monitoring and surveillance activities on the U-233 bearing material stored at the RWMC until the material is ready for transfer to INTEC.

Denitrator Product:

- NNSA will provide adequate and timely funding for repackaging and shipping denitrator product.
- All management self-assessments and operational readiness reviews to support denitrator product transfers will be complete during FY 2003.
- Safe Secure Transport trailer support will be available when required to support transport of the denitrator product.
- The A and B denitrator product will be transferred to Nuclear Fuel Services (NFS) and the C denitrator product will be transferred to SRS.
- All denitrator product transfers to NFS will be made by Safe Secure Transport and all denitrator product transfers to SRS will be made by commercial carrier.

Miscellaneous SNM:

- A commercial fabricator will be available to accept the PWR plates/assemblies and fluorinel fuel material.
- A shipping container for the PWR subassembly will be identified in time to meet shipping schedules.
- Only management self-assessments or operational readiness reviews will be required to support miscellaneous SNM transfers.
- The ANL-E material, the Vycor Glass material, the LOFT material, and the various INTEC lab samples will be disposed of as waste.

Rover/PARKA:

- EM will fund all activities associated with performing inventories, repackaging, and shipping the Rover/PARKA fuel.
- Oak Ridge Y-12 will not institute a charge back program for the Rover/PARKA fuel shipments.
- Rover/PARKA fuel characterization requirements will continue to allow 6 kg of U-235 to be transferred per shipment.
- On site characterization of the Rover/PARKA fuel will not be required.

Government Furnished Services and Items

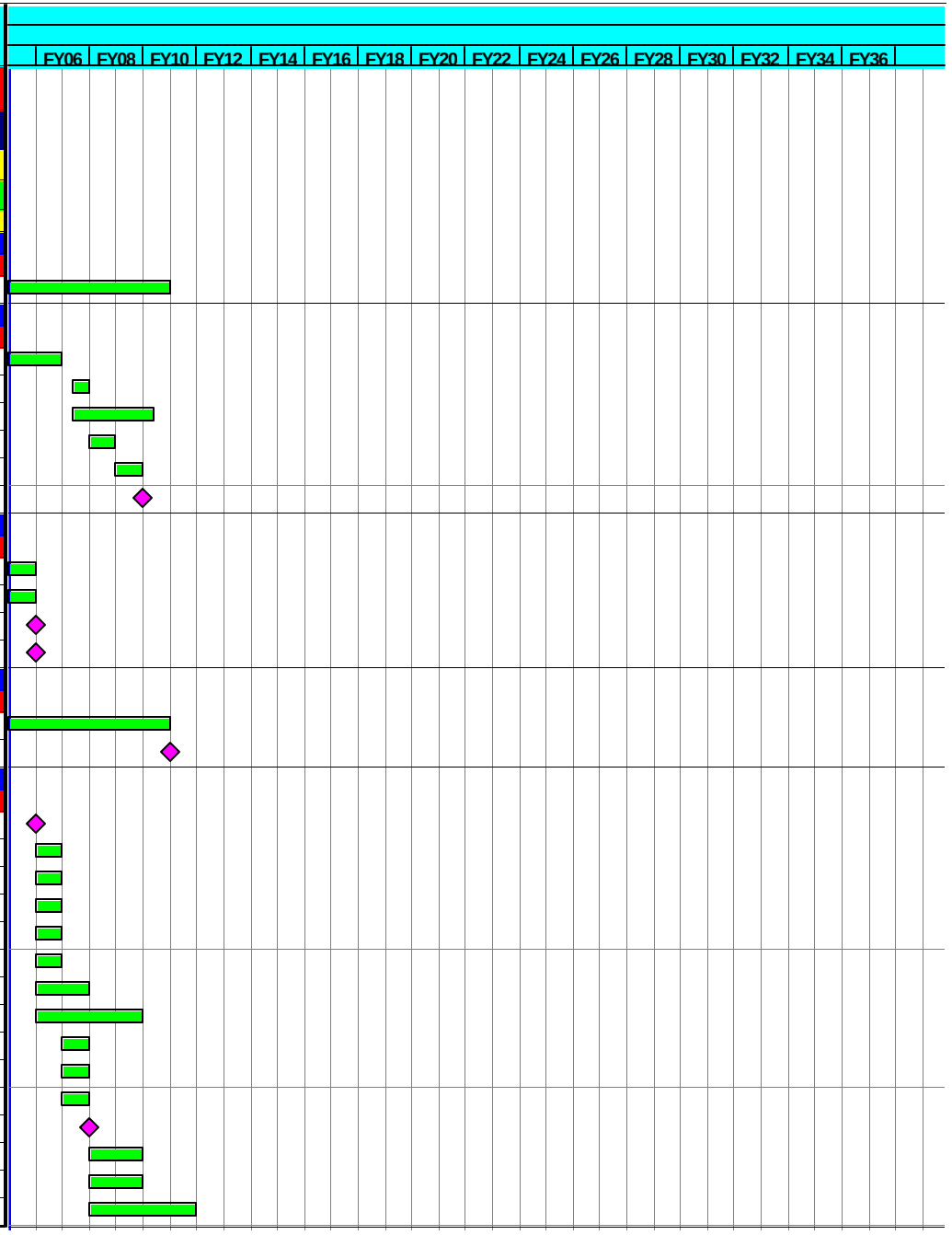
- A disposition path for U-233 bearing material will be established prior to the milestone date for removal of LWBR and U-233 from the INEEL.

- A programmatic Environmental Impact Statement covering U-233 shipments will be developed by DOE-HQ prior to the milestone date for removal of LWBR and U-233 from the INEEL.
- Safe Secure Transport trailer support will be available when required to support transfer of the denitrator product.
- NNSA funding will be provided to support all activities associated with repackaging and transferring the denitrator product, the Rocky Flats oxide, the custom reference samples, and the Y-12 standards.
- Acceptable receiving facilities will be identified for all SNM, and shipper/receiver agreements will be signed with these facilities, in time to meet disposition schedules and milestones.
- Offsite receiving sites will have facilities available for receipt and storage in time to support INEEL shipping schedules and milestones.
- Certification processes will be provided for each type of shipping container that will be used to transfer INEEL in SNM. These processes will be provided in time to meet all applicable shipping schedules.
- All offsite internal movements of transferred SNM, placement of SNM into offsite storage, and offsite surveillance and monitoring of transferred SNM will be performed and funded by the receiving site, or a related organization.
- British Nuclear Fuels, ltd, or another external organization, will perform all required monitoring and surveillance activities on the U-233 bearing material stored at the RWMC until the material is ready for transfer to INTEC.

5. SCIENCE AND TECHNOLOGY NEEDS:

Science and Technology Need Number	Science and Technology Need Description
None Identified	

Activity ID	Activity Description	Early Start	Early Finish
INEEL			
EM Project			
INTEC Completion			
INTEC Completion			
CPP-SP2 SNM Consolidation			
CPP-SP2 Project Management			
CPP-SP2 Project Management			
2LS41013	SNM Project Management & Support	01OCT03	30SEP09
U-233 & ULWBR Fuel Transfers			
U-233 & ULWBR Fuel Transfers			
2LS41011	Development of U-233 Disposition Path	01OCT03	30SEP05
2LS41015	Dvlp NEPA Documentation for U-233 & ULWBR	01MAR06*	30SEP06
2LS41017	Proj supt & preps for transfer of U-233 & ULWBR	01MAR06	26FEB09
2LS41000	SAR Update for U-233 & ULWBR Fuel Transfers	02OCT06	28SEP07
2LS41014	Repack & ship U-233 & ULWBR	01OCT07	30SEP08
2LS27507	Cplt shipment of U-233 & ULWBR to other site		30SEP08*
CPP-651 Highly Enriched Uranium Support			
CPP-651 Highly Enriched Uranium Support			
2LS43037	Repkg/ship Denitrator Prod A & B to NFS (Non-EM)	01OCT03	30SEP04
2LS43038	Repkg/ship Denitrator Product C to SRS (Non-EM)	01OCT03	30SEP04
2LS43050	Denitrator matl repackaged & ready to load		30SEP04
2LS43052	All Denitrator material shipped offsite		30SEP04
Rover Parka Fuel Inventories and Offsite Shipmen			
Rover Parka Fuel Inventories and Offsite Shipmen			
2LS43032	Rover/PARKA Fuel Inventories & Off-site shipment	01OCT03	30SEP09
2LS27502	Cplt repkg of Rover/PARKA SNM & transf to OR		30SEP09*
Miscellaneous SNM Shipments from CPP-651			
Miscellaneous SNM Shipments from CPP-651			
2LS43035	Cplt NEPA analy to allow trans/disposit'n of SNM		30SEP04*
2LCADJ01	FY-05 Contingency Adjustment (-75%)	01OCT04*	30SEP05
2LS43040	Repkg/ship ANL-W mtl/oxide SNM to OR	01OCT04	30SEP05
2LS43041	Repkg/ship Oxide SNM to OR	01OCT04*	30SEP05
2LS43046	Safety Doc Mods for ANL-W mtl/oxide SNM to OR	01OCT04*	30SEP05
2LS43047	Safety Document Mods for SNM to ANL-W	01OCT04*	30SEP05
2LS43039	Repkg/ship LANL Uran Oxide SNM to OR	01OCT04*	29SEP06
2LS43043	Repkg/ship Vycor / ANL-E SNM to ANL-W	01OCT04*	30SEP08
2LS43044	Repkg/ship Rocky Flats SNM to other sites	01OCT05*	30SEP06
2LS43049	Repackage & ship U. of Wash SNM to other sites	01OCT05*	30SEP06
2LS43048	Safety Doc Mods for Reactor fuel to Com'l facil	03OCT05*	29SEP06
2LS43036	Ship containers/transports avail for accel shipm		30SEP06*
2LS43042	Repkg/ship Reactor Fuel to Commercial	02OCT06*	26SEP08
2LCADJ02	FY07 to FY08 Contingency Adjustment (+75% FY05)	02OCT06*	30SEP08
2LS43045	Repack/ship all misc SNM Shipments	02OCT06*	29SEP10



Start Date 01OCT03
Finish Date 28SEP35
Data Date 01OCT03
Run Date 11APR03 12:37

Early Bar
Progress Bar
Critical Activity

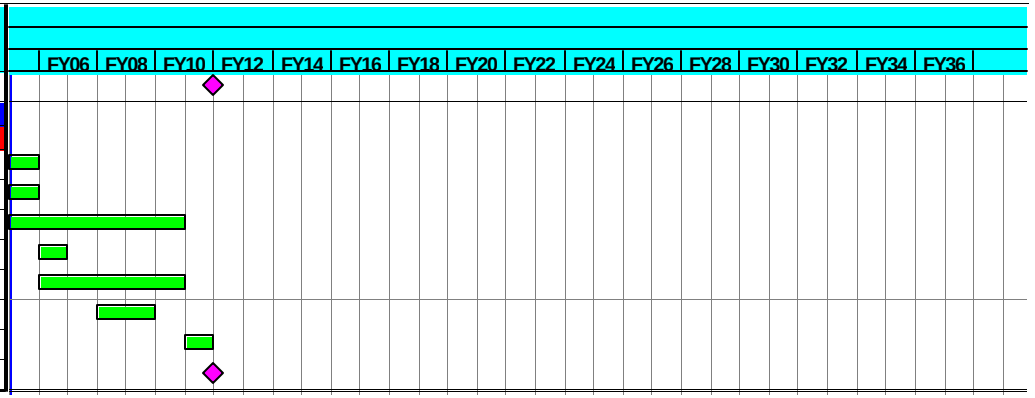
IN04 Sheet 1 of 2

PBS A- INTEC Completion
SP-2
SNM Consolidation

Lifecycle Baseline

INEEL
Home of Science and Engineering Solutions
Idaho National Engineering and Environmental Laboratory

Activity ID	Activity Description	Early Start	Early Finish
2LS43033	Cplt shipmnt of rem EM SNM to another site		29SEP10*
CPP-651 Maintained Facilities			
CPP-651 Maintained Facilities			
2LCADJ03	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
2LS026	CPP-651 Maintained Facilities FY04	01OCT03	30SEP04
2LS093	CPP-651 Unirrad. Fuel Storage Facility	01OCT03	30SEP09
2LCADJ04	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
2LS028	CPP-651 Maintained Facility	01OCT04*	30SEP09
2LCADJ05	FY07 to FY08 Contingency Adjustment (+75% FY05)	02OCT06*	30SEP08
2LB093A	CPP-651 Unirrad. Fuel Storage Fac Inactivation	01OCT09	30SEP10
2LS030	Turnover CPP-651 Facility & SNM to Program		30SEP10



Start Date 01OCT03
Finish Date 28SEP35
Data Date 01OCT03
Run Date 11APR03 12:37

Early Bar
Progress Bar
Critical Activity

IN04 Sheet 2 of 2

PBS A- INTEC Completion
SP-2
SNM Consolidation

Lifecycle Baseline

INEEL
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Idaho National Engineering and Environmental Laboratory

INTEC Completion

Subproject Breakout by Control Account

WBS[5]		WBS[6]		Sep-04	Sep-05	Sep-06	FY 2007	FY 2008	FY 2009	FY 2010	Cumulative
A.1.01.00.02 CPP-SP2 SNM Consolidation											
	BURDENED BASE										
		A.1.01.00.02.01 CPP-SP2 Project Management	BCWS	137	136	136	136	137	136	0	818
		A.1.01.00.02.02 U-233 & ULWBR Fuel Transfers	BCWS	152	152	155	159	5,411	32	0	6,060
		A.1.01.00.02.04 Rover Parka Fuel Inventories and Offsite Shipment	BCWS	178	178	177	177	178	178	0	1,066
		A.1.01.00.02.05 Miscellaneous SNM Shipments from CPP-651	BCWS	0	584	11	1,923	1,934	1,400	1,395	7,248
		A.1.01.00.02.06 CPP-651 Maintained Facilities	BCWS	882	978	1,055	1,098	1,107	1,059	115	6,294
	Results... Totals:		**BCWS**	**1,350**	**2,028**	**1,534**	**3,492**	**8,767**	**2,806**	**1,510**	**21,486**
	ESCALATE										
		A.1.01.00.02.01 CPP-SP2 Project Management	BCWS	4	7	10	13	17	20	0	71
		A.1.01.00.02.02 U-233 & ULWBR Fuel Transfers	BCWS	5	8	13	16	653	4	0	698
		A.1.01.00.02.04 Rover Parka Fuel Inventories and Offsite Shipment	BCWS	6	10	13	17	22	26	0	93
		A.1.01.00.02.05 Miscellaneous SNM Shipments from CPP-651	BCWS	0	25	1	184	229	199	231	869
		A.1.01.00.02.06 CPP-651 Maintained Facilities	BCWS	28	51	78	105	131	151	19	564
	Results... Totals:		**BCWS**	**43**	**101**	**115**	**335**	**1,052**	**400**	**251**	**2,296**
	SUMMARY (Base + Escalation)										
		A.1.01.00.02.01 CPP-SP2 Project Management	BCWS	141	144	146	149	153	156	0	890
		A.1.01.00.02.02 U-233 & ULWBR Fuel Transfers	BCWS	157	160	167	174	6,064	36	0	6,758
		A.1.01.00.02.04 Rover Parka Fuel Inventories and Offsite Shipment	BCWS	184	187	190	194	200	203	0	1,159
		A.1.01.00.02.05 Miscellaneous SNM Shipments from CPP-651	BCWS	0	609	12	2,107	2,163	1,599	1,626	8,118
		A.1.01.00.02.06 CPP-651 Maintained Facilities	BCWS	910	1,029	1,133	1,203	1,238	1,211	134	6,858
	Results... Totals:		**BCWS**	**1,393**	**2,129**	**1,649**	**3,827**	**9,819**	**3,205**	**1,761**	**23,783**

Thousands of $

SUBPROJECT PLAN

WBS: A.1.01.00.03
Title: INTEC-SP3 SNF and Calcine Disposition

Subproject Mgr:	**Joseph I. Pruitt**	**Planning & Controls:**	**Joe Boyle**
DOE-ID:		**ES&H Field Manager:**	**Corrinne Jones**
INTEC Manager:	**Richard Loos**	**Other:**	

1. WORK DESCRIPTION:

Subproject three (SP3) is comprised of three main divisions: (1) Calcine Treatment and Disposition Project, (2) National Spent Nuclear Fuel Program (NSNFP), and (3) the Idaho National Engineering and Environmental Laboratory (INEEL) Spent Nuclear Fuel Program (SNF). A separate project management function provides for management, planning and reporting in all three divisions. A description of each division is provided in the following paragraphs.

Calcine Treatment and Disposition Project

The objective of the INEEL Calcine Disposition Project is retrieval, packaging and disposition of high-level waste (HLW) calcine. Calcine Disposition division elements include:

- Calcine characterization in support of repository waste acceptance, Resource Conservation and Recovery Act (RCRA) permitting for storage, regulatory initiatives for removal of calcine from RCRA regulation, and general characterization for design input
- Development of a regulatory pathway for calcine transport, receipt, and disposal
- RCRA permitting of the Calcine Solid Storage Facilities (CSSF) for storage of calcine
- Development of an alternate calcine treatment or stabilization process to meet regulatory requirements
- Calcine retrieval from the bin sets
- Direct transfer of calcine into HLW canisters, or transfer of calcine into HLW canisters following minimal processing and stabilization
- Transfer of calcine to the Office of Repository Development for transport to the repository
- Transfer of storage facilities, retrieval and packaging systems, and treatment systems (if needed) to Subproject 6 for RCRA closure and final disposition.

Calcine disposition is expected to occur in three distinct phases:

2003 –2012 Proof of Principle - characterization, waste acceptance, permitting of existing facilities for storage, regulatory initiatives, and initiation of process design

2012 - 2018 Complete final design and construction

2018 –2030 Alternately treat, package, and ship calcine to a repository

Calcine disposition is organized in nine work packages. The general scope for each is described below:

Regulatory A.1.01.00.03.10

Provides the regulatory support of the Calcine Treatment and Disposition Project. Specifically this control account manages: (1) activities related to RCRA permitting of the Calcine Solid Storage Facilities for calcine storage; (2) regulatory initiatives to remove directly disposed or alternatively treated calcine from RCRA regulation, allowing disposal of INEEL calcine at the repository, and; (3) RCRA permitting activities associated with the calcine retrieval, treatment (if required), and packaging at the Idaho Nuclear Technology and Engineering Center (INTEC). The control account incorporates other regulatory support activities such as interface with stakeholders (i.e. - Idaho Department of Environmental Quality and Environmental Protection Agency), modeling activities, Data Quality Objective processes for multiple project activities, and development of RCRA petition(s). This account also contains the scope for printing and distributing a record of decision for calcine treatment. Regulatory activities have commenced and will conclude during 2014 (FY 2014) upon approval of the RCRA permit(s) for the calcine retrieval, treatment (if required), and packaging facility.

Pre-Conceptual Design Studies A.1.01.00.03.11

Provides pre-conceptual research and testing to support the development of an alternative calcine treatment or stabilization process at the INTEC. One of the primary project objectives is to directly dispose of calcine without further treatment. However, transportation and other regulatory issues may ultimately require the project to utilize processes to minimally treat or stabilize the calcine prior to shipment and disposal. The scope of this account will be to investigate and select the most suitable treatment or stabilization technologies, if required, to process INEEL calcine waste. Additionally, other pre-conceptual scope contained in this account includes the development of remotely applied calcine waste characterization and/or monitoring equipment. Characterization data will likely be required to support transport and waste acceptance requirements.

Retrieval A.1.01.00.03.12

Provides pre-conceptual research and testing to support the design of a calcine retrieval system at the INTEC. The preliminary work will research methods and technologies for accessing the INTEC CSSF, retrieving the calcine and transporting it to a processing/packaging facility before shipping it to an off-site repository for disposal. Incorporates all pre-conceptual research, testing, and design activities addressing key aspects of calcine retrieval including access, retrieval, and transport. Research and development activities will include bench testing, cold mock-up testing, and a hot demonstration of retrieval and characterization. Hot demonstration and characterization activities have commenced and will conclude by September 2007. Clean-up of the demonstration will conclude during May 2008 (FY 2008).

Yucca Mountain Waste Acceptance A.1.01.00.03.13

Provides necessary activities to obtain Yucca Mountain Project acceptance of INEEL calcine for disposal including the incorporation of the calcine waste in the repository's license agreement. Additionally, contains all scope related to the design, testing, certification, and fabrication of canisters to support shipment of INEEL calcine from the INTEC to Yucca Mountain. Incorporates all activities related to canister development including, but not limited to, modeling, design, off-site testing, thermal analysis, certification, and fabrication. In parallel, total system performance assessment modeling will be conducted using calcine inventory data (treated and untreated) to gain acceptance of INEEL calcine waste for disposal at Yucca Mountain. Waste acceptance activities have commenced and will conclude during June 2012 (FY 2012).

Calcine Project Management A.1.01.00.03.14

Provides the organizational framework and managerial oversight of the Calcine Treatment and Disposition Project charged with the responsibility for the treatment, if necessary, and disposal of INEEL calcine. Specifically, the Calcine Treatment and Disposition Project Manager, administrative staff, and their related activities are funded by this control account. The project management activities include the coordination and management of all project control accounts and the provision of administrative services that cross cut all project activities. This account incorporates all activities that provide administrative support to the overall project scope, schedule, and objectives/goals. The scope of the work includes project management, research and development coordination, strategic planning, project controls, project documentation (plans and records management) and stakeholder involvement. Project management activities have commenced and will conclude during September 2030 (FY 2030).

Calcine Engineering Support A.1.01.00.03.15

Many of the technical and engineering resources (operations interface, project engineering, risk management, technical editing, quality engineering) contained in this account provide support to the other project control accounts over the life of the project, while other resources (Yucca Mountain data interface and Yucca Mountain interface) are task specific. Incorporates all activities that provide cross cutting technical and engineering support in meeting the overall project scope, schedule, and objectives/goals. The scope of the work includes all interfaces with facility and operations management, project engineering support, calcine inventory data management, risk management, and interfaces with regulators and permitting, quality engineering (especially the activities affected by DOE/RW-0333, *Quality Assurance Requirements and Description*), and data interfaces with the Yucca Mountain Project. Calcine Engineering Support activities have commenced and will conclude during September 2030 (FY 2030).

Design A.1.01.00.03.16

Provides the funding for designing the facilities related to the treatment, if required, and disposal of INEEL calcine. Specifically, one or several facilities will be designed to house retrieval, treatment, characterization, and packaging activities at the INTEC. Designs the necessary equipment and structures to retrieve, treat, characterize, and package the calcine. The scope of the work includes Conceptual Design, Preliminary (Title I) Design, and Final (Title II) Design. The design activities are scheduled to commence during October 2007 (FY 2008) and conclude during December 2013 (FY 2014).

Construction A.1.01.00.03.17

Provides the funding for the construction of facilities related to the treatment, if required, and disposal of INEEL calcine. Specifically, one or several facilities will be constructed to house retrieval, treatment, characterization, and packaging activities at the INTEC. Constructs the necessary equipment and structures to retrieve, treat, characterize, and package the calcine. The scope of the work includes construction, facility acceptance, and startup. The construction activities are scheduled to commence during October 2014 (FY 2015) and conclude during March 2020 (FY 2020).

Operations-Retrieval-Packaging-Shipping-Closure A.1.01.00.03.18

Provides the funding for the operation of facilities related to the treatment, if required, and disposal of INEEL calcine. Specifically, one or several facilities will be operated to retrieve, treat, characterize, and package INEEL calcine at the INTEC. In addition, this control account provides for the fabrication of canisters to support packaging and shipping operations. Operates the necessary equipment and structures to retrieve, treat (if necessary), characterize, and package the calcine. The scope of the work includes facility operation and canister fabrication. Facility acceptance and turnover will be completed by March 2022, retrieval and packaging operation activities commence during April 2022 (FY 2022) and conclude during September 2030 (FY 2030). Canister fabrication commences during October 2020 (FY 2021) and concludes during September 2022 (FY 2022).

National Spent Nuclear Fuel Program

The objective of the NSNFP is to define and ensure resolution of all associated issues for the characterization, safe interim storage, and proper final disposition of all U.S. DOE SNF. The technical strategy of the NSNFP to develop innovative approaches and products designed to move DOE SNF closer to its final disposition. The following are the control account summaries for the NSNFP.

INTEC-SP3 NSNFP Nuclear Materials Engineering and Disposition Project Management A.1.01.00.03.01

Provide overall project management functions for the NSNFP that include strategic direction, financial and technical progress controls, planning, and technical management and integration. Administer document control and records management programs. Coordinate training of NSNFP personnel ensuring that this training is accomplished in accordance with the NSNFP QA Program requirements. Coordinate the oversight external to the technical program. Maintain, generate, and assist with the generation of NSNFP procedures applicable to the technical program and records management. Maintain a long-term Master Logic Schedule that addresses the interface activities of DOE SNF sites, the NSNFP, and RW and its contractor. Maintain an active Stakeholder Interaction program.

INTEC-SP3 Repository Analysis A.1.01.00.03.0B

This activity ensures that the necessary repository analyses specific to the inclusion of DOE SNF in the repository are performed and available to support the repository programs site evaluation, design, and licensing activities. The types of analyses to be performed include such topics as pre-closure and post-closure criticality safety; waste package thermal, structural, and radiation shielding analyses; compatibility with the repository environment; trade-off studies of alternative waste package or repository designs; pre-closure safety analysis; and post-closure total system performance assessment for DOE SNF. Work planning and documentation under this activity require close interface with DOE's Office of Civilian Radioactive Waste Management (RW) Yucca Mountain Repository Program, which defines the requirements to be satisfied and serves as the primary outside customer for the work performed under this activity. Additional tasks include modeling, analysis, and experimentation to evaluate any unique characteristics of DOE SNF packages. Under this activity a detailed SNF database is maintained and updated to support DOE's plans for ultimate disposition of DOE SNF. This activity also provides

coordination of DOE sites input into SNF certification activities to ensure that DOE SNF is accepted at the repository. The scope also includes data analyses and report preparation as needed to support project planning and technical tasks within the project.

INTEC-SP3 Transportation & Packaging A.1.01.00.03.0C

Provide standardized canister design input data for the packaging, interim storage, shipment, and disposal of SNF. Perform additional evaluations, including comparison of the NSNFP standardized canister against the final design of the canister being developed for the Idaho Dry Storage Facility, and analysis of the Multi-Canister Overpack being used at Hanford for survivability during handling accidents at the repository surface facility. Perform testing to ensure validation of codes and compliance with established requirements. Provide support to RW for transfer of the transportation cask system specifications and the responsibility for procurement of the design, certification, and fabrication of the transportation casks and auxiliary equipment. Provide an interface between RW and the sites on transportation issues and support for document review and commenting. Continue development of remote welding and nondestructive examination needed to perform the final closure weld of the standardized canister. The processes developed will be able to produce, repair (if required), and inspect the closure welds.

INTEC-SP3 Materials & Technology A.1.01.00.03.0D

Perform materials and packaging activities including materials testing and analysis, neutron absorber development, and interfaces with technical and regulatory bodies involved with requirements on SNF-related materials and processes. Work is focused on the usage of the standardized DOE SNF canister as the licensable package for DOE SNF storage, transport, and repository surface facility handling. Interface with the Yucca Mountain Project and Environmental Management storage sites to optimize development of the transportation system for DOE SNF. Evaluate treatment technologies for SNF that may not be directly disposed in the repository.

INTEC-SP3 Quality Assurance A.1.01.00.03.0E

Assess and recommend acceptance of DOE SNF site Quality Assurance (QA) programs related to the characterization, conditioning, storage, and packaging of DOE SNF. Perform four QA SNF Program audits and four SNF site surveillances, eight NSNFP surveillances and two NSNFP supplier surveillances. Maintain an interface with RW QA staff, maintain the National SNF QA Program documents, perform trending and issue QA trending and status reports, review QA records, and perform and verify corrective actions for internal and external audits, assessments, and surveillances. Support quality affecting activities performed by NSNFP technical staff and ensure that those activities are performed in accordance with the NSNFP QA Manual and the RW Quality Assurance Requirements and Description (DOE/RW-0333P). Perform QA oversight of the DOE-ID Nuclear Regulatory Commission (NRC)-licensed Independent Spent Fuel Storage Installations (ISFSIs) which currently include the Three-Mile Island Unit 2 (TMI-2) ISFSI and the Fort St. Vrain ISFSI. The TMI-2 NSNFP QA assessments will focus on real-time fuel management, quality-related activities and assessments listed in the TMI-2 technical specifications, and the minimum assessments stipulated by the TMI-2 Safety Analysis Report. The Fort St. Vrain NSNFP QA assessments will focus on selected assessments from those listed in the Fort St. Vrain technical specifications and the minimum assessments stipulated by the Fort St. Vrain Safety Analysis Report.

INEEL Spent Nuclear Fuel Program

INTEC-SP3 SNFDSP Management & Operations Support A.1.01.00.03.02

The Spent Nuclear Fuel Dry Storage Project (SNFDSP) is being designed, licensed, permitted, constructed, and operated under a DOE-ID contract with Foster Wheeler Environmental Corporation. Bechtel BWXT Idaho, LLC (BBWI) is, and will be, supporting DOE-ID commitments under this contract by (1) preparing the SNF and delivering it to the SNFDSP beginning as early as June 1, 2005, (2) completing INTEC facility modifications necessary to deliver contracted utilities and waste management services, (3) providing billing information for utility and waste management services provided to the SNFDSP, and (4) providing technical information and other miscellaneous support on a task order request basis (request for information).

This control account covers the activities that have been assigned to the BBWI INEEL SNF Program within the SP3 subproject of the INTEC Completion Project. These activities are as followings: (1) collect BBWI costs associated with providing contracted utilities and waste management services to Foster Wheeler Environmental Corporation and providing billing information to DOE-ID; (2) provide technical information and other miscellaneous support to assist DOE-ID management of the SNFDSP contract with Foster Wheeler Environmental Corporation on a task order request basis (request for information); and (3) maintain an integrated schedule for all BBWI activities being performed in support of the SNFDSP contract and providing status reports to that schedule.

INTEC-SP3 SNF Disposition Data A.1.01.00.03.03

Prepares a data package with appropriate information for interim storage at the SNFDSP and for final disposition at the repository. The data will require significant levels of research and review to ensure accuracy. The work scope will include a systematic and organized effort to perform the following work: (1) Location of pertinent fuel information (such as drawings, design and manufacturing information, beginning-of-life and end-of-life data, storage data, handling information, criticality data, isotopic data, heat generation data); (2) refinement of the data to remove inaccuracies, inconsistencies and incompleteness; (3) preparation of models and calculation of physical and radiological characteristics such as radionuclide inventory, heat generation, isotope inventories over time, etc.; (4) assembly of the data into a useable format for interim and final disposition; (5) performance of systematic and complete reviews; (6) data accessibility for future retrieval, analysis and dissemination in specific formats acceptable to the SNFDSP for interim storage and the repository for permanent disposal.

INTEC-SP3 DOE-ID Managed SNF Activities A.1.01.00.03.04

Provide cost elements for those activities within DOE-ID in support of the INEEL SNF program that are appropriately kept by the DOE-ID SNF Program office due to regulations or established interfaces with other government organizations. Provides the SP3 subproject portion of funding for DOE-ID retained activities, which support the removal of SNF from the State of Idaho. The DOE-ID retains and manages several program support activities that are required for (1) maintaining INEEL site baseline information, (2) preparing and updating of National Environmental Policy Act (NEPA) documents, (3) cask inspection, maintenance, and licensing fees, and (4) independent research. Includes funding for the following major activities:

- Provide support for DOE-HQ controlled programs in the area of NEPA/Record of Decision support, independent cost estimates, and Architectural and Engineering services (FY 2005 through FY 2030).
- Scope includes periodic surveillance and maintenance on each cask to document any deficiencies so they may be corrected, maintaining annual Certificates of Compliance, and obtaining renewal of the licenses for each SNF cask.

INTEC-SP3 Treatment of Spent Nuclear Fuel A.1.01.00.03.05

Fermi Blanket SNF contains sodium that may not be acceptable for repository disposition. The fuel may require treatment for removal of sodium prior to shipment to the repository. INTEC CPP-749 has approximately 34 Metric Tons of Heavy Metal (MTHM) Sodium-Bonded Fermi Blanket Spent Nuclear Fuel in storage below ground. The exact method of treatment is unknown. However, it has been assumed that the SNF will be treated via Electrometallurgical Treatment. However, the cost and schedule associated with this type of treatment may be prohibitively high. Therefore, Argonne National Laboratory-West (ANL-W) has been requested to look at alternative treatment techniques. The treatment plan using Electrometallurgical Treatment has been recommended in the Environmental Impact Statement for the Treatment and Management of Sodium Bonded SNF dated FY 2000.

The current work scope assumes Electrometallurgical Treatment of 34 MTHM of Fermi Blanket SNF currently stored at INTEC, CPP-749. In addition, ANL-W is looking at lower cost alternatives to remove the sodium from the Fermi Blanket SNF. The CPP-749 Emptied of Spent Nuclear Fuel Project work scope will be responsible to ship the Fermi Blanket SNF to ANL-W for treatment and storage. The scope of work includes the following activities:

- Prepare for and receive 34 MTHM (contained in 14 containers, each container is approximately 25-inch outside diameter by 158 inches long) of Fermi Blanket SNF at the Hot Fuel Examination

Facility. Fermi Blanket SNF will be sent on a just-in-time schedule to preclude the need of any interim storage at ANL-W.

- At the Hot Fuel Examination Facility, the final method of treatment will determine the work activities and disposition of the fuel and associated waste by-products.

INTEC-SP3 Technology Direction & Integration A.1.01.00.03.06

Characterization Technologies provides the technologies necessary for quantified SNF properties such as physical, chemical, and radiological measurements for the following purposes: (1) safe preparation and disposition of the INEEL assigned DOE-ID SNF from the States of Idaho, Colorado, other DOE sites, domestic locations, and foreign reactor sites; (2) transportation; (3) licensing of SNF canisters and fuel; and (4) NRC licensing of fuel, containers and/or facilities for interim storage and repository disposition. Characterization technologies will be initiated to meet the needs for fuel movements from facility to facility and in preparation of placing the SNF into licensed interim storage. The characterization technologies that will be needed are documented in the INEEL's Science and Technology Needs Database.

Conditioning Technologies provides the technologies to properly condition the SNF as necessary to meet the licensing requirements for interim dry storage while keeping in mind the long-term repository acceptance criteria needs. Spent fuel conditioning will be accomplished prior to interim dry storage in repository standard canisters at the INEEL. Technologies are scaled up and refined to resolve fuel storage and handling issues such as reactivity/corrosion, pressure/gas generation, and exposure/contamination. The INEEL will provide input to NSNFP drying, particulate, and packaging standards development for SNF as necessary to meet storage, transportation, and repository requirements. Additional conditioning technologies have been identified and documented in the INEEL's Science and Technology Needs Database. As repository acceptance criteria are finalized, additional technology requirements may be identified. These additional technologies will have to be developed at a future date.

Storage Technologies will develop the technologies necessary for safe interim dry storage at the INEEL and long-term dry storage at the repository as documented in the INEEL's Science and Technology Needs Database. Ultimately, the technologies will be applied to long-term storage requirements, as they become known to the program.

Other Technology needs have been identified in the INEEL's Science and Technology Needs Database. As repository acceptance criteria are finalized, additional technology requirements may be identified. Any additional technologies will have to be developed at a future date and entered into the INEEL's Science and Technology Needs Database.

Project Management and Support provides the project management and support for the Integrated Technologies Development Project. This includes the day-to-day oversight and direction of the program as well as the financial management, ESH&QA support, change control, and self-assessments needed to manage the technology development program. Administrative support, document control support, and budget personnel support are also included in this control account.

INTEC-SP3 Fort St. Vrain Transferred Fuel A.1.01.00.03.07

The Fort St. Vrain ISFSI in Colorado contains SNF for which the INEEL is responsible. According to the agreement between the U.S. Department of Energy (DOE) and the State of Colorado regarding shipping spent fuel out of Colorado, all SNF located at the Fort St. Vrain ISFSI will be shipped out of Colorado no later than January 1, 2035. The objective of this work is to prepare and transfer all Fort St. Vrain SNF stored at the Fort St. Vrain ISFSI near Platteville, Colorado from its interim dry storage location to the Idaho Spent Fuel Facility at the INEEL for repackaging prior to being shipped to the federal repository. The transfer of this SNF is planned for the timeframe of FY 2018 through FY 2022. There are a total of 1464 units of spent nuclear fuel stored in the Fort St. Vrain ISFSI.

INTEC-SP3 CPP-749 Fuel Transfers A.1.01.00.03.08

Provides for the removal of the CPP-749 SNF inventory from the dry storage wells and transport to packaging or treatment facilities. Removal of SNF from the CPP-749 storage wells is a part of the Idaho Settlement Agreement to remove all SNF from the State of Idaho by January 1, 2035. Preparations for transfer include re-start/startup activities that consist of: project planning, safety documentation,

procedures validations and updates, training, certification of readiness, documentation for transfer, and design, fabrication, and testing of transfer tools and equipment.

Note: The Shippingport Light Water Breeder Reactor (LWBR) seed and blanket SNF cannot be transferred to the Idaho Spent Fuel Facility during its' first five years of operation because it has been eliminated from the DOE-ID/Foster Wheeler Environmental Corporation contract. This facility will need to remain open until such time that the SNF can be received at the Idaho Spent Fuel Facility .

INTEC-SP3 CPP-1774 Fuel Transfers to SNFDSP A.1.01.00.03.09

Provides for the preparations for transfer, cask loading, transportation, and delivery of the existing SNF from interim dry storage at the CPP-1774 ISFSI at the INTEC to the Idaho Spent Fuel Facility for repackaging prior to being shipped to the national repository. The transfer of this SNF is planned for the timeframe of FY 2023 through FY 2028. A total of 29 Three Mile Island (TMI-2) SNF Dry Shielded Canisters with 12 inner canisters per Dry Shielded Canisters will be transferred to the Idaho Spent Fuel Facility for repackaging. In FY 2029, the facility will be transitioned to deactivation.

INTEC-SP3 SNFDSP Facility Activities A.1.01.00.03.0A

This project prepares SNF received from various INEEL facilities and Fort St. Vrain ISFSI near Platteville, Colorado, for long-term storage outside of the State of Idaho at the Federal Repository. These receipts will take place between FY 2010 and FY 2029. All SNF will be repackaged by this Project into repository-acceptable standard canisters and placed into interim storage until shipped or will be placed directly onto the transport for shipment from the State of Idaho to meet the terms of the Idaho Settlement Agreement to have all SNF removed from the state by January 1, 2035. The project components include: Packaging Facility, Dry Storage System, Rail siding and related facilities and equipment. DOE-ID SNF procurement for SNFDSP services includes options for continued facility monitoring and maintenance and for processing and storage of additional fuels by the contractor. The decision will be made at some future time on whether to exercise these options. In order to allow a planning basis to be established for the INEEL SNF Program in the Life-Cycle Baseline, an assumption is made that the DOE-ID contract options are not exercised, and that the Management & Operations contractor will assume responsibility for the facility operation. This approach should provide a bounding estimate for the INEEL SNF Life-Cycle Baseline effort. This planning assumption is only to establish a budget baseline for the SNF Program and is not a decision on the contract options.

INTEC-SP3 Irradiated Fuel Storage Facility (IFSF) Transferred Fuel A.1.01.00.03.0F

The objective of this work is to transfer the SNF presently stored at the IFSF and the SNF that will be received at the IFSF. These transfers of SNF from IFSF will take place over the timeframe from FY 2005 through FY 2027. The transfers will be to the Idaho Spent Fuel Facility presently under contract to be constructed and operated at the INEEL for DOE by Foster Wheeler Environmental Corporation for packaging SNF prior to transfer to the national repository or to treatment at a location TBD. The SNF that requires no further treatment prior to being accepted at the repository will be sent directly to the Idaho Spent Fuel Facility for repository packaging.

2. MAJOR PRODUCTS AND DELIVERABLES:

Calcine Treatment and Disposition Project

- RCRA Part B Permit for storage of calcine in CSSF – submitted for DOE certification (September 30, 2004).
- Final RCRA rulemaking petition to remove calcine from RCRA regulation– submitted to DOE for petition to EPA (September 30, 2004).
- Define Technology Development Needs for calcine disposition (September 30, 2004).
- Perform hot retrieval and characterization demonstration (September 30, 2007).
- Commence calcine retrieval and packaging conceptual design (October 1, 2007).

- Analysis of calcine treatment alternatives to support DOE record of decision (scheduled completion to support start of Conceptual Design – September 30, 2007; DOE milestone in Settlement Agreement – December 31, 2009).
- RCRA Part B Permit for retrieval and packaging of HLW calcine(submitted for DOE certification – September 30, 2011; DOE milestone in Settlement Agreement – December 1, 2012).
- Complete final calcine retrieval and packaging design (December 24, 2013).
- Commence calcine retrieval and packaging construction (July 1, 2014).
- Complete calcine retrieval and packaging construction (March 31, 2020).
- Complete calcine retrieval and packaging facility turnover (March 31, 2022).
- Commence calcine retrieval and packaging operations (April 1, 2022).
- Complete calcine retrieval from last CSSF (March 31, 2030).
- Complete CSSF and calcine retrieval and packaging facility turnover to Subproject 6 (September 30, 2030).

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- Issue repository shipping schedule (January 1, 2005).
- Complete validation of total system performance assessment calculations for DOE SNF (September 30, 2004).
- Issue repository interface control document (September 30, 2004).
- Complete safeguards and security analysis for DOE SNF (September 30, 2004).
- Issue Summary Analysis Report for DOE SNF (September 30, 2004).

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- Receive NRC license approval for SNFDSP (January 1, 2005).
- Complete SNFDSP expansion modification (April 2, 2010).
- Complete transfer of dry storage facilities to INEEL Management & Operations contractor (April 2, 2010).
- Complete turnover of SNFDSP to Subproject 6 (September 30, 2030).
- Provide design packages for October 1, 2004 Project Baseline Fuel Handling Units (baseline change proposal pending) (January 2, 2006).
- Provide design packages for April 1, 2005 PB Fuel Handling Units (baseline change proposal pending) (July 1, 2006).
- Stabilize Uranium Metal and Alloy Fuel Matrix (September 30, 2005).
- Dry carbide/graphite SNF (September 30, 2005).
- Develop method for detection of interactions between SNF and storage container (September 30, 2008).
- Identify technology needs for insoluble neutron poison (September 30, 2008).
- Develop technology to measure integrity of a dry SNF storage container (September 30, 2010).
- Develop method to detect/mitigate microbially-induced corrosion in a storage container (September 30, 2010).
- Develop method to treat sodium and reactive metal SNF prior to processing (September 30, 2010).
- Develop method to immobilize/encapsulate SNF debris/particulate (September 30, 2010).

- Develop a process for removal of organic-bearing material from SNF (September 30, 2010).
- Complete transfer of Fort St. Vrain SNF to INEEL (September 30, 2022).
- Complete transfer of Peach Bottom fuel to SNFDSP (September 30, 2005).
- Commence repackaging and storage of repository-ready canisters (December 31, 2005).
- Complete transfer of Shippingport LWBR SNF to SNFDSP (November 30, 2006).
- Complete transfer of Fermi I Blanket canisters to treatment facility (September 30, 2010).
- Complete removal of SNF from CPP-749 (September 30, 2019).
- Complete transfer of CPP-1774 (ISFSI) SNF to SNFDSP (September 30, 2023).
- Complete SNFDSP expansion Line Item Construction Project Conceptual Design Report (September 30, 2005).
- Commence SNFDSP operations (September 30, 2005).
- Receive NRC license approval for SNFDSP expansion (October 1, 2007).
- Commence SNFDSP Expansion operations (September 30, 2009).
- Commence transfer of SNF to repository (January 1, 2011).
- Complete transfer of Fort St. Vrain SNF to repository (September 30, 2022).
- Complete transfer of on-site receipts SNF to repository (September 29, 2030).
- Complete transfer of TMI-2 SNF to repository (October 2, 2028).
- Complete transfer of balance of miscellaneous SNF to repository (October 1, 2029).
- Complete removal of all SNF from SNFDSP and State of Idaho (December 31, 2029).

3. ESTIMATE DEVELOPMENT BASIS:

The estimate was developed by the cost estimating discipline using a variety of methods to calculate the cost of activities. The methods of estimating individual activities included bottoms up, parametric, specific analogy, and expert opinion techniques in conjunction with historical information gathered from past major INEEL projects.

The estimate for Calcine Disposition was based on activity specific estimates through 2007. For the design, construction, and operation phases, existing feasibility studies and engineering design files (EDFs) were supplemented with activity specific estimates to develop the cost estimate. The feasibility studies and EDFs were originally developed for the High Level Waste and Facility Disposition Environmental Impact Statement, but were reviewed and modified to reflect the retrieval and packaging of directly disposed calcine.

The estimate for the National Spent Fuel Program was essentially unchanged from previous estimates, as the scope of work remained the same as in previous years. Those work packages associated with the local Spent Fuel Program were identified and mapped to Subproject 3 from their original project baseline summaries. They were modified – either reduced or supplemented with activity specific estimates – based on the assumptions and milestones identified for Subproject 3.

The estimate basis for all of Subproject 3 is an extension of the planning laid out in the FY 2003 detailed work plan and extended out through the life cycle with costs adjusted as appropriate to match logical scope and planning assumptions. Further clarification of the estimate methods and assumptions are contained in the activity specific Basis of Estimate.

4. ASSUMPTIONS:

- Certification, packaging and preparation of SNF to the repository are included in the Life-Cycle Baseline. First shipment in 2010. No transportation costs to be included.

- National SNF Program will not transfer to the office Radioactive Waste in FY 2004 and therefore is included in the Life-Cycle Baseline.
- Calcine will be sent to the repository to allow completion of deactivation, decontamination, and decommissioning of the retrieval and packaging facility and CSSF by December 31, 2035.
- Spent fuel and calcine will be disposed of separately, on separate schedules. Co-disposal is not planned.
- Characterization of the CSSF sumps required by the Voluntary Consent Order will be accomplished using process knowledge. Access to the sumps for characterization will not be required until they are closed as part of the CSSF RCRA closure plan(s).
- For the purposes of Life-Cycle Baseline planning, calcine will be directly disposed without a stabilization treatment other than packaging in standard canisters. Direct disposal in larger canisters will be evaluated as an enhancement.
- Receipt and transfer of Navy SNF between NRF and CPP-666 are included in INTEC-SP1.
- EBR-II SNF will be transferred for treatment at ANL-W as part of SP1. Treatment of the EBR-II SNF at ANL-W and its disposition (planning and costs) at the repository will not be the responsibility of Environmental Management.
- Disposition of the Fermi Blanket SNF was not decided in the record of decision. For Life-Cycle Baseline purposes, it is assumed that it will be treated at ANL-W with the electro-metallurgical treatment process as part of SP3. Environmental Management is responsible for treatment costs but none of the ANL-W hotel load.
- The Advanced Test Reactor (ATR) Program will continue to ship SNF to INTEC through FY 2010. It will be received at the CPP-666 facility through FY 2005, and then at the IFSF through FY 2010. After FY 2010, the ATR Program will be responsible for shipment of the SNF directly to the repository.
- Unirradiated LWBR SNF in CPP-749 is part of Subproject 2.
- The INEEL SNF Program will cease to receive any SNF after FY 2030. Other programs will be responsible for managing any remaining SNF that was to be shipped to the INEEL in accordance with the record of decision.
- The waste acceptance criteria at the repository will result in no further characterization of the INEEL DOE-owned SNF. All transportation to the repository and storage requirements at the repository for SNF will be accomplished by the use of the standard canister.
- The federal repository will begin receiving SNF from the INEEL in FY 2010 and calcine by FY 2022. The shipment schedule currently presented in the DOE RW Waste Acceptance System Requirements Document (WASRD) will not be used until formal approval and direction are given.
- The SNFDSP will begin startup under Foster Wheeler and the INEEL SNF Program will be ready to ship SNF to Foster Wheeler by December 2005.
- The initial complement of SNF assigned to Foster Wheeler for packaging and placement into interim storage will be completed by April 1, 2010.
- Responsibility for the SNFDSP will be transferred from Foster Wheeler to the INEEL SNF Program on April 1, 2010.
- Expansion of the SNFDSP using a Line Item Construction Project will be limited to a rail spur, standard canister receipt and increased load-out capabilities as a stand-alone facility or modular addition to SNFDSP. Just-in-time shipping to the Yucca Mountain Project will be required to minimize lag storage requirements.
- The Fort St. Vrain SNF inventory in Colorado will be shipped to the INEEL for placement into repository acceptable standard canisters prior to shipment to the repository.

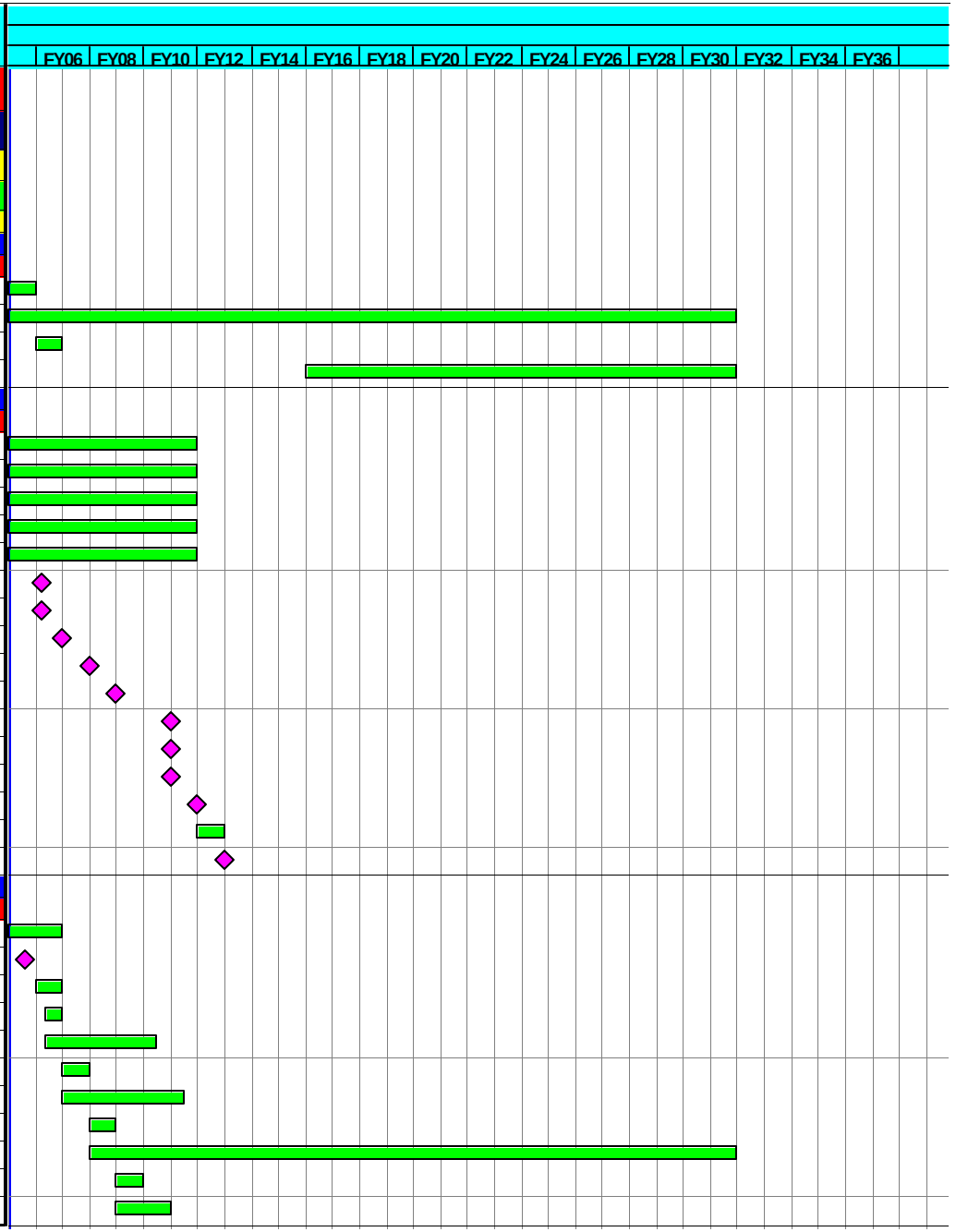
- The DOE Environmental Impact Statement Records of Decision and related amendments for disposition of DOE SNF and HLW will be followed.
- Use of standard canisters for packaging SNF eliminates the need for conditioning and nondestructive assay of INEEL SNF.
- A transportation cask capable of holding nine18-in diameter x 15-ft long standard canisters will be available for shipment to the repository starting in 2010.
- Subproject 3 will support design and implementation of the transportation system in conjunction with RW and various SNF and high-level waste programs at each DOE site. RW will retain responsibility for transportation of SNF and HLW. Shipping and disposal costs for are born by the office of Radioactive Waste.
- No additional SNF will be identified for INEEL disposition (see IPABS FY 2001 approved data [August 28, 2001] SNF Disposition Map and Quantity Tables).
- SNF will be packaged to meet transportation and repository safeguards and security requirements.
- Tank Farm Sodium Bearing Waste is TRU Waste and will not be placed in the CSSF or require packaging or shipping support from Subproject 3. CSSF #7 will not be used except as a demonstration/training facility for D&D&D of the other CSSFs.
- The calcine treatment method is selected by the end of FY 2007 to fulfill the 2009 Settlement Agreement milestone for a record of decision on calcine treatment and to allow conceptual design to commence in FY 2008
- If the calcine treatment record of decision selects a treatment other than direct disposal, the SA date for a RCRA Part B Permit submission by December 1, 2012, will require renegotiation. Renegotiation of dates based on NEPA is allowed for in the SA.
- The RCRA Part B Permit for calcine treatment will be based on completion of preliminary Title I design.
- Technology development for spent fuel and calcine treatment and disposition will be planned as part of Subproject 3, including scope, cost and schedule.
- Calcine treatment and shipping begins in 2022 and is substantively completed by March of 2030. Minimal shipping of calcine residues from April 2030 to September 2030 may be needed to complete facility sweep-down and reduce residuals below approximately 1% of original inventory. Waste generation during RCRA closure and deactivation, decontamination, and decommissioning of the last CSSF and retrieval and packaging facility after turnover to Subproject 6 is the responsibility of Subproject 6.
- The remote analytical laboratory will not be available for calcine retrieval, packaging, treatment, and RCRA closure. Consideration for analytical analyses supporting waste acceptance of calcine at the repository are included in the project.
- Subproject 3 is responsible for the waste generated during hot demonstrations, operation of calcine retrieval, and packaging, treatment, sampling and analyses of calcine for waste acceptance.
- Calcine will be shipped just in time to the Yucca Mountain Project with minimal lag storage. Shipping occurs from FY 2022 through FY 2030.
- Transfer of each CSSF to Subproject 6 for RCRA closure occurs as the CSSFs are emptied. Transfer of the last CSSF and retrieval and packaging facility occurs within one year of final retrieval. Turnover criteria are the removal of calcine sufficient to allow removal of bins for disposal at an existing disposal facility with Waste Acceptance Criteria similar to the ICDF (approximately 99% removal).
- SP6 accepts responsibility for each CSSF within one year after each CSSF is emptied of calcine and for SNFDSP within one year after it is emptied of fuel.
- The RW QARD will be incrementally implemented for calcine as activities affecting waste acceptance are initiated.

- Subproject 0 has responsibility for routine operation and monitoring of the CSSF, including the safety basis. The RCRA Permit for calcine storage in CSSF is the responsibility of Subproject 3. This is an exception to standard development of RCRA permits, but is necessary to allow coordination between permit development and the calcine retrieval and characterization hot demonstration planned for 2007.
- Operation (including in-situ demonstrations, RCRA permitting, safety analyses, operational readiness reviews and start-up testing) of the calcine retrieval and treatment process is the responsibility of Subproject 3.
- The calcine vault sumps that are addressed in VCO SITE-TANK-005 System Identification document INTEC-085 are assumed be non-RCRA hazardous and will not require any follow-on actions.
- The treatment and conditioning technologies necessary to make existing INEEL DOE-owned SNF acceptable at the Monitored Geologic Repository will be developed and deployed as needed to support the approved transportation schedule.
- Fuel moved from CPP-2707 will not require repackaging at the SNFDSP and will pass through in the same cask to the Yucca Mountain Project. RW will be responsible for the cost of the move.

5. SCIENCE AND TECHNOLOGY NEEDS

Science and Technology Need Number	Science and Technology Need Description
None Identified	

Activity ID	Activity Description	Early Start	Early Finish
INEEL			
EM Project			
INTEC Completion			
INTEC Completion			
CPP-SP3 SNF and Calcine Disposition			
SP-3 Project Management			
SP-3 Project Management			
3LCADJ01	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
3LH001	Subproject 3 Project Management	01OCT03	30SEP30
3LCADJ02	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
3LCADJ03	FY15 to FY30 Contingency Adjustment (+75% FY05)	01OCT14*	30SEP30
Nuclear Materials Engineering & Disposition P.M.			
NSNFP Execution & Information Management			
3LS64100	Project Management Support	01OCT03	30SEP10
3LS64103	Records Mgmnt & Training	01OCT03	30SEP10
3LS64106	Quality Engineering	01OCT03	30SEP10
3LS64107	Master Logic Schedule	01OCT03	30SEP10
3LS64110	Stakeholder Interaction	01OCT03	30SEP10
3LS21013	Supply analytical data to YM for license applic		15DEC04*
3LS50040	Repository shipping schedule issued		01JAN05*
3LS21014	Cplt dropt test & final rept on stand'd canister		30SEP05*
3LS21015	Cplt NRC req for info on repository license appl		30SEP06*
3LS21019	Cplt Transportability Report on MCOs		30SEP07*
3LS21016	Dvlp tech guidance for DOE SNF Custodians for SN		30SEP09*
3LS21017	Cplt further analyses to supt NRC req for inform		30SEP09*
3LS21021	Cplt lic appl input for amendment process		30SEP09*
3LS21020	Cplt supt to DOE custodians in 1st shipm't to YM		30SEP10*
3LS64016	NSNFP Program Closeout	01OCT10	30SEP11
3LS21018	Cplt closeout of all NSNFP activities		30SEP11
CPP-SP3 SNFDSP M&O Support			
CPP-SP3 SNFDSP M&O Support			
3LS13038	SNFDSP M&O Support FY04 - FY05	01OCT03	30SEP05
3LS13035	SNFDSP NRC License Approval		30APR04*
3LS13202	New Proj Definition/Supt Privatized SNFDSP FY05	01OCT04*	30SEP05
3LS52025	Ops DSP Delivery Conceptual Design	01FEB05*	30SEP05
3LS52024	Ops DSP Delivery Proj Mgmt	01FEB05*	01APR09
3LS13203	New Proj Definition/Supt Privatized SNFDSP FY06	03OCT05	29SEP06
3LS13041	Utilities & Svcs for SNFDSP FY05 - FY10	03OCT05	01APR10
3LS13204	New Proj Definition/Supt Privatized SNFDSP FY07	02OCT06	28SEP07
3LS55001	SNFDSP Maintained Facility	02OCT06*	30SEP30
3LS13205	New Proj Definition/Supt Privatized SNFDSP FY08	01OCT07	29SEP08
3LS52008	SNFDSP GPP Projects FY08 - FY09	01OCT07*	30SEP09



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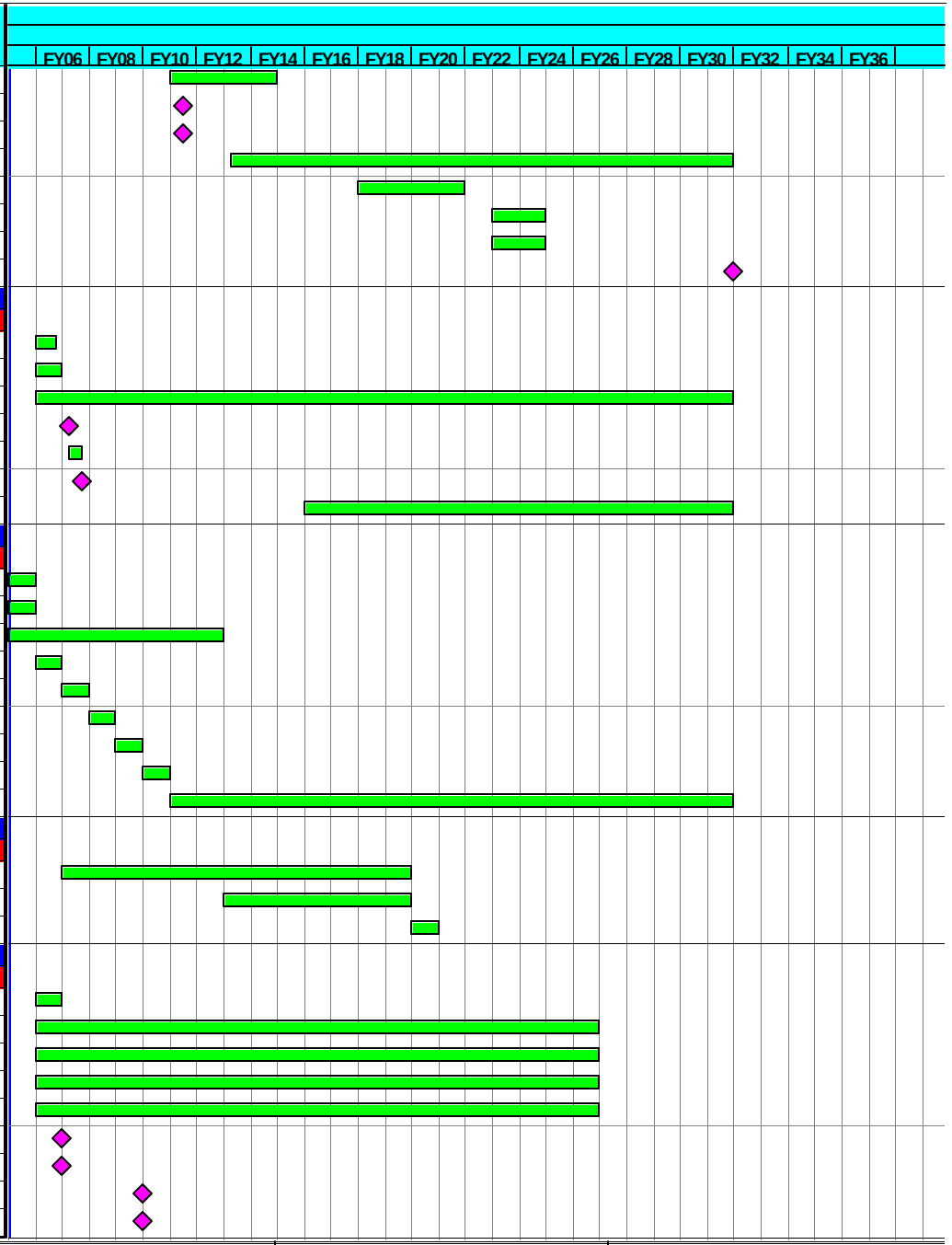
Activity ID	Activity Description	Early Start	Early Finish
3LS52010	SNFDSP GPP Projects FY10 - FY13	01OCT09*	30SEP13
3LS13207	Complete SNFDSP expansion Modification		02APR10*
3LS13208	Compl Transfer Dry Stor Facilities to INEEL M&O		02APR10*
3LS54001	SNF 103 Support (Phase 2)	03JAN12*	30SEP30
3LS52017	SNFDSP GPP Projects FY17 - FY20	03OCT16*	30SEP20
3LS52022	SNFDSP GPP Projects FY22 - FY23	01OCT21*	29SEP23
3LS52023	SNF Const Proj Direction/Integration	01OCT21*	29SEP23
3LS55005	Turnover SNFDSP to D&D		30SEP30
CPP-SP3 SNF Disposition Data			
CPP-SP3 SNF Disposition Data			
3LS17199	INEEL SNF Disposition Data	01OCT04*	01JUL05
3LCADJ04	FY-05 Contingency Adjustment (-75%)	01OCT04*	30SEP05
3LS17200	INEEL SNF Disposition Data	01OCT04*	30SEP30
3LS11100	Provide dsgn pkgs for 10/1/04 PB FHUs (BCP pend)		02JAN06*
3LS17201	INEEL SNF Disposition Data	03JAN06	30JUN06
3LS11101	Provide dsgn pkgs for 4/1/05 PB FHUs (BCP pend)		01JUL06*
3LCADJ05	FY15 to FY30 Contingency Adjustment (+75% FY05)	01OCT14*	30SEP30
CPP-SP3 DOE-ID Managed SNF Activities			
CPP-SP3 DOE-ID Managed SNF Activities			
3LS15202	DOE-ID Funds SNFDSP	01OCT03	30SEP04
3LS15214	DOE-ID Funds SNF-105	01OCT03	30SEP04
3LS15200	DOE-ID Funds SNF-101	01OCT03	30SEP11
3LS15204	DOE-ID Funds SNFDSP	01OCT04	30SEP05
3LS15206	DOE-ID Funds SNFDSP	03OCT05	29SEP06
3LS15208	DOE-ID Funds SNFDSP	02OCT06	28SEP07
3LS15210	DOE-ID Funds SNFDSP	01OCT07	30SEP08
3LS15212	DOE-ID Funds SNFDSP	01OCT08	30SEP09
3LS15216	DOE-ID Funds SNFDSP	01OCT09	30SEP30
CPP-SP3 Treatment of Spent Nuclear Fuel			
CPP-SP3 Treatment of Spent Nuclear Fuel			
3LS16205	Treatment of Spent Nuclear Fuel FY06 - FY18	01OCT05	30SEP18
3LS16200	Treatment of Spent Nuclear Fuel FY12 - FY18	01OCT11*	30SEP18
3LS16207	Treatment of Spent Nuclear Fuel FY19	01OCT18	30SEP19
CPP-SP3 Technology Direction & Integration			
CPP-SP3 Technology Direction & Integration			
3LCADJ06	FY-05 Contingency Adjustment (-75%)	01OCT04*	30SEP05
3LS18200	Technology Direction & Integration	01OCT04*	30SEP25
3LS19200	Demonstrated Characterization Technology	01OCT04*	30SEP25
3LS20200	Demonstrated Storage Technologies	01OCT04*	30SEP25
3LS21004	Demonstrated Conditioning Technologies	01OCT04*	30SEP25
3LS21005	Stabilize Uranium Metal & Alloy Fuel Meat Matrix	30SEP05*	
3LS21006	Dry Carbide/Graphite Spent Nuclear Fuel	30SEP05*	
3LS21007	Detect Interactions Between SNF & Stor Container	30SEP08*	
3LS21008	Identify tech needs for Insoluble Neutron Poison	30SEP08*	



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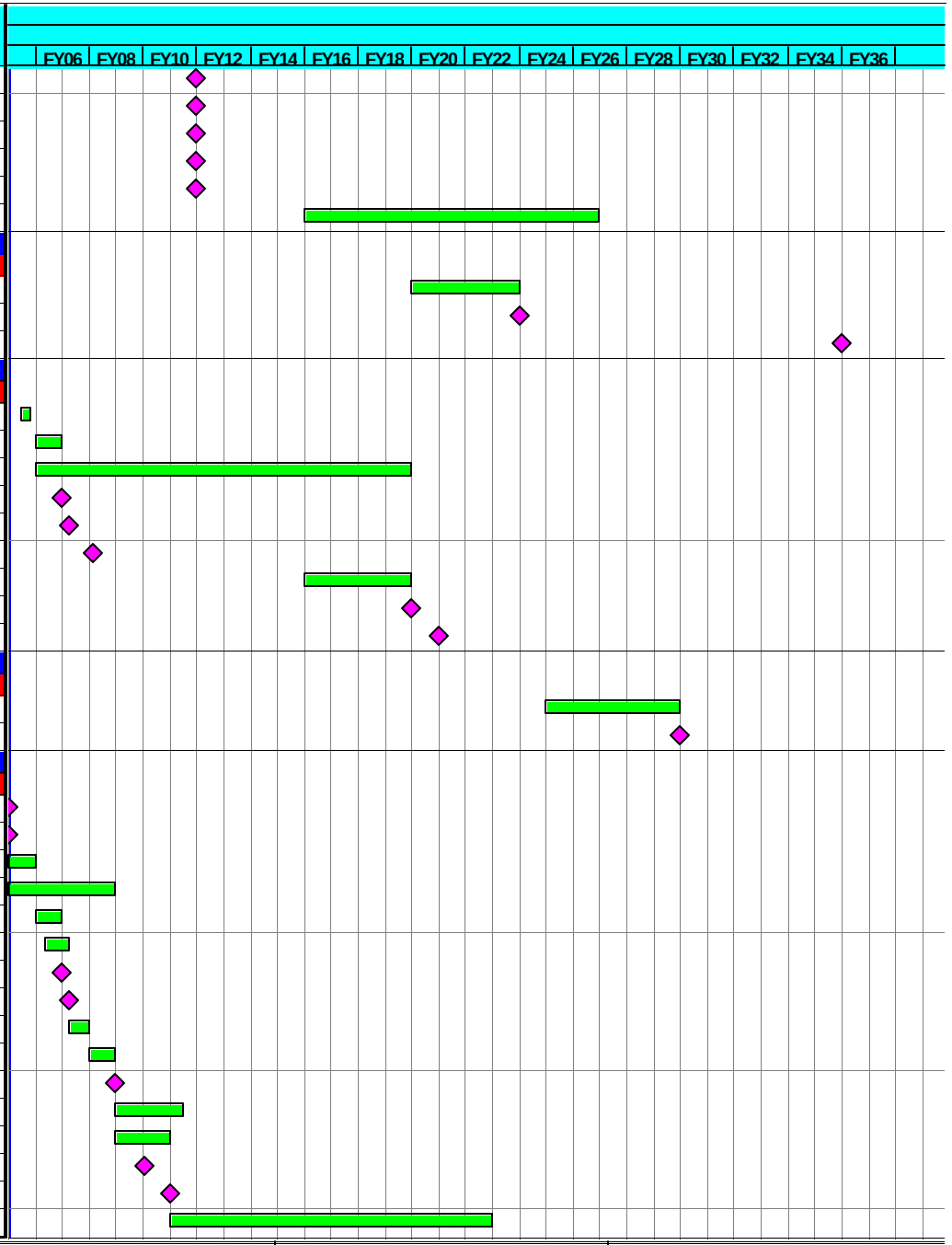
Activity ID	Activity Description	Early Start	Early Finish
3LS20005	Tech to meas integrity of dry SNF stor container	30SEP10*	
3LS21009	Detect & Mitigate Microbially Ind Corr in Cntnr	30SEP10*	
3LS21010	Treat Sodium & Reactive Mtl SNF prior to process	30SEP10*	
3LS21011	Ident Means to immob/encap SNF debris/particulat	30SEP10*	
3LS21012	Ident process for remvl of organic matl fr SNF	30SEP10*	
3LCADJ07	FY15 to FY25 Contingency Adjustment (+75% FY05)	01OCT14*	30SEP25
CPP-SP3 FSV Transferred Fuel			
CPP-SP3 FSV Transferred Fuel			
3LS37200	FSV Transferred Fuel	01OCT18	30SEP22
3LS37005	FSV SNF transf to INEEL cplt (244 cask loads)		30SEP22
3LS37204	Cplt removal of all SNF from FSV (Colorado)		30SEP34*
CPP-SP3 CPP-749 Fuel Transfers			
CPP-SP3 CPP-749 Fuel Transfers			
3LS41020	CPP-749 DSP Transfers FY04	01APR04*	16JUL04
3LCADJ08	FY-05 Contingency Adjustment (-75%)	01OCT04*	30SEP05
3LS41200	CPP-749 Fuel Transfers	01OCT04*	30SEP18
3LS41012	Transf Peach Bottom fuel to SNFDSP		30SEP05*
3LS41014	Start repkg & storage repository-ready canisters	31DEC05*	
3LS41013	Transf Shippingport LWBR to SNFDSP	30NOV06*	
3LCADJ09	FY15 to FY18Contingency Adjustment (+75% FY05)	01OCT14*	30SEP18
3LS41017	Transf Fermi I Blnkt cans to Treatment		30SEP18*
3LS41018	Cplt removal of SNF from CPP-749		30SEP19*
CPP-SP3 CPP-1774 Fuel Transfers to SNFDSP			
CPP-SP3 CPP-1774 Fuel Transfers to SNFDSP			
3LS48200	CPP-1774 Dry Storage Transferred Fuel	01OCT23*	30SEP28
3LS48006	Transfer CPP-1774 SNF to SNFDSP		30SEP28
CPP-SP3 SNFDSP Facility Activities			
CPP-SP3 SNFDSP Facility Activities			
3LS13201	CD-0 Approve Mission Need (SNFDSP Expansion)		01OCT03*
3LS67206	CD 4 Approval to Start Const (SNFDSP)	01OCT03*	
3LCADJ10	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
3LS52027	SNF Future Stor/Transfer Cell Expansion	02OCT03	28SEP07
3LCADJ11	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
3LS67207	SNFDSP Construction	31JAN05*	31DEC05
3LS13037	SNFDSP expansion LICP Concept Dsgn Report		30SEP05*
3LS13206	SNFDSP Start Operations	31DEC05*	
3LS67200	SNFDSP Facility FY06 (Privatized)	03JAN06*	29SEP06
3LS67210	SNFDSP Facility FY07 (Privatized)	02OCT06	28SEP07
3LS53005	NRC License received for SNFDSP expansion		01OCT07*
3LS67211	SNFDSP Facility FY08 - FY10 (Privatized)	01OCT07	01APR10
3LS53202	SNFDSP Future Stor/Transf Cell Expans FY08-FY09	02OCT07*	30SEP09
3LS50205	Complete FW Receipts/Repkg/Transfers (Phase III)		31OCT08*
3LS53006	SNFDSP expansion operational (by M&O contractor		30SEP09*
3LS50200	SNFDSP On-site Receipts	01OCT09	30SEP21



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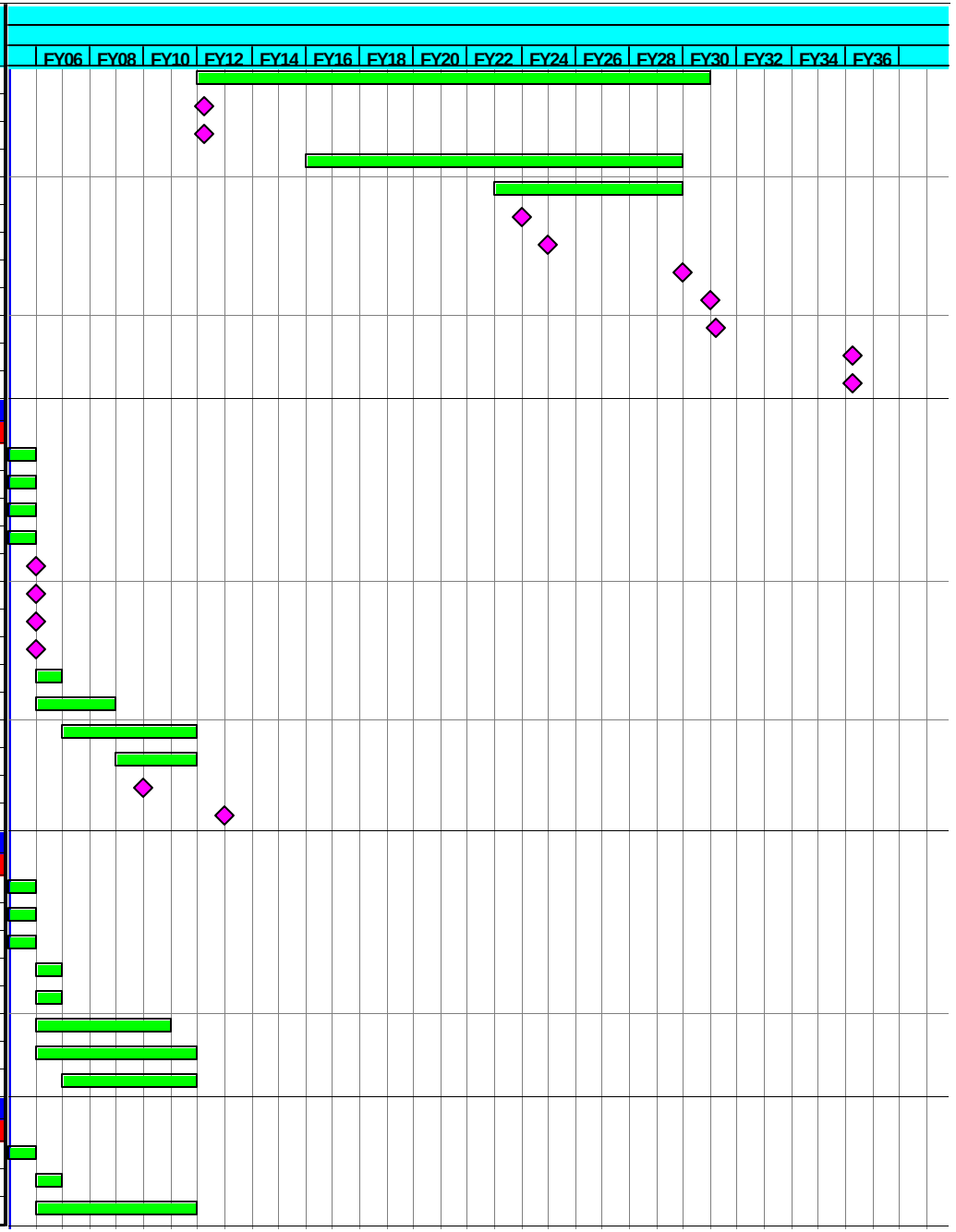
Activity ID	Activity Description	Early Start	Early Finish
3LS51200	SNFDSP Transferred Fuel	01OCT10*	28SEP29
3LS50041	Repository open to receive DOE SNF		31DEC10*
3LS50039	Start transfer of SNF from INEEL to repository	01JAN11*	
3LCADJ12	FY15 to FY29 Contingency Adjustment (+75% FY05)	01OCT14*	30SEP28
3LS50201	SNFDSP On-site Receipts	01OCT21	30SEP28
3LS50036	Transfer FSV SNF to repository		30SEP22
3LS51034	Transfer SNF canisters to repository		29SEP23*
3LS50037	Transfer TMI-2 SNF to repository		02OCT28*
3LS50038	Transfer balance of misc SNF to repository		01OCT29*
3LS51036	Complete removal of all SNF from SNFDSP		24DEC29*
3LS51201	Cplt final shipmnt of all EM-legacy SNF to repos		31DEC34*
3LS51999	All SNF Removed from State of Idaho		01JAN35*
CPP-SP3 Repository Analysis			
CPP-SP3 Repository Analysis			
3LS61203	Criticality Analysis FY04	01OCT03	30SEP04
3LS61300	Design Envelope FY04	01OCT03	30SEP04
3LS61400	Yucca Mountain Support FY04	01OCT03	30SEP04
3LS61500	Technical Planning & Analytical Support FY04	01OCT03	30SEP04
3LS66000	Cplt validation of TSPA calcs for DOE SNF		30SEP04*
3LS66001	Issue Repository Interface Control Document		30SEP04*
3LS6602	Cplt Safeguards & Security Analysis for DOE SNF		30SEP04*
3LS6603	Issue Summary Analysis Report for DOE SNF		30SEP04*
3LCADJ13	FY-05 Contingency Adjustment (-75%)	01OCT04*	30SEP05
3LS61200	Repository Analysis FY05 - FY07	01OCT04*	28SEP07
3LCADJ14	FY06 to FY10 Contingency Adjustment (+75% FY05)	01OCT05*	30SEP10
3LS61205	Repository Analysis FY08 - FY10	01OCT07	30SEP10
3LS6604	Repos accept criteria will incl bare intact fuel		30SEP08*
3LS6605	Iss decision on transf of remaining fuels		30SEP11*
CPP-SP3 Transportation & Packaging			
CPP-SP3 Transportation & Packaging			
3LS62203	Canister Basket FY04	01OCT03	30SEP04
3LS62209	Transportation System Support FY04	01OCT03	30SEP04
3LS62215	Weld Development	01OCT03	30SEP04
3LCADJ15	FY-05 Contingency Adjustment (-75%)	01OCT04*	30SEP05
3LS62220	Canister Analysis	01OCT04*	30SEP05
3LS62210	MCO Transportation Analysis	01OCT04*	30SEP09
3LS62200	Transportation and Packaging Support	01OCT04*	30SEP10
3LCADJ16	FY06 to FY10 Contingency Adjustment (+75% FY05)	01OCT05*	30SEP10
CPP-SP3 Materials & Technology			
CPP-SP3 Materials & Technology			
3LS63013	Materials Analysis FY04	01OCT03	30SEP04
3LCADJ17	FY-05 Contingency Adjustment (-75%)	01OCT04*	30SEP05
3LS63004	Materials & Packaging	01OCT04*	30SEP10



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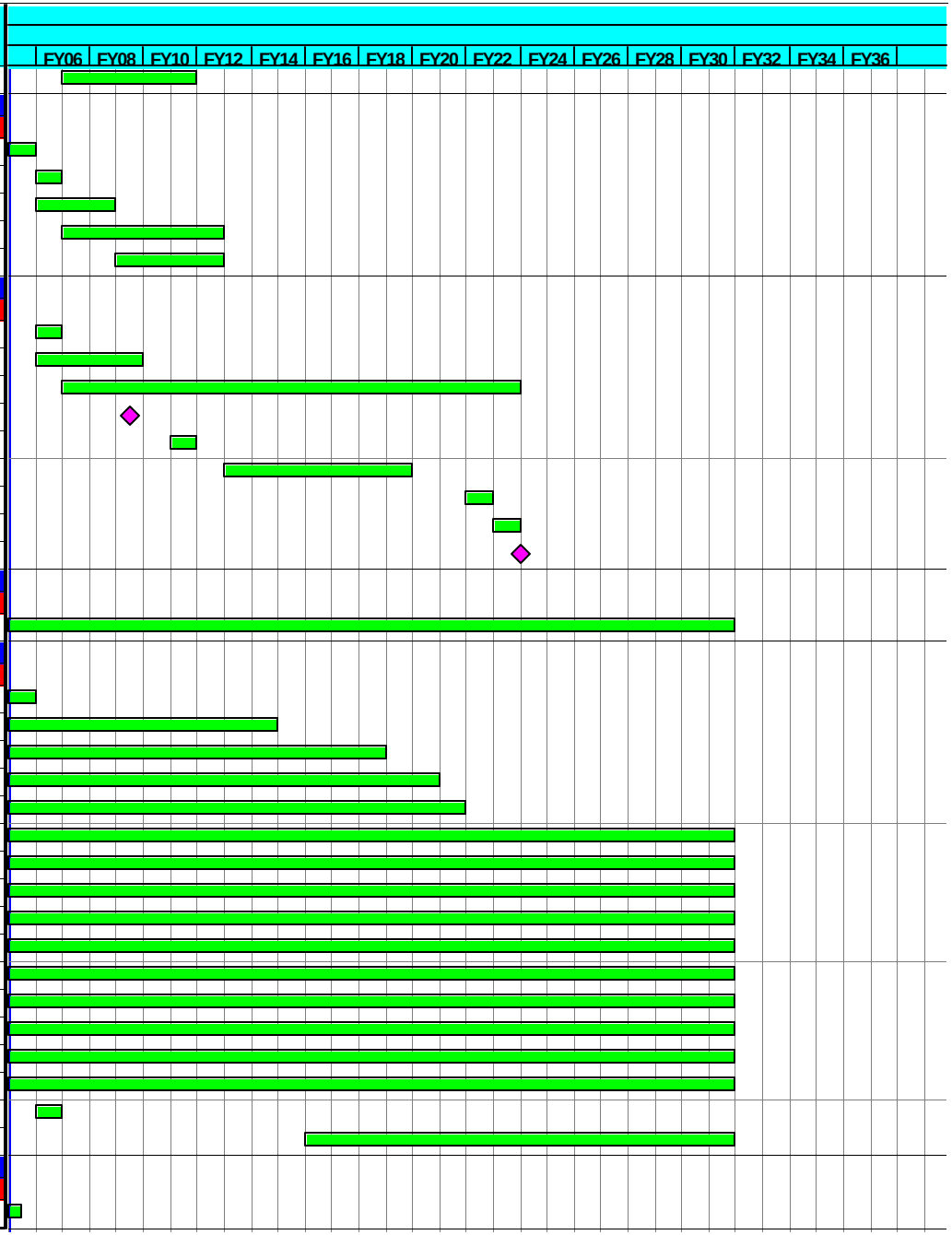
Activity ID	Activity Description	Early Start	Early Finish
3LCADJ18	FY06 to FY10 Contingency Adjustment (+75% FY05)	01OCT05*	30SEP10
CPP-SP3 Quality Assurance			
CPP-SP3 Quality Assurance			
3LS65107	National SNF QA FY04	01OCT03	30SEP04
3LCADJ19	FY-05 Contingency Adjustment (-75%)	01OCT04*	30SEP05
3LS65004	National SNF QA FY05 - FY07	01OCT04*	28SEP07
3LCADJ20	FY06 to FY11 Contingency Adjustment (+75% FY05)	01OCT05*	30SEP11
3LS65010	National SNF QA FY08 - FY11	01OCT07	30SEP11
CPP-SP3 IFSF Transferred Fuel			
CPP-SP3 IFSF Transferred Fuel			
3LCADJ21	FY-05 Contingency Adjustment (-75%)	01OCT04*	30SEP05
3LS43200	IFSF Transferred Fuel	01OCT04*	30SEP08
3LCADJ22	FY06 to FY22 Contingency Adjustment (+75% FY05)	01OCT05*	30SEP22
3LS43029	Transf TRIGA & Peach Bottom SNF to SNFDSP		31MAR08*
3LS43201	IFSF Transferred Fuel	01OCT09*	30SEP10
3LS43202	IFSF Transferred Fuel	03OCT11*	28SEP18
3LS43203	IFSF Transferred Fuel	01OCT20*	30SEP21
3LS43204	IFSF Transferred Fuel	01OCT21	30SEP22
3LS43031	Transf misc SNF fuel to SNFDSP complete		30SEP22
SNF Project Management (SNF-102/103)			
SNF Project Management (SNF-102/103)			
3LS64020	SNF Project Management (SNF-102/SNF-103)	01OCT03	30SEP30
Calcine Disposition Project Management			
Calcine Disposition Project Management			
3LCADJ23	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
3LH1570	Strategic Planning	01OCT03	30SEP13
3LH1480	Project Management - R&D Coordination	01OCT03	29SEP17
3LH1630	Technical Editing	01OCT03	30SEP19
3LH1640	Printing	01OCT03	30SEP20
3LH1470	Project Management - Project Coordination	01OCT03	30SEP30
3LH1500	Administrative Support	01OCT03	30SEP30
3LH1540	DOE - HQ Liaison	01OCT03	30SEP30
3LH1590	Project Controls	01OCT03	30SEP30
3LH1610	Records Management	01OCT03	30SEP30
3LH1620	Communications Support	01OCT03	30SEP30
3LH1650	Office Supplies	01OCT03	30SEP30
3LH1660	Travel for Training	01OCT03	30SEP30
3LH1670	Training	01OCT03	30SEP30
3LH1680	Travel for Business	01OCT03	30SEP30
3LCADJ24	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
3LCADJ25	FY15 to FY30 Contingency Adjustment (+75% FY05)	01OCT14*	30SEP30
Regulatory			
RCRA Regulatory Strategy Direct Disposal			
3LH790	Update Screening Models	01OCT03*	31MAR04



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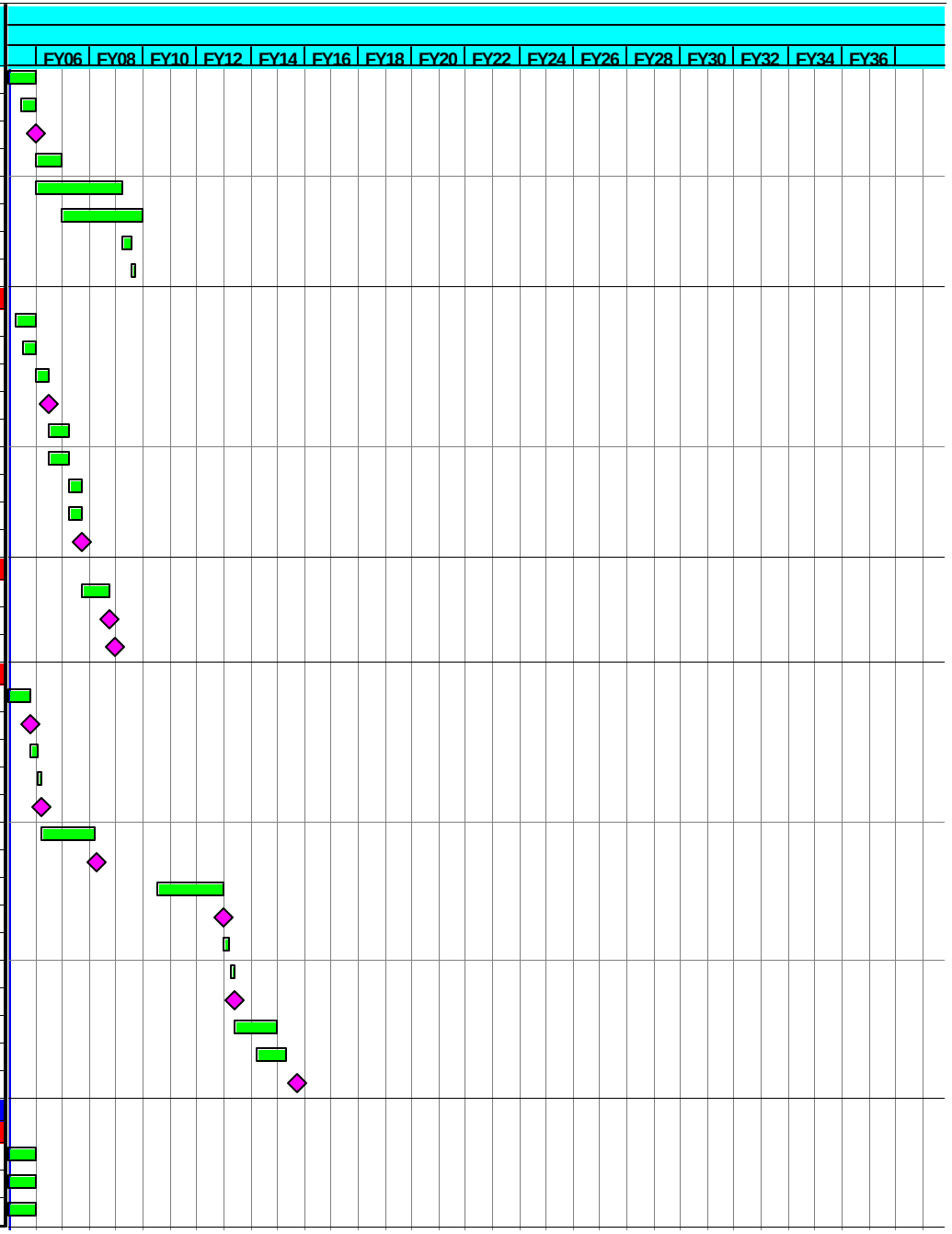
Activity ID	Activity Description	Early Start	Early Finish
3LCADJ26	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
3LH795	Incorporate data into Rulemaking Petition	01APR04	30SEP04
3LH797	Submit Final RCRA Rulemaking Petition to DOE		30SEP04
3LCADJ27	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
3LH800	Submit Petition to EPA, EPA Review, Public Notif	01OCT04	02JAN08
3LCADJ28	FY06 to FY08 Contingency Adjustment (+75% FY05)	01OCT05*	30SEP08
3LH805	Support EPA Public Comment-Resolution Period	03JAN08	30APR08
3LH820	Support EPA Development of Final Rule	01MAY08	27JUN08
RCRA Regulatory Strategy Alternate Treatment			
3LH150	Develop Delisting & LDR Petition Strategies	02JAN04*	30SEP04
3LH200	DQO Process and SAP Development	12APR04	30SEP04
3LH100	Confer with Stakeholders	01OCT04	31MAR05
3LH250	Stakeholder Consensus	01APR05	
3LH300	Incorporation of Results from Cold Bench Work in	01APR05	03JAN06
3LH350	Sample, Analyze, and Test Waste Form Product fro	01APR05	03JAN06
3LH400	Update Models and Model Report	04JAN06	03JUL06
3LH450	Confer with Stakeholders	04JAN06	03JUL06
3LH455	Alternative treatment protective of human health		03JUL06
NEPA			
3LH465	NEPA Analysis	05JUL06	02JUL07
3LH475	Calcine Treatment ROD		02JUL07
3LH1710	Issue ROD on Calcine Treatment Path Forward		28SEP07*
RCRA Permitting			
3LH1613	Develop RCRA Part B Permit CSSF Storage	01OCT03	30JUL04
3LH1615	Submit RCRA Part B Permit CSSF Storage to DOE		30JUL04
3LH1617	DOE Review Part B Permit CSSF Storage	02AUG04	29OCT04
3LH1619	Incorporate DOE Comments on Part B Permit CSSF	01NOV04	23DEC04
3LH1623	Submit Part B Permit CSSF Storage to DEQ		23DEC04
3LH1625	Support DEQ NOD Response	03JAN05	22DEC06
3LH1627	RCRA Part B Permit for CSSF Storage approved		31DEC06*
3LH1601	Develop RCRA Part B Permit for Ret/Pack Facility	10APR09	30SEP11
3LH1603	Submit Part B Permit for Ret/Pack Fac to DOE		30SEP11
3LH1605	DOE Review Part B Permit for Ret/Pack Facility	03OCT11	23DEC11
3LH1607	Incorporate DOE comments on Part B Ret/Pack Fac	03JAN12	29FEB12
3LH1611	Submit RCRA Part B Permit -Ret/Pack Fac to DEQ		01MAR12*
3LH1631	Support DEQ Request for Information-Ret/Pack Fac	01MAR12	30SEP13
3LH1621	Incorporate Final Design in Part B Ret/Pack Fac	02JAN13*	03FEB14
3LH1941	DEQ Approval of RCRA Part B Ret/Pack Fac		30JUN14
Pre-Conceptual Design Studies			
Alternate Treatment			
3LCADJ29	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
3LH845	Mockup Handling for Three Alternatives	01OCT03	30SEP04
3LH850	Cold Bench Test Three Alternatives	01OCT03	30SEP04



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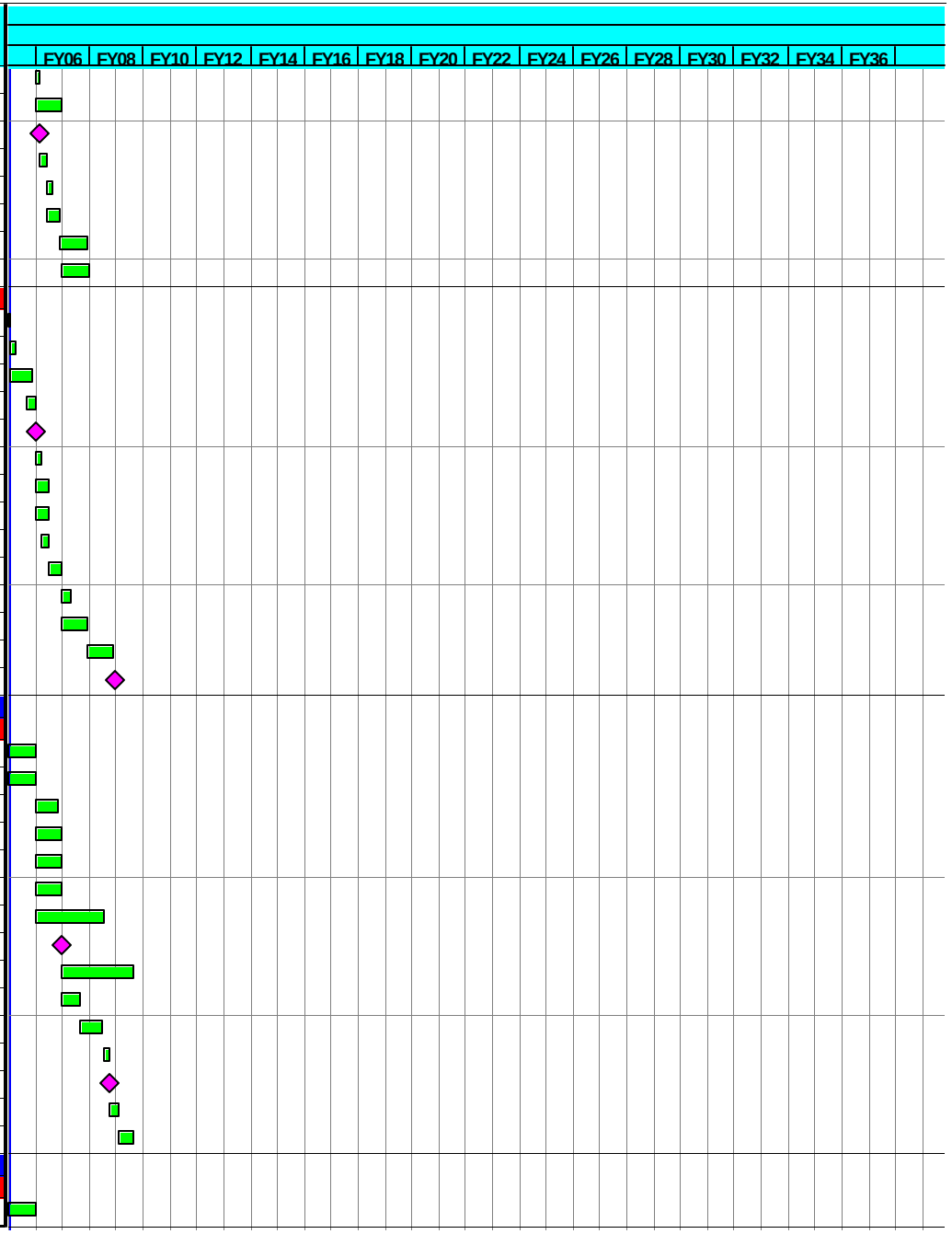
Lifecycle Baseline

Activity ID	Activity Description	Early Start	Early Finish
3LH851	Prepare Stabilization Feasibility Study Report	01OCT04	02DEC04
3LCADJ30	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
3LH855	Select One Preferred Stabilization Alternative		02DEC04
3LH865	Develop Treatment Specific TFRs for Stab Process	03DEC04	03MAR05
3LH872	Prepare Feasibility Study Report	04MAR05	02JUN05
3LH870	Develop RFP for Cold Pilot Plant Design	04MAR05	01SEP05
3LH875	Design Cold Pilot Plant	02SEP05	01SEP06
3LCADJ31	FY06Contingency Adjustment (+75% FY05)	01OCT05*	30SEP06
Remote Characterization			
3LH1350	Award Contract to Key Character Monitors	01OCT03	03NOV03
3LH1380	Select Tools & Characterization Monitors for Dem	04NOV03	13JAN04
3LH1360	Vendor Demo of Tools and Characterization Monito	04NOV03	31AUG04
3LH1390	Update DQO and T&FRS Annually	01JUN04*	30SEP04
3LH1391	Define Technology Development Needs		30SEP04
3LH1410	Issue RFP/I for Full-Scale Char. Monitor Systems	01OCT04	23DEC04
3LH1400	Hot Bench Tests on Key Char. Monitors	01OCT04	30MAR05
3LH1490	Analyze Hot Bench Test Results	01OCT04	30MAR05
3LH1420	Implement RFP/I Process & Award Subcontract	03JAN05	30MAR05
3LH1430	Vendor Generate Detailed Designs for Full-Scale	31MAR05	29SEP05
3LH1450	Issue Test Plans for Hot Verification Studies	30SEP05	07FEB06
3LH1440	Vendor Fabricate & Deliver Full Scale Characteri	30SEP05	29AUG06
3LH1460	Conduct Hot Verification Tests on Key Char. Moni	30AUG06	30AUG07
3LH1451	Complete a Sample Ret. & Char Demonstration		28SEP07*
Retrieval			
Retrieval			
3LCADJ32	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
3LH1120	Design and Construct Mockups	01OCT03	30SEP04
3LH1124	Operate Cold Demo	01OCT04*	29JUL05
3LCADJ33	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
3LH1122	Conceptual Design- Hot Demo	01OCT04	30SEP05
3LH1142	Prepare Construction Cert.	01OCT04	30SEP05
3LH1132	Ops Readiness Procedures, SAR, ORR, Permits, Rev	01OCT04	30APR07
3LH1126	Submit Construction Certification/Submit Class 2		30SEP05
3LCADJ34	FY06 To FY08 Contingency Adjustment (+75% FY05)	01OCT05*	30MAY08
3LH1128	RFP Construction of Hot Demo	03OCT05	31MAY06
3LH1130	Construct Hot Demo	01JUN06	30MAR07
3LH1134	DOE Review	01MAY07	29JUN07
3LH1144	DOE Approval		29JUN07
3LH1136	Operate Hot Demo	02JUL07	29OCT07
3LH1138	Clean-up and remove hot demo equipment	30OCT07	30MAY08
Yucca Mountain Waste Acceptance			
Canister Development			
3LCADJ35	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04



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Lifecycle Baseline

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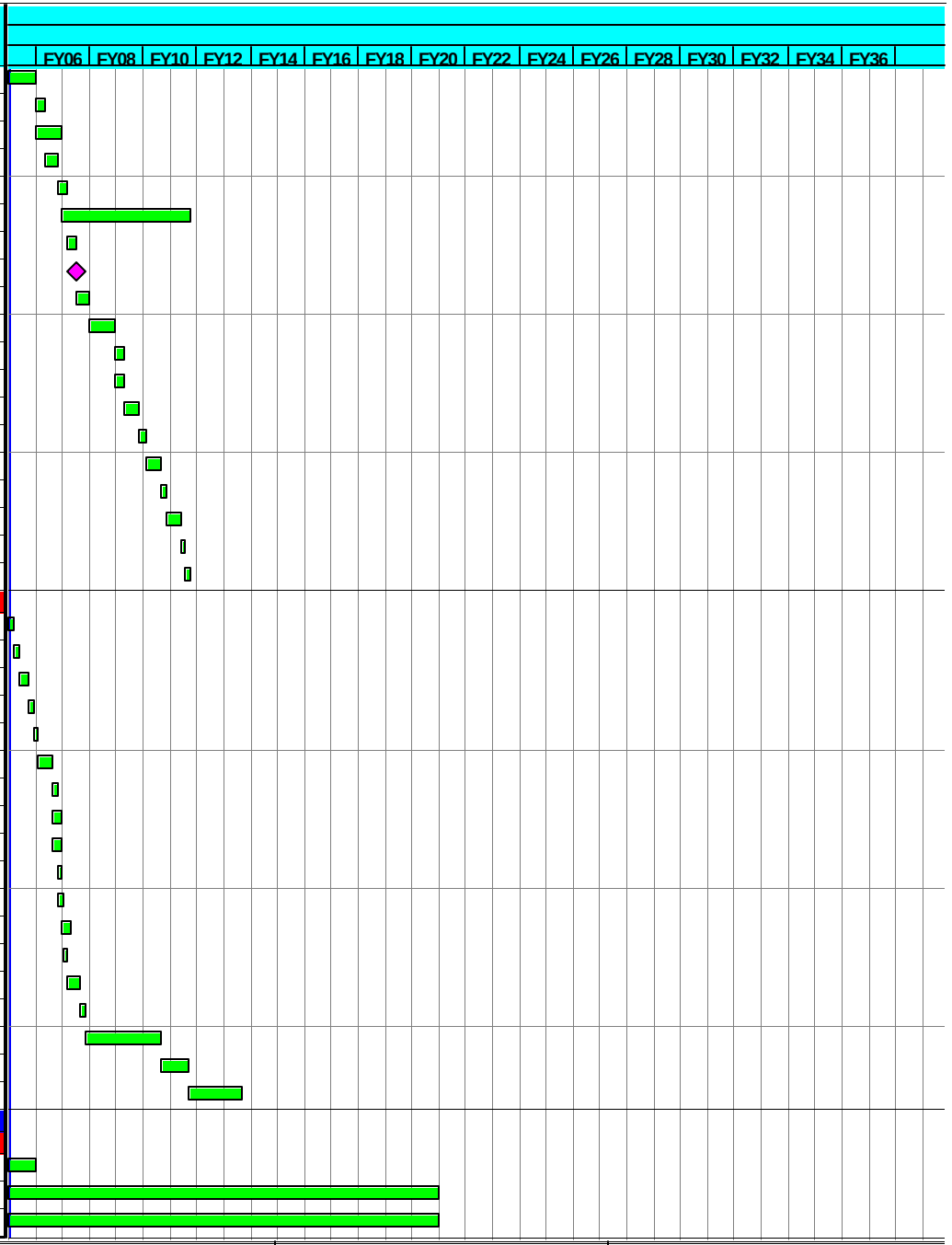
Activity ID	Activity Description	Early Start	Early Finish
3LH960	PreTest Prep & Test Spec Fab	01OCT03	30SEP04
3LH970	Prelim Testing at SNL	01OCT04	31JAN05
3LCADJ36	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
3LH980	Post Test Evals	01FEB05	29JUL05
3LH990	Design Mods	01AUG05	30NOV05
3LCADJ37	FY06 to FY10 Contingency Adjustment (+75% FY05)	01OCT05*	29JUN10
3LH1000	90% EDF	01DEC05	31MAR06
3LH950	Decision to Continue w/ Super Can		31MAR06
3LH1010	Pre-Test Prep	03APR06	29SEP06
3LH1020	Canister Fab and Loading	02OCT06	28SEP07
3LH1021	Final Thermo Analysis	01OCT07	31JAN08
3LH1030	Drop Testing at SNL	01OCT07	31JAN08
3LH1040	Elevated Temp Mat Effects	01FEB08	30JUL08
3LH1050	Analytical Comparison	31JUL08	25NOV08
3LH1060	Final Design Analysis & Testing EDF	26NOV08	28MAY09
3LH1070	Prelim HLW Can Design	29MAY09	28AUG09
3LH1080	RFP for Can Fab	31AUG09	25FEB10
3LH1090	Evaluation of Bids	26FEB10	29APR10
3LH1100	Initial Interaction	30APR10	29JUN10
Modeling- TSPA			
3LH1220	Update Data for TSPA - LA (DD)	01OCT03	15DEC03
3LH1230	Get TSPA - LA	16DEC03	04MAR04
3LH1240	GeoChemistry Evaluation (DD)	05MAR04	13JUL04
3LH1250	Mod TSPA - LA	14JUL04	20SEP04
3LH1260	Analyze Nominal Case w/TSPA-LA (DD)	21SEP04	05NOV04
3LH1270	Sensitivity Analysis TSPA-LA (DD)	08NOV04	16MAY05
3LH1280	Provide DD Data to RW	17MAY05	29JUL05
3LH1285	Geochemistry Evaluation (AT)	17MAY05	22SEP05
3LH1370	Conduct FEP's Eval & Process	17MAY05	22SEP05
3LH1283	Modify TSPA-LA (AT)	01AUG05	05OCT05
3LH1284	Update Data for TSPA-LA (AT)	01AUG05	12OCT05
3LH1580	Include FEP's in Analysis Model Reports	23SEP05	01FEB06
3LH1287	Analyze Nominal Case w/TSPA-LA (AT)	13OCT05	01DEC05
3LH1289	Sensitivity Analysis TSPA-LA (AT)	02DEC05	24MAY06
3LH1291	Provide to RW (AT)	25MAY06	23AUG06
3LH1290	Support RW TSPA Activities	24AUG06	09JUN09
3LH1970	Support License Amendment	10JUN09	09JUN10
3LH1980	Support NRC RAI	10JUN10	08JUN12
Calcine Engineering Support			
Calcine Engineering Support			
3LCADJ38	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
3LH1880	Project Engineering	01OCT03	30SEP19
3LH1890	Risk Management	01OCT03	30SEP19



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Activity ID	Activity Description	Early Start	Early Finish
3LH1510	Operations Interface	01OCT03	30SEP30
3LH1520	Yucca Mountain Data Interface	01OCT03	30SEP30
3LH1530	Yucca Mountain Liaison	01OCT03	30SEP30
3LH1550	Regulatory Coordination	01OCT03	30SEP30
3LH1560	Quality Assurance	01OCT03	30SEP30
3LH1600	Data Management	01OCT03	30SEP30
3LCADJ39	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
3LCADJ40	FY15 to FY30 Contingency Adjustment (+75% FY05)	01OCT14*	30SEP30
3LH1803	Transition to DD&D Interface	01APR22*	30SEP30
Design			
Conceptual Design			
3LH1690	Commence Conc. Design - Treat, Retrieve, & Packa	01OCT07*	
3LH1700	Ana/Ret/Pack Facility Conceptual Design	01OCT07*	30SEP09
Title I Design			
3LH1961	Ana/Ret/Pack Facility Design (Title I)	01OCT09	30SEP11
Title II Design			
3LH1991	Ana/Ret/Pack Facility Final Design (Title II)	03OCT11	24DEC13
3LH1951	DOE Approval to Commence Construction		29AUG14
Construction			
Construction			
3LH1962	Long Lead Procurements	01JUL14	30JUN16
3LH1960	Ana/Ret/Pack Facility Construction	02SEP14	31MAR20
3LH1750	Complete Construction		31MAR20
Facility Acceptance & Turnover			
3LH2001	Ana/Ret/Pack Facility Acceptance Testing	01APR20	31MAR22
3LH1860	Final Ana/Ret/Pack Facility Turnover		31MAR22
Operations-Retrieval-Packaging-Shipping-Closure			
Retrieval & Packaging			
3LH1701	Commence Operations	01APR22*	
3LH1702	Retrieve Bin Set #6	01APR22*	01DEC23
3LH1990	Analytical Lab Facility Operations	01APR22	30SEP30
3LH1721	Retrieve Bin Set #3	04DEC23	07FEB25
3LH1807	Cleaning Bin Walls & Piping Pre-D&D	04DEC23	30SEP30
3LH1741	Retrieve Bin Set #2	10FEB25	02APR26
3LH1761	Retrieve Bin Set #1	03APR26	07DEC27
3LH1781	Retrieve Bin Set #4	08DEC27	05FEB29
3LH1801	Retrieve Bin Set #5	06FEB29	29MAR30
3LH1805	Complete Operations		30SEP30*
Shipping			
3LH1711	Canister Fab. for Bin Set Calcine	01OCT20*	30SEP22

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Subproject Breakout by Control Account

WBS[5]		WBS[6]		Sep-04	Sep-05	Sep-06	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016
A.1.01.00.03 CPP-SP3 SNF and Calcine Disposition																
	BURDENED BASE															
		A.1.01.00.03.00 SP-3 Project Management	BCWS	1,078	1,079	1,091	1,091	1,100	1,095	1,095	1,100	1,091	1,095	1,095	1,098	1,102
		A.1.01.00.03.01 Nuclear Materials Engineering & Disposition P.M.	BCWS	2,117	2,109	2,101	2,101	2,117	2,109	2,109	2,204	0	0	0	0	0
		A.1.01.00.03.02 CPP-SP3 SNFDSP M&O Support	BCWS	174	174	200	7,528	7,955	7,923	8,611	8,547	9,140	9,378	8,223	8,223	8,256
		A.1.01.00.03.03 CPP-SP3 SNF Disposition Data	BCWS	0	919	1,079	1,079	1,088	1,084	1,084	1,088	1,079	1,084	1,084	1,094	1,098
		A.1.01.00.03.04 CPP-SP3 DOE-ID Managed SNF Activities	BCWS	44,889	6,050	10,652	11,008	16,315	10,750	15,747	15,810	14,937	14,997	14,997	14,997	15,057
		A.1.01.00.03.05 CPP-SP3 Treatment of Spent Nuclear Fuel	BCWS	0	0	86	86	87	87	87	87	27,864	27,976	27,976	27,976	28,088
		A.1.01.00.03.06 CPP-SP3 Technology Direction & Integration	BCWS	0	1,777	2,109	2,109	2,126	2,118	2,118	2,126	2,109	2,118	2,118	2,148	2,157
		A.1.01.00.03.07 CPP-SP3 FSV Transferred Fuel	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.03.08 CPP-SP3 CPP-749 Fuel Transfers	BCWS	333	337	362	362	365	364	364	365	362	364	364	371	372
		A.1.01.00.03.09 CPP-SP3 CPP-1774 Fuel Transfers to SNFDSP	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.03.0A CPP-SP3 SNFDSP Facility Activities	BCWS	1,223	1,305	1,547	1,547	21,145	21,145	5,249	9,450	9,375	9,413	9,413	9,454	9,492
		A.1.01.00.03.0B CPP-SP3 Repository Analysis	BCWS	3,218	3,345	3,747	3,747	2,508	2,498	2,498	0	0	0	0	0	0
		A.1.01.00.03.0C CPP-SP3 Transportation & Packaging	BCWS	2,547	1,339	554	554	559	556	77	0	0	0	0	0	0
		A.1.01.00.03.0D CPP-SP3 Materials & Technology	BCWS	663	143	164	164	166	165	165	0	0	0	0	0	0
		A.1.01.00.03.0E CPP-SP3 Quality Assurance	BCWS	998	696	804	804	980	976	976	980	0	0	0	0	0
		A.1.01.00.03.0F CPP-SP3 IFSF Transferred Fuel	BCWS	0	3,852	4,211	4,211	4,245	21	264	21	869	873	873	873	876
		A.1.01.00.03.0H SNF Project Management (SNF-102/103)	BCWS	377	375	374	374	377	375	375	377	374	375	375	375	377
		A.1.01.00.03.0I Calcine Disposition Project Management	BCWS	1,125	1,133	1,167	1,167	1,176	1,172	1,172	1,176	1,167	1,172	1,032	1,038	1,042
		A.1.01.00.03.10 Regulatory	BCWS	1,195	1,338	1,892	754	275	218	451	453	1,075	257	44	0	0
		A.1.01.00.03.11 Pre-Conceptual Design Studies	BCWS	1,662	1,291	3,147	984	0	0	0	0	0	0	0	0	0
		A.1.01.00.03.12 Retrieval	BCWS	1,943	7,868	6,773	10,175	1,442	0	0	0	0	0	0	0	0
		A.1.01.00.03.13 Yucca Mountain Waste Acceptance	BCWS	904	1,342	790	3,433	2,275	1,141	798	408	278	0	0	0	0
		A.1.01.00.03.15 Calcine Engineering Support	BCWS	809	817	865	900	907	994	1,054	1,058	1,095	1,104	1,124	1,210	1,215
		A.1.01.00.03.16 Design	BCWS	0	0	0	0	24,130	24,034	14,532	14,590	14,632	14,691	3,467	0	0
		A.1.01.00.03.17 Construction	BCWS	0	0	0	0	0	0	0	0	0	0	11,699	85,177	73,434
		A.1.01.00.03.18 Operations-Retrieval-Packaging-Shipping-Closure	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0
	Results... Totals:		**BCWS**	**65,254**	**37,289**	**43,716**	**54,179**	**91,338**	**78,824**	**58,826**	**59,841**	**85,448**	**84,897**	**83,884**	**154,034**	**142,566**
	ESCALATE															
		A.1.01.00.03.00 SP-3 Project Management	BCWS	35	58	83	107	133	158	185	212	238	267	296	325	357
		A.1.01.00.03.01 Nuclear Materials Engineering & Disposition P.M.	BCWS	63	109	155	202	252	300	351	422	0	0	0	0	0
		A.1.01.00.03.02 CPP-SP3 SNFDSP M&O Support	BCWS	6	9	13	711	930	1,113	1,410	1,609	1,950	2,238	2,185	2,403	2,637
		A.1.01.00.03.03 CPP-SP3 SNF Disposition Data	BCWS	0	48	78	103	128	153	179	207	232	261	289	321	352
		A.1.01.00.03.04 CPP-SP3 DOE-ID Managed SNF Activities	BCWS	943	257	685	954	1,786	1,428	2,466	2,860	3,073	3,464	3,853	4,247	4,671
		A.1.01.00.03.05 CPP-SP3 Treatment of Spent Nuclear Fuel	BCWS	0	0	6	7	10	12	14	16	18	20	22	25	27
		A.1.01.00.03.06 CPP-SP3 Technology Direction & Integration	BCWS	0	92	153	200	250	299	350	403	453	509	564	629	690
		A.1.01.00.03.07 CPP-SP3 FSV Transferred Fuel	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.03.08 CPP-SP3 CPP-749 Fuel Transfers	BCWS	14	18	27	35	44	52	61	70	79	88	98	109	120
		A.1.01.00.03.09 CPP-SP3 CPP-1774 Fuel Transfers to SNFDSP	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.03.0A CPP-SP3 SNFDSP Facility Activities	BCWS	39	69	114	148	2,370	2,863	881	1,802	2,022	2,271	2,516	2,778	3,047

Thousands of $

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Subproject Breakout by Control Account

WBS[5]		WBS[6]		Sep-04	Sep-05	Sep-06	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016
A.1.01.00.03 CPP-SP3 SNF and Calcine Disposition																
		A.1.01.00.03.0B CPP-SP3 Repository Analysis	BCWS	86	166	265	349	293	350	410	0	0	0	0	0	0
		A.1.01.00.03.0C CPP-SP3 Transportation & Packaging	BCWS	76	67	40	53	66	79	13	0	0	0	0	0	0
		A.1.01.00.03.0D CPP-SP3 Materials & Technology	BCWS	18	7	12	16	19	23	27	0	0	0	0	0	0
		A.1.01.00.03.0E CPP-SP3 Quality Assurance	BCWS	31	36	59	76	114	137	160	185	0	0	0	0	0
		A.1.01.00.03.0F CPP-SP3 IFSF Transferred Fuel	BCWS	0	201	309	402	503	3	44	4	188	211	234	257	282
		A.1.01.00.03.0H SNF Project Management (SNF-102/103)	BCWS	12	20	28	37	46	54	63	73	82	92	101	111	122
		A.1.01.00.03.0I Calcine Disposition Project Management	BCWS	34	58	85	112	139	166	195	224	251	282	275	304	334
		A.1.01.00.03.10 Regulatory	BCWS	29	79	126	68	30	34	76	87	223	63	11	0	0
		A.1.01.00.03.11 Pre-Conceptual Design Studies	BCWS	45	60	209	90	0	0	0	0	0	0	0	0	0
		A.1.01.00.03.12 Retrieval	BCWS	41	388	447	908	160	0	0	0	0	0	0	0	0
		A.1.01.00.03.13 Yucca Mountain Waste Acceptance	BCWS	28	69	57	310	257	158	128	75	58	0	0	0	0
		A.1.01.00.03.15 Calcine Engineering Support	BCWS	26	44	65	88	109	143	177	204	238	269	303	358	393
		A.1.01.00.03.16 Design	BCWS	0	0	0	0	2,782	3,334	2,313	2,678	3,049	3,434	891	0	0
		A.1.01.00.03.17 Construction	BCWS	0	0	0	0	0	0	0	0	0	0	3,019	24,205	22,863
		A.1.01.00.03.18 Operations-Retrieval-Packaging-Shipping-Closure	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0
	Results... Totals:		**BCWS**	**1,524**	**1,855**	**3,015**	**4,974**	**10,422**	**10,860**	**9,502**	**11,132**	**12,153**	**13,468**	**14,657**	**36,073**	**35,894**
	SUMMARY (Base + Escalation)															
		A.1.01.00.03.00 SP-3 Project Management	BCWS	1,113	1,137	1,174	1,198	1,233	1,254	1,280	1,312	1,329	1,362	1,391	1,423	1,459
		A.1.01.00.03.01 Nuclear Materials Engineering & Disposition P.M.	BCWS	2,181	2,218	2,255	2,302	2,369	2,409	2,460	2,627	0	0	0	0	0
		A.1.01.00.03.02 CPP-SP3 SNFDSP M&O Support	BCWS	180	183	213	8,238	8,885	9,036	10,021	10,156	11,089	11,616	10,408	10,626	10,893
		A.1.01.00.03.03 CPP-SP3 SNF Disposition Data	BCWS	0	967	1,158	1,182	1,216	1,237	1,263	1,295	1,311	1,344	1,373	1,415	1,450
		A.1.01.00.03.04 CPP-SP3 DOE-ID Managed SNF Activities	BCWS	45,831	6,306	11,337	11,962	18,101	12,177	18,213	18,670	18,010	18,461	18,850	19,244	19,728
		A.1.01.00.03.05 CPP-SP3 Treatment of Spent Nuclear Fuel	BCWS	0	0	92	94	97	98	100	103	27,882	27,996	27,998	28,000	28,115
		A.1.01.00.03.06 CPP-SP3 Technology Direction & Integration	BCWS	0	1,870	2,262	2,309	2,376	2,417	2,467	2,529	2,562	2,626	2,681	2,777	2,847
		A.1.01.00.03.07 CPP-SP3 FSV Transferred Fuel	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.03.08 CPP-SP3 CPP-749 Fuel Transfers	BCWS	347	354	389	397	409	416	425	435	441	452	462	480	492
		A.1.01.00.03.09 CPP-SP3 CPP-1774 Fuel Transfers to SNFDSP	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.03.0A CPP-SP3 SNFDSP Facility Activities	BCWS	1,262	1,375	1,661	1,695	23,515	24,009	6,130	11,253	11,397	11,684	11,929	12,232	12,539
		A.1.01.00.03.0B CPP-SP3 Repository Analysis	BCWS	3,304	3,511	4,012	4,096	2,800	2,848	2,907	0	0	0	0	0	0
		A.1.01.00.03.0C CPP-SP3 Transportation & Packaging	BCWS	2,623	1,406	594	607	625	635	89	0	0	0	0	0	0
		A.1.01.00.03.0D CPP-SP3 Materials & Technology	BCWS	681	150	176	180	185	188	192	0	0	0	0	0	0
		A.1.01.00.03.0E CPP-SP3 Quality Assurance	BCWS	1,029	732	862	880	1,095	1,113	1,136	1,165	0	0	0	0	0
		A.1.01.00.03.0F CPP-SP3 IFSF Transferred Fuel	BCWS	0	4,052	4,520	4,614	4,748	24	308	25	1,058	1,084	1,107	1,130	1,159
		A.1.01.00.03.0H SNF Project Management (SNF-102/103)	BCWS	389	395	402	410	422	429	438	449	455	467	476	486	499
		A.1.01.00.03.0I Calcine Disposition Project Management	BCWS	1,158	1,192	1,253	1,279	1,316	1,338	1,366	1,401	1,419	1,454	1,308	1,342	1,376
		A.1.01.00.03.10 Regulatory	BCWS	1,224	1,417	2,018	822	305	252	527	540	1,298	320	56	0	0
		A.1.01.00.03.11 Pre-Conceptual Design Studies	BCWS	1,707	1,352	3,356	1,075	0	0	0	0	0	0	0	0	0
		A.1.01.00.03.12 Retrieval	BCWS	1,984	8,256	7,220	11,083	1,602	0	0	0	0	0	0	0	0
		A.1.01.00.03.13 Yucca Mountain Waste Acceptance	BCWS	932	1,411	848	3,743	2,533	1,299	926	483	336	0	0	0	0
		A.1.01.00.03.15 Calcine Engineering Support	BCWS	835	861	930	988	1,016	1,137	1,231	1,262	1,334	1,373	1,427	1,568	1,608
		A.1.01.00.03.16 Design	BCWS	0	0	0	0	26,912	27,368	16,845	17,268	17,682	18,125	4,358	0	0
		A.1.01.00.03.17 Construction	BCWS	0	0	0	0	0	0	0	0	0	0	14,718	109,382	96,297
		A.1.01.00.03.18 Operations-Retrieval-Packaging-Shipping-Closure	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0
	Results... Totals:		**BCWS**	**66,779**	**39,144**	**46,731**	**59,153**	**101,760**	**89,683**	**68,328**	**70,973**	**97,601**	**98,365**	**98,541**	**190,107**	**178,460**

Thousands of $

INTEC Completion

Subproject Breakout by Control Account

WBS[5]		WBS[6]		FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	Cumulative
A.1.01.00.03 CPP-SP3 SNF and Calcine Disposition																		
	BURDENED BASE																	
		A.1.01.00.03.00 SP-3 Project Management	BCWS	1,093	1,093	1,098	1,102	1,102	1,102	1,093	1,098	1,098	1,098	1,098	1,102	1,093	1,098	29,580
		A.1.01.00.03.01 Nuclear Materials Engineering & Disposition P.M.	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,967
		A.1.01.00.03.02 CPP-SP3 SNFDSP M&O Support	BCWS	10,339	10,339	10,381	10,422	8,256	11,937	11,842	8,223	8,223	8,223	8,223	8,256	8,190	8,223	215,403
		A.1.01.00.03.03 CPP-SP3 SNF Disposition Data	BCWS	1,090	1,090	1,094	1,098	1,098	1,098	1,090	1,094	1,094	1,094	1,094	1,098	1,090	1,094	28,177
		A.1.01.00.03.04 CPP-SP3 DOE-ID Managed SNF Activities	BCWS	14,937	14,937	14,997	15,057	15,057	15,057	14,937	14,997	14,997	14,997	14,997	15,057	14,937	14,997	416,164
		A.1.01.00.03.05 CPP-SP3 Treatment of Spent Nuclear Fuel	BCWS	27,864	27,864	0	0	0	0	0	0	0	0	0	0	0	0	196,128
		A.1.01.00.03.06 CPP-SP3 Technology Direction & Integration	BCWS	2,140	2,140	2,148	2,157	2,157	2,157	2,140	2,148	2,148	0	0	0	0	0	44,469
		A.1.01.00.03.07 CPP-SP3 FSV Transferred Fuel	BCWS	0	0	1,889	1,897	1,897	1,897	0	0	0	0	0	0	0	0	7,579
		A.1.01.00.03.08 CPP-SP3 CPP-749 Fuel Transfers	BCWS	369	369	0	0	0	0	0	0	0	0	0	0	0	0	5,424
		A.1.01.00.03.09 CPP-SP3 CPP-1774 Fuel Transfers to SNFDSP	BCWS	0	0	0	0	0	0	0	2,474	2,474	2,474	2,474	2,484	0	0	12,380
		A.1.01.00.03.0A CPP-SP3 SNFDSP Facility Activities	BCWS	9,416	9,416	9,454	9,492	9,492	9,491	9,415	9,453	9,453	9,453	9,453	9,491	4,147	0	227,386
		A.1.01.00.03.0B CPP-SP3 Repository Analysis	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21,560
		A.1.01.00.03.0C CPP-SP3 Transportation & Packaging	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,186
		A.1.01.00.03.0D CPP-SP3 Materials & Technology	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,630
		A.1.01.00.03.0E CPP-SP3 Quality Assurance	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,214
		A.1.01.00.03.0F CPP-SP3 IFSF Transferred Fuel	BCWS	869	869	21	21	203	205	0	0	0	0	0	0	0	0	23,380
		A.1.01.00.03.0H SNF Project Management (SNF-102/103)	BCWS	374	374	375	377	377	377	374	375	375	375	375	377	374	375	10,128
		A.1.01.00.03.0I Calcine Disposition Project Management	BCWS	1,034	895	898	867	834	834	828	831	831	831	831	834	828	831	26,747
		A.1.01.00.03.10 Regulatory	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,954
		A.1.01.00.03.11 Pre-Conceptual Design Studies	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,084
		A.1.01.00.03.12 Retrieval	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28,201
		A.1.01.00.03.13 Yucca Mountain Waste Acceptance	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11,370
		A.1.01.00.03.15 Calcine Engineering Support	BCWS	1,255	1,305	1,311	1,186	1,206	1,287	1,394	1,399	1,460	1,550	1,550	1,592	1,594	1,600	32,842
		A.1.01.00.03.16 Design	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110,075
		A.1.01.00.03.17 Construction	BCWS	62,864	62,864	63,116	35,648	13,516	4,416	0	0	0	0	0	0	0	0	412,734
		A.1.01.00.03.18 Operations-Retrieval-Packaging-Shipping-Closure	BCWS	0	0	0	0	30,303	29,478	25,603	30,960	32,051	32,051	32,051	32,179	31,923	19,974	296,574
	Results... Totals:		**BCWS**	**133,644**	**133,555**	**106,782**	**79,324**	**85,498**	**79,336**	**68,715**	**73,052**	**74,204**	**72,146**	**72,146**	**72,470**	**64,175**	**48,192**	**2,203,336**
	ESCALATE																	
		A.1.01.00.03.00 SP-3 Project Management	BCWS	384	415	449	483	517	550	581	618	654	691	729	770	803	846	10,942
		A.1.01.00.03.01 Nuclear Materials Engineering & Disposition P.M.	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,854
		A.1.01.00.03.02 CPP-SP3 SNFDSP M&O Support	BCWS	3,569	3,861	4,176	4,500	3,830	5,866	6,191	4,589	4,858	5,133	5,413	5,722	5,968	6,291	87,182
		A.1.01.00.03.03 CPP-SP3 SNF Disposition Data	BCWS	379	410	443	477	510	544	574	611	647	684	721	762	795	838	10,747
		A.1.01.00.03.04 CPP-SP3 DOE-ID Managed SNF Activities	BCWS	5,044	5,464	5,916	6,381	6,831	7,291	7,699	8,206	8,694	9,190	9,699	10,258	10,704	11,288	143,352
		A.1.01.00.03.05 CPP-SP3 Treatment of Spent Nuclear Fuel	BCWS	29	32	0	0	0	0	0	0	0	0	0	0	0	0	236
		A.1.01.00.03.06 CPP-SP3 Technology Direction & Integration	BCWS	744	804	869	937	1,002	1,068	1,127	1,200	1,270	0	0	0	0	0	13,610
		A.1.01.00.03.07 CPP-SP3 FSV Transferred Fuel	BCWS	0	0	762	821	878	936	0	0	0	0	0	0	0	0	3,397
		A.1.01.00.03.08 CPP-SP3 CPP-749 Fuel Transfers	BCWS	129	140	0	0	0	0	0	0	0	0	0	0	0	0	1,083
		A.1.01.00.03.09 CPP-SP3 CPP-1774 Fuel Transfers to SNFDSP	BCWS	0	0	0	0	0	0	0	1,383	1,464	1,547	1,631	1,724	0	0	7,748
		A.1.01.00.03.0A CPP-SP3 SNFDSP Facility Activities	BCWS	3,284	3,551	3,839	4,134	4,421	4,712	4,970	5,293	5,603	5,919	6,242	6,598	3,018	0	82,506

INTEC Completion

Subproject Breakout by Control Account

WBS[5]		WBS[6]		FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	Cumulative
A.1.01.00.03 CPP-SP3 SNF and Calcine Disposition																		
		A.1.01.00.03.0B CPP-SP3 Repository Analysis	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,918
		A.1.01.00.03.0C CPP-SP3 Transportation & Packaging	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	393
		A.1.01.00.03.0D CPP-SP3 Materials & Technology	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122
		A.1.01.00.03.0E CPP-SP3 Quality Assurance	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	799
		A.1.01.00.03.0F CPP-SP3 IFSF Transferred Fuel	BCWS	304	329	8	9	94	102	0	0	0	0	0	0	0	0	3,484
		A.1.01.00.03.0H SNF Project Management (SNF-102/103)	BCWS	131	142	153	165	177	188	198	211	224	236	249	263	274	289	3,743
		A.1.01.00.03.0I Calcine Disposition Project Management	BCWS	360	336	364	376	388	413	436	465	492	520	548	579	604	637	8,979
		A.1.01.00.03.10 Regulatory	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	826
		A.1.01.00.03.11 Pre-Conceptual Design Studies	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	404
		A.1.01.00.03.12 Retrieval	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,943
		A.1.01.00.03.13 Yucca Mountain Waste Acceptance	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,140
		A.1.01.00.03.15 Calcine Engineering Support	BCWS	441	495	535	519	565	644	740	788	870	975	1,028	1,112	1,170	1,233	13,534
		A.1.01.00.03.16 Design	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18,481
		A.1.01.00.03.17 Construction	BCWS	21,314	23,083	24,989	15,226	6,310	2,138	0	0	0	0	0	0	0	0	143,146
		A.1.01.00.03.18 Operations-Retrieval-Packaging-Shipping-Closure	BCWS	0	0	0	0	13,748	14,600	13,520	17,298	18,953	20,020	21,108	22,314	23,280	15,092	179,934
	Results... Totals:		**BCWS**	**36,113**	**39,062**	**42,504**	**34,028**	**39,270**	**39,053**	**36,035**	**40,663**	**43,729**	**44,915**	**47,369**	**50,102**	**46,617**	**36,514**	**741,504**
	SUMMARY (Base + Escalation)																	
		A.1.01.00.03.00 SP-3 Project Management	BCWS	1,478	1,509	1,547	1,585	1,619	1,653	1,674	1,716	1,752	1,789	1,826	1,872	1,896	1,944	40,523
		A.1.01.00.03.01 Nuclear Materials Engineering & Disposition P.M.	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18,821
		A.1.01.00.03.02 CPP-SP3 SNFDSP M&O Support	BCWS	13,908	14,200	14,557	14,922	12,086	17,804	18,033	12,812	13,081	13,355	13,636	13,978	14,158	14,513	302,585
		A.1.01.00.03.03 CPP-SP3 SNF Disposition Data	BCWS	1,469	1,500	1,537	1,576	1,609	1,643	1,664	1,705	1,741	1,778	1,815	1,861	1,885	1,932	38,924
		A.1.01.00.03.04 CPP-SP3 DOE-ID Managed SNF Activities	BCWS	19,981	20,401	20,914	21,438	21,889	22,348	22,636	23,204	23,691	24,187	24,696	25,316	25,641	26,285	559,517
		A.1.01.00.03.05 CPP-SP3 Treatment of Spent Nuclear Fuel	BCWS	27,893	27,896	0	0	0	0	0	0	0	0	0	0	0	0	196,364
		A.1.01.00.03.06 CPP-SP3 Technology Direction & Integration	BCWS	2,883	2,944	3,018	3,094	3,159	3,225	3,266	3,348	3,419	0	0	0	0	0	58,079
		A.1.01.00.03.07 CPP-SP3 FSV Transferred Fuel	BCWS	0	0	2,651	2,718	2,775	2,833	0	0	0	0	0	0	0	0	10,976
		A.1.01.00.03.08 CPP-SP3 CPP-749 Fuel Transfers	BCWS	498	509	0	0	0	0	0	0	0	0	0	0	0	0	6,507
		A.1.01.00.03.09 CPP-SP3 CPP-1774 Fuel Transfers to SNFDSP	BCWS	0	0	0	0	0	0	0	3,857	3,938	4,021	4,105	4,208	0	0	20,128
		A.1.01.00.03.0A CPP-SP3 SNFDSP Facility Activities	BCWS	12,701	12,967	13,293	13,626	13,913	14,203	14,386	14,746	15,056	15,372	15,695	16,089	7,165	0	309,892
		A.1.01.00.03.0B CPP-SP3 Repository Analysis	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23,478
		A.1.01.00.03.0C CPP-SP3 Transportation & Packaging	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,579
		A.1.01.00.03.0D CPP-SP3 Materials & Technology	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,752
		A.1.01.00.03.0E CPP-SP3 Quality Assurance	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,013
		A.1.01.00.03.0F CPP-SP3 IFSF Transferred Fuel	BCWS	1,174	1,198	29	30	298	306	0	0	0	0	0	0	0	0	26,864
		A.1.01.00.03.0H SNF Project Management (SNF-102/103)	BCWS	505	516	529	542	553	565	572	586	599	611	624	640	648	664	13,871
		A.1.01.00.03.0I Calcine Disposition Project Management	BCWS	1,394	1,231	1,262	1,243	1,222	1,248	1,264	1,296	1,323	1,351	1,379	1,414	1,432	1,468	35,725
		A.1.01.00.03.10 Regulatory	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,780
		A.1.01.00.03.11 Pre-Conceptual Design Studies	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,489
		A.1.01.00.03.12 Retrieval	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30,144
		A.1.01.00.03.13 Yucca Mountain Waste Acceptance	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12,510
		A.1.01.00.03.15 Calcine Engineering Support	BCWS	1,696	1,801	1,846	1,705	1,771	1,931	2,134	2,187	2,329	2,526	2,579	2,703	2,764	2,833	46,376
		A.1.01.00.03.16 Design	BCWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128,557
		A.1.01.00.03.17 Construction	BCWS	84,178	85,946	88,105	50,874	19,826	6,554	0	0	0	0	0	0	0	0	555,879
		A.1.01.00.03.18 Operations-Retrieval-Packaging-Shipping-Closure	BCWS	0	0	0	0	44,051	44,078	39,123	48,258	51,004	52,071	53,159	54,493	55,203	35,066	476,508
	Results... Totals:		**BCWS**	**169,758**	**172,617**	**149,286**	**113,352**	**124,769**	**118,389**	**104,751**	**113,715**	**117,933**	**117,061**	**119,515**	**122,572**	**110,792**	**84,706**	**2,944,840**

SUBPROJECT PLAN

WBS: A.1.01.00.04
Title: INTEC-SP4 Project – SBW to WIPP

Subproject Mgr:	**Gary Milnarich**	**Planning & Controls:**	**David Perkola**
DOE-ID:		**ES&H Field Manager:**	**Corrinne Jones**
INTEC Manager:	**Richard Loos**	**Other:**	

1. WORK DESCRIPTION:

The Idaho Nuclear Technology and Engineering Center (INTEC)-SP4 Subproject – Sodium Bearing Waste (SBW) Treatment Facility Project will provide the facilities, at INTEC, to treat the liquid SBW to forms suitable for permanent disposal. These new facilities are necessary to satisfy the Idaho Settlement Agreement which requires DOE to treat/remove the sodium bearing and newly generated waste stored in the existing INTEC Tank Farm Facility by the end of 2012. These facilities will support the implementation of the Environmental Impact Statement Record of Decision.

The work scope involves the evaluation of several technology alternatives that will be developed through Conceptual Design. One alternative will be selected for Preliminary and Final Design, with construction and plant operations appropriately following.

SBW Background

From 1952 to 1991, DOE and its predecessor agencies reprocessed spent nuclear reactor fuel at the Idaho Chemical Processing Plant, located on the Snake River Plain in southeast Idaho. This facility, now known as INTEC, is part of the Idaho National Engineering and Environmental Laboratory (INEEL).

Processing operations at INTEC utilized solvent extraction systems to extract uranium-235 and other defense-related materials from spent nuclear reactor fuel and, in the process, generated high-level waste as well as other wastes. By definition, high-level waste is a product of the first extraction cycle of the reprocessing operation. Subsequent extraction cycles and follow-up decontamination activities produced additional liquid wastes that are assumed not to be high-level waste. This waste is best characterized as mixed transuranic waste.

Since the decontamination solutions contain high levels of sodium, this waste is referred to as SBW. At INTEC, all of these liquid wastes are stored in eleven 300,000-gallon underground tanks. Over several years, much of the liquid waste was fed to a treatment facility and converted to a dry granular substance called calcine. The calcine, which is stored in bin sets, is a more stable waste form, posing less environmental risk than storing liquid radioactive waste in underground tanks.

Since reprocessing was discontinued in 1992, liquid high-level waste is no longer being produced. However, SBW continues to be generated from continued plant operations, maintenance decontamination activities, facility decontamination and decommissioning, and other activities. In 1998, DOE completed calcining all remaining liquid high-level waste. The remaining liquid and associated solids (approximately 1.1M gallons) left in the underground tanks are SBW.

The Performance Management Plan was signed in July of 2002. The Critical Decision (CD)-0 documents were complete in July 2002 for the independent project review; revised, and formally submitted in September 2002. CD-0 approval was scheduled for October 2002.

The Life-Cycle Baseline schedule is based on “stretch” assumptions to achieve the ten-year schedule for completion in 2012. The original assumption while developing the Life-Cycle Baseline schedule was that CD-0 would be approved by December 31, 2002. After that date was not met, a new date of March 31, 2003, was planned into the schedule. This new date has pushed the Life-Cycle Baseline to finish April 2013. The Life-Cycle Baseline has been updated to reflect a December 2012 completion by adding additional “stretch” assumptions. As the actual date for CD-0 still is undetermined the schedule will need to be adjusted with new assumptions that will be required to meet the 2012 date after CD-0 is approved.

MAJOR PRODUCTS AND DELIVERABLES:

- Complete Final Selection of SBW Treatment Technology
- Conceptual, Preliminary, and Final Designs

- Complete SBW Treatment Facility
- Treated Liquid SBW ready for shipment to final storage facility (Waste Isolation Pilot Plant [WIPP])
- Tank Farm tanks emptied and ready to turnover to Tank Farm Closure Project.

2. ESTIMATE DEVELOPMENT BASIS:

The estimate was developed by the cost estimating discipline using a variety of methods to calculate the cost of each individual activity. The method of estimating individual activities included bottoms up, parametric, specific analogy, and expert opinion techniques in conjunction with historical information gathered from major INEEL projects over the past two decades.

The contingency was developed using an accepted statistical, Monte Carlo-type simulation method.

3. ASSUMPTIONS:

Critical assumptions:

Note: To meet the ten-year schedule requirement, the following assumptions are required (based on current knowledge, the probability of achieving some of these assumptions is very low).

- Planning basis assumes the MACT Upgrade to the Calciner as the treatment option.
- No delay caused by lawsuits or stakeholder intervention.
- All Critical Decisions will be approved within one month after submittal.
- The Calciner will operate continuously without interruption for the entire time required to process SBW.
- DOE will give Bechtel BWXT Idaho, LLC (BBWI) authorization to start Architectural Engineering services selection activities nine months prior to Preliminary and/or Final Design.
- The Architectural Engineering firm will specify and procure all critical equipment and materials.
- The construction phase will be less than 36 months.
- Upgrades to the Calciner unit will require less than 250 man-rem of exposure and will generate less than 100,000 gallons of decontamination waste.
- The State of Idaho Department of Environmental Quality will approve the Resource Conservation and Recover Act (RCRA) and Air permits within 18 months after submittal.
- The DOE Readiness Review, Final Documented Safety Analysis, Operational Readiness Review and approval for start-up will be completed within seven months after mechanical completion of construction.
- Operation of the Calciner can continue during the review and approval of the Trial Burn results. An operations shut down will not be required.
- The Waste Incidental to Reprocessing Determination will allow the SBW (liquids and solids) to be managed/disposed as transuranic waste.
- The Waste Incidental to Reprocessing will be determined two months prior to CD-1 approval and will allow the Calciner treatment alternative to ship the waste to WIPP.
- Interim storage will be limited to the essential capacity needed to facilitate package acceptance inspections (documentation verification) prior to shipment (three months maximum surge capacity).
- Completed waste packages will not be sampled for compliance with the WIPP Waste Acceptance Criteria (head-space sampling will therefore, not be required).
- Waste acceptance will be verified by process control methods and acceptable knowledge/process knowledge.

- The Calciner can be upgraded to operate and process the SBW in 22 months.
- Funding will be in place and sufficient to execute the project as planned without interruptions.
- Partial CD-3 (CD-1/3) approval to purchase critical equipment and material will be given one month after CD-1 submittal.
- Partial CD-3 (CD-2/3) approval to start field work will be granted at approximately 40% of Title II (Final) Design.
- The Calciner unit within the New Waste Calcining Facility (NWCF) can be permitted to RCRA regulations including the off-gas emission control units and the product packaging facility. Existing equivalencies such as lack of double containment on some pipes will be covered under a RCRA Part B permit.
- The calcine waste form and its package will be qualified to meet WIPP waste acceptance criteria.
- The Calciner will be able to process the expected concentration of solids without major modifications to the Calciner process.

Engineering

- CD-1 will select a single technology alternative.
- Preliminary and Final Design will be performed by the same Architectural Engineering firm under the contractual and technical direction of BBWI.
- The Architectural Engineer will transfer equipment they have purchased to the construction subcontractors and will ensure proper installation and start-up of this equipment.
- The waste packaging facility will be a new facility and will be located east of the NWCF near the bin sets.
- The SBW calcine packaging and load-out facility will have remote mechanical systems to handle the remote-handled transuranic waste packages.
- The calcine will be packaged in canisters, which are compatible with 72-B shipping casks.
- The MACT facility will be a new facility and will be located just west of NWCF.
- The MACT facility will require only low-level radiation/contamination control features.
- No upgrades are required to the NWCF high-efficiency particulate air filter system, but the MACT Compliance Facility will be designed to meet the required radiation safety standards.
- The existing main NWCF stack will be used.
- Current utility capacities at INTEC are adequate to support the project.
- There are no unique security requirements or needs for protection of special nuclear materials.
- The facilities will be considered Hazards Category 2, and Performance Category 2.
- The facilities will be safety significant for items related to confinement of nuclear materials and all other items will be consumer grade.
- There is no safety class equipment.
- Sulfur impregnated carbon-bed filters will be used for mercury removal from the off-gas.
- A multi-stage combustor will be used to eliminate the visible NO_2 plume.

Construction

- BBWI will perform construction management services and all construction subcontracts will be direct to BBWI as outlined in the acquisition strategy document.

- New warehouse space will be constructed by the project to support construction.
- A load-out facility for newly generated liquid waste (NGLW), consisting of a 10,000 sq. ft pad and two valves, will be constructed by the SBW Project. This is the only NGLW facility installation included.

Permitting

- Major modifications to the existing structure will not be required to meet RCRA Part B permit requirements (such as secondary containment, life-safety, seismic).
- The RCRA permit will be developed during the conceptual design phase and will be modified no more than one-time during the Final Design phase.
- The MACT standards as currently proposed by the Environmental Protection Agency are assumed.
- Nuclear Regulatory Commission regulations do not apply to the SBW Treatment Project.
- Toxic Substance Control Act regulations do not apply to the SBW Treatment Project.
- Double needle sampling system will be allowed.

Waste Classification

- The Environmental Impact Statement Record of Decision will be issued prior to CD-1 and will allow operation of the Calciner (after required upgrades to meet RCRA and Air/MACT standards) and disposal of the SBW as transuranic waste.
- NGLW can be mixed with SBW for treatment.
- NGLW can be stored in existing tanks without a Waste Incidental to Reprocessing determination.
- Secondary waste streams will be treated and disposed with SBW.

WIPP Qualification

- Transportation equipment will be available for waste package take away as the packages are produced.
- WIPP will have the capabilities and permits to handle the levels of radiation doses from the SBW calcine packages both with regards to remote operations, and capacity for disposal.
- U-134 waste codes are not an issue for disposal of the SBW at WIPP.
- All SBW material processed between start of operations and WIPP approval to ship SBW material will meet WIPP standards and will not require additional testing or certification.

Process

- The volume of SBW and NGLW to be processed is approximately 1.1 million gallons (approximately 1 to 2% of which is solids).
- The SBW calcine will be directly packaged into the waste package canisters (no additional stabilization is required).
- Off-gas scrub solutions will be dried and packaged with the calcine and not require a separate grouting system.
- Tanks containing the SBW feed will be mixed to a fairly homogenous state (same basic solids concentration) and fed directly to the Calciner.
- The solids characteristics are similar and behave in a similar manner to the solids sampled in Tanks WM-182 and WM-183.
- Solids can be uniformly distributed (reasonably) throughout the waste packages to prevent excess radiation doses from any single package.

- All inventories of NGLW will be processed with the SBW up to 60,000 gallons, after which an outside subcontractor will process the NGLW.

Other Assumptions

- RCRA closure of the facility after operations is not included.
- Pick-up and transportation of the SBW waste packages (included transportation equipment) and loading into the disposal site at New Mexico is excluded from this planning.
- Preliminary Design can proceed without interruption after Conceptual Design.
- Final Design can proceed without interruption after Preliminary Design.
- WIPP can accept the SBW shipments at a rate to meet or exceed the scheduled completion date of Dec. 2012.

4. SCIENCE AND TECHNOLOGY NEEDS

Science and Technology Need Number	Science and Technology Need Description
1	Validation of Mass Balance Assumptions
2	Validation of Process Configuration
3	Validation of Equipment Performance

INEEL

EM Project

INTEC Completion

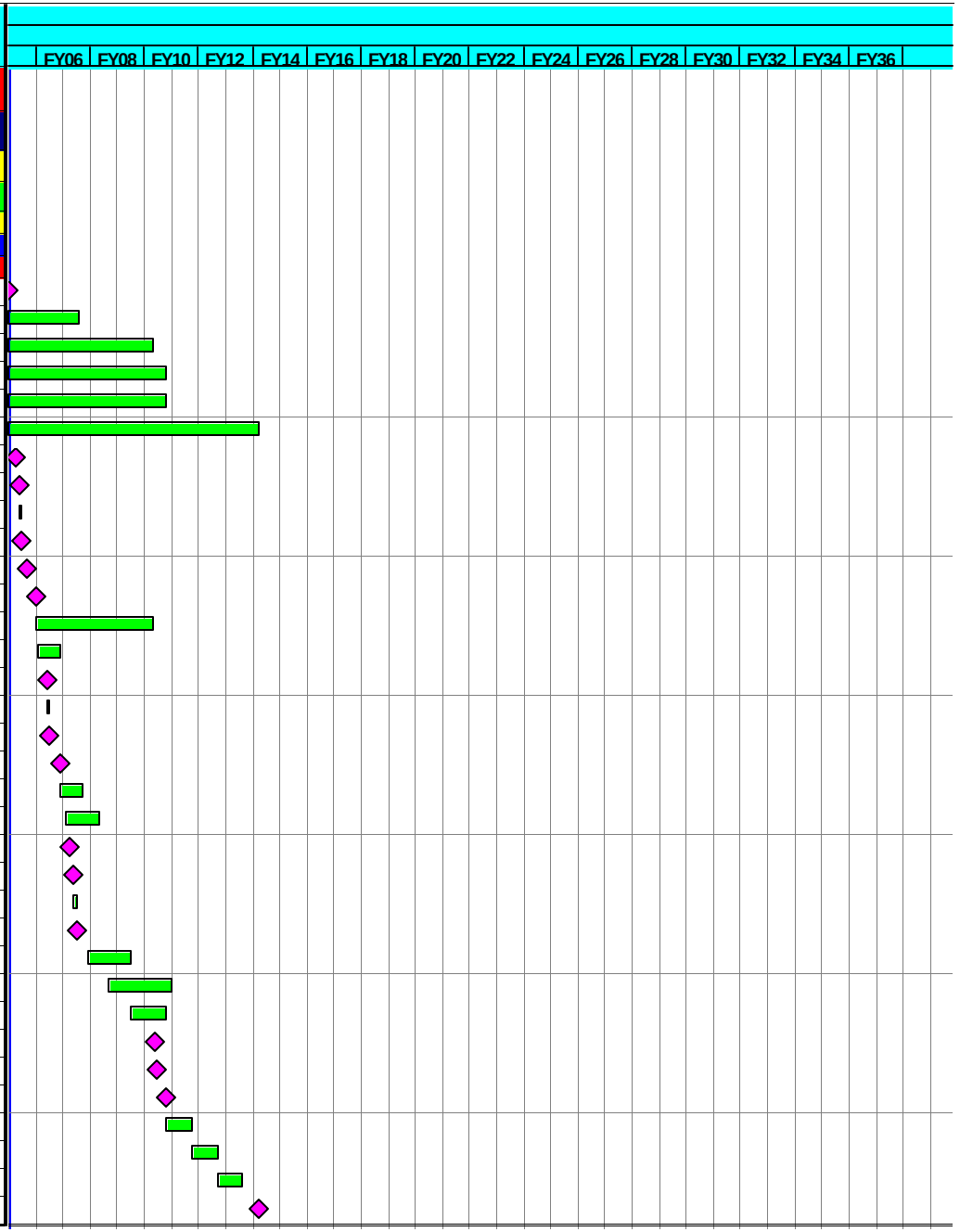
INTEC Completion

CPP-SP4 SBW to WIPP

SBW Project Management

####### SBW Project Management - LC

Activity ID	Activity Description	Early Start	Early Finish
4L00000	Start - SBW	01OCT03	
4L06005	EPC Contingency Resource Part 1	01OCT03	25APR06
4L06000	EPC Contingency Hammock	01OCT03	20JAN09
4L01000	Project Management	01OCT03	17JUL09
4L01300	Project Management - NGLW Loadout Facility	01OCT03	17JUL09
4L06100	Risk	01OCT03	24DEC12
4L00415G	Gov. Approval of Design & Build GFSI-4.1.5		31DEC03*
4L00010	CD-1Submitted		27FEB04
4L01101	CD-1DOE-HQ Approval of CD-1	01MAR04	31MAR04
4L00011	CD-1 Approved		31MAR04
4L00414G	Off-site Dispoal & SBW Shipping Sched GFSI-4.1.4		01JUN04*
4L00012	CD-1/3 Approval - Critical Equpment & Materials		04OCT04
4L06105	Multi-Options Contingency - DOE	04OCT04*	30JAN09
4L06015	EPC Contingency Resource Part 2	11NOV04	31AUG05
4L00020	CD-2 Submitted		28FEB05
4L01111	DOE-HQ Approval of CD-2	01MAR05	31MAR05
4L00021	CD-2 Approved		31MAR05
4L00025	CD-2/3 Approval to Start Construction		25AUG05
4L06025	EPC Contingency Resource Part 3	01SEP05	21JUN06
4L06035	EPC Contingency Resource Part 4	11NOV05	31JAN07
4L00413	Start Construction of SBW Facility by Dec 2005		31DEC05*
4L00030	CD-3 Submitted		28FEB06
4L01141	DOE-HQ Approval of CD-3	01MAR06	31MAR06
4L00035	CD-3 Approved		31MAR06
4L06045	EPC Contingency Resource Part 5	01SEP06	10APR08
4L06055	EPC Contingency Resource Part 6	22JUN07	30SEP09
4L06065	Operations Contingency Resource Part 1	08APR08	28JUL09
4L00413G	WIPP ready to Receive SBW deliveries GFSI-4.1.3		02MAR09*
4L00414	Complete Construction & Readiness Review SBW		17MAR09
4L00045	CD-4 Approved		17JUL09
4L06075	Operations Contingency Resource Part 2	29JUL09	02JUL10
4L06085	Operations Contingency Resource Part 3	06JUL10	15JUN11
4L06095	Operations Contingency Resource Part 4	16JUN11	15MAY12
4L00415	Complete SBW & Ship Offiste by Dec 2012		30DEC12



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Early Bar
Progress Bar
Critical Activity

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SBW to WIPP

Lifecycle Baseline

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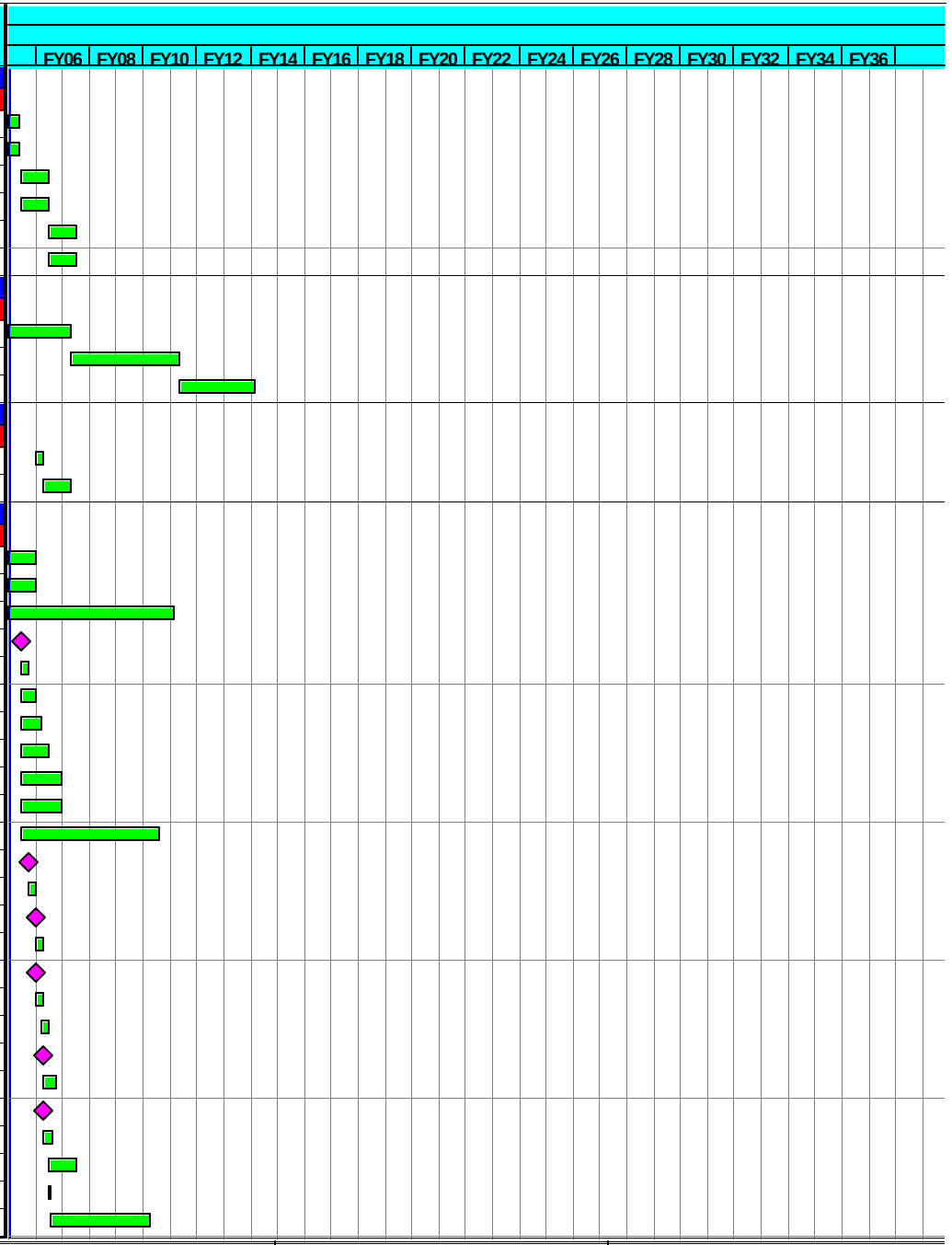
Activity ID	Activity Description	Early Start	Early Finish
SBW Engineering & Design			
SBW Engineering & Design - LC			
4L01100	Conceptural Designs (4 Options)	01OCT03	27FEB04
4L01310	Conceptual Design - NGLW Loadout Facility	01OCT03	27FEB04
4L01110	Preliminary Design - Calcine MACT Option	01APR04	31MAR05
4L01320	Preliminary Design - NGLW Loadout Facility	01APR04	31MAR05
4L01140	Final Design - Calcine MACT Option	01APR05	31MAR06
4L01330	Final Design - NGLW Loadout Facility	01APR05	31MAR06
SBW Technology Development			
SBW Technology Development - LC			
4L01010	SBW Applied Technology - Down Select	01OCT03	03FEB06
4L01020	SBW Applied Technology Support	06FEB06	04FEB10
4L01030	SBW Applied Tech/Analytical Operations Support	05FEB10	07DEC12
SBW Procurement			
SBW Procurement - LC			
4L01120	RFP - Award Critical Equipment & Materials	05OCT04	13JAN05
4L01125	Delivery - Critical Equipment & Materials	14JAN05	27JAN06
SBW Permitting - ES&HQA			
SBW Permitting - ES&HQA - LC			
4L05020	WIPP - SBWT Analytical Procedures	01OCT03	29SEP04
4L05030	WIPP - SBWT Sampling Procedures	01OCT03	29SEP04
4L05000	Waste Certification Approval - WIPP	01OCT03	20NOV09
4L00200	SBW RCRA - Submit Draft Permit App to DEQ		31MAR04
4L03010	SBW Air Permit - Prepare PTC Permit App.	01APR04	01JUL04
4L02010	SBW RCRA - DEQ Review of Draft Permit App.	01APR04	04OCT04
4L04010	PDSA - Preliminary Documented Safety Analysis	01APR04	03JAN05
4L05010	WIPP - SBWT Acceptable Knowledge	01APR04	31MAR05
4L02000	SBW RCRA Permit	01APR04	20SEP05
4L03000	SBW Air Permit	01APR04	20SEP05
4L04000	SBW Documented Safety Analysis Report	01APR04	12MAY09
4L00300	SBW Air Permit - Complete PSD PTC Application		01JUL04
4L03020	SBW Air Permit- INEEL Review of Draft PTC Permit	02JUL04	27SEP04
4L00310	SBW Air Permit - Submit Draft Permit App to DEQ		27SEP04
4L03030	SBW Air Permit - DEQ Review ot PTC Application	28SEP04	06JAN05
4L00210	SBW RCRA - DEQ Submits Comments to INEEL		04OCT04
4L02020	SBW RCRA - INEEL Incorporates DEQ Comments	05OCT04	13JAN05
4L04020	DOE-ID Review & Approval of PDSA	04JAN05	04APR05
4L00320	SBW Air Permit - DEQ Comments to INEEL		06JAN05
4L03040	SBW Air Permit - DEQ Perpares Draft PTC Permit	07JAN05	11JUL05
4L00230	SBW RCRA - Revised Permit Application to DEQ		13JAN05
4L02030	SBW RCRA - DEQ Prepares Draft Part B Permit	14JAN05	26MAY05
4L05040	WIPP - SBWT Waste Stream Profiles	01APR05	31MAR06
4L04021	DOE-ID SSRP Review & Approval of PDSA	05APR05	02MAY05
4L04025	PDSA Maintenance & Updates	03MAY05	09JAN09



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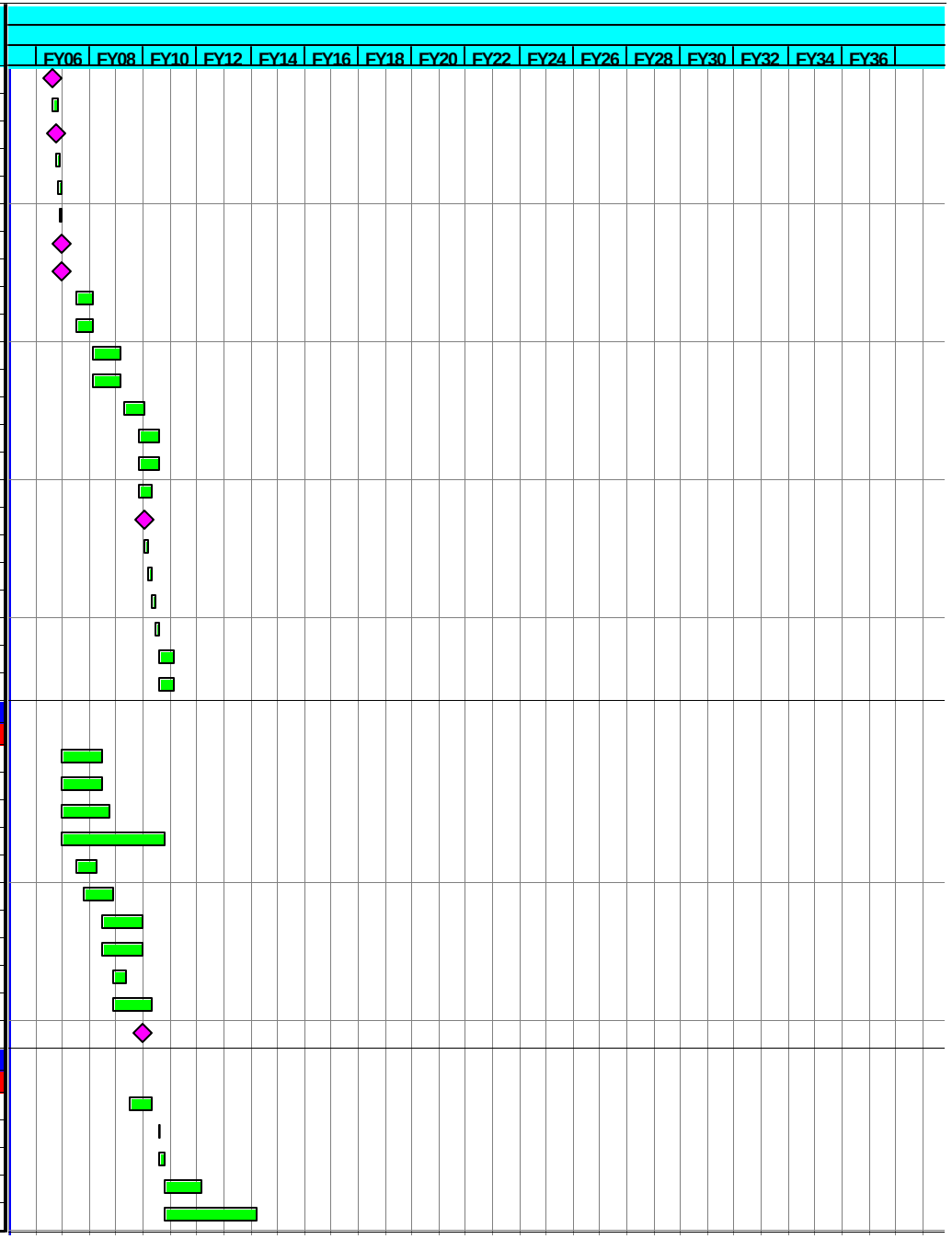
Activity ID	Activity Description	Early Start	Early Finish
4L00240	SBW RCRA - DEQ Completes Draft Part B Permit		26MAY05
4L02040	SBW RCRA - Public Comment Period	27MAY05	25JUL05
4L00330	SBW Air Permit - DEQ Completes Draft Part B		11JUL05
4L03050	SBW Air Permit - Public Comment Period	12JUL05	22AUG05
4L02050	SBW RCRA - DEQ Prepares RCRA Part B Permit	26JUL05	20SEP05
4L03060	SBW Air Permit - DEQ Perpares PTC Permit	23AUG05	20SEP05
4L00250	SBW RCRA - DEQ Issue RCRA Part B Permit		20SEP05
4L00340	SBW Air Permit - DEQ Issues PSD PTC		20SEP05
4L05050	WIPP - SBWT TRUCON Codes	03APR06	22NOV06
4L05060	WIPP - SBWT Trans. SAR Addendum	03APR06	22NOV06
4L05070	WIPP - SBWT QAPJP	27NOV06	26NOV07
4L05080	WIPP - SBWT RH & CH TRAMPAC	27NOV06	26NOV07
4L04030	FDSA -Final Documented Safety Analysis	22JAN08	23OCT08
4L05090	WIPP - SBWT QAPJP - Final	14AUG08	19MAY09
4L05100	WIPP - SBWT RH & CH TRAMPAC - Final	14AUG08	19MAY09
4L04060	SBW Prepare for ORR	21AUG08	20JAN09
4L00220	BBWI Approval of FDSA		23OCT08
4L04040	FDSA – DOE-ID Review and Approval FDSA	24OCT08	15DEC08
4L04045	FDSA – DOE-ID SSRP Review and Approval FDSA	16DEC08	20JAN09
4L04065	SBW Operational RR & Acceptance Report	21JAN09	17MAR09
4L04070	SBW ORR Approval	18MAR09	12MAY09
4L05110	WIPP - SBWT CBFO Audit / Approval	20MAY09	20NOV09
4L05120	WIPP - SBWT EPA Audit / Approval	20MAY09	20NOV09
SBW Construction			
SBW Construction - LC			
4L01410	Construction - Calcine Packaging Facilty -PART1	21SEP05	26MAR07
4L01420	Construction - MACT PART1	21SEP05	26MAR07
4L01450	NWCF Upgrades Non-Hot Work	21SEP05*	26JUN07
4L01400	Construction Management - Calcine MACT Option	21SEP05	17JUL09
4L01480	NWCF Decon	03APR06	02JAN07
4L01470	NWCF Upgrades - Hot Work	02AUG06	15AUG07
4L01415	Construction - Calcine Packaging Facilty PART2	27MAR07	18SEP08
4L01425	Construction - MACT PART2	27MAR07	18SEP08
4L01440	Construct NGLW Loadout Facility	07SEP07	13FEB08
4L01430	Construction Management - NGLW Loadout Facility	07SEP07	20JAN09
4L00040	Construction - Mechanical Complete		18SEP08
SBW Operations			
SBW Operations - LC			
4L01500	SBW Facility Acceptance	08APR08	20JAN09
4L01505	SBW Facility Start-up	13MAY09	19MAY09
4L01510	Hot Start-up & Test Run	20MAY09	18JUL09
4L01540	Ops. Run Calciner Run 1	19JUL09	08DEC10
4L01520	SBW Operations - Hammock	20JUL09	24DEC12



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SBW to WIPP

Lifecycle Baseline

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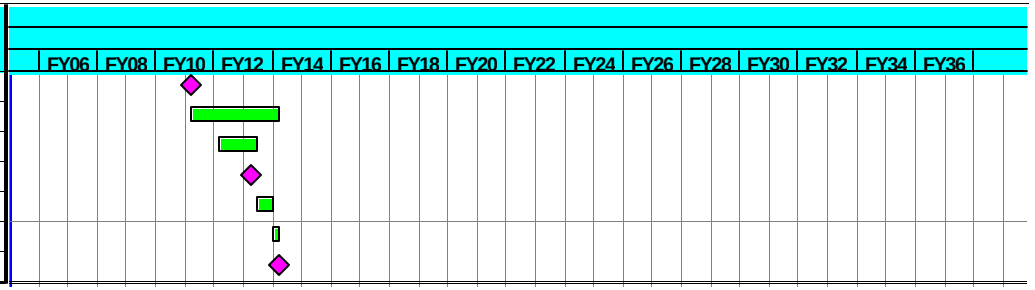
Activity ID	Activity Description	Early Start	Early Finish
4L00050	Start Shipping Canisters to WIPP		18DEC09
4L01590	Packaging, Load Out & Shipping SBW to WIPP	20DEC09	30DEC12
4L01580	Ops. Run Calciner Run 2	04DEC10	17MAR12
4L00055	Start Storing NGLW		03JAN12*
4L01581	Calciner - Shutdown Waiting for Last NGLW	18MAR12	16OCT12
4L01585	Ops. Last Run of Calciner	17OCT12	15DEC12
4L00090	SP-6 Handoff		30DEC12



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SBW to WIPP

Lifecycle Baseline

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INTEC Completion

Subproject Breakout by Control Account

WBS[5]		WBS[6]		Sep-04	Sep-05	Sep-06	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Cumulative
A.1.01.00.04 CPP-SP4 SBW to WIPP														
	BURDENED BASE													
		A.1.01.00.04.01 SBW Project Management	BCWS	12,300	37,642	45,263	30,159	32,849	23,650	18,762	18,756	11,821	0	231,202
		A.1.01.00.04.02 SBW Engineering & Design	BCWS	11,877	18,420	3,387	0	0	0	0	0	0	0	33,685
		A.1.01.00.04.03 SBW Technology Development	BCWS	2,496	2,486	1,161	515	519	517	571	600	595	115	9,574
		A.1.01.00.04.06 SBW Procurement	BCWS	0	21,254	0	0	0	0	0	0	0	0	21,254
		A.1.01.00.04.07 SBW Permitting - ES&H\QA	BCWS	3,039	5,172	1,894	1,894	1,909	1,423	101	0	0	0	15,432
		A.1.01.00.04.08 SBW Construction	BCWS	0	555	22,394	38,828	20,936	2,074	0	0	0	0	84,788
		A.1.01.00.04.09 SBW Operations	BCWS	0	0	0	0	4,536	19,617	57,982	68,131	62,641	11,763	224,670
	Results... Totals:		**BCWS**	**29,712**	**85,530**	**74,100**	**71,396**	**60,750**	**47,282**	**77,416**	**87,487**	**75,057**	**11,878**	**620,606**
	ESCALATE													
		A.1.01.00.04.01 SBW Project Management	BCWS	300	1,639	2,954	2,658	3,641	3,167	2,938	3,393	2,432	0	23,122
		A.1.01.00.04.02 SBW Engineering & Design	BCWS	249	781	218	0	0	0	0	0	0	0	1,248
		A.1.01.00.04.03 SBW Technology Development	BCWS	77	130	80	50	62	74	96	115	129	27	838
		A.1.01.00.04.06 SBW Procurement	BCWS	0	901	0	0	0	0	0	0	0	0	901
		A.1.01.00.04.07 SBW Permitting - ES&H\QA	BCWS	121	276	142	185	230	199	16	0	0	0	1,168
		A.1.01.00.04.08 SBW Construction	BCWS	0	25	1,472	3,411	2,337	293	0	0	0	0	7,538
		A.1.01.00.04.09 SBW Operations	BCWS	0	0	0	0	590	2,849	9,499	12,848	13,322	2,717	41,826
	Results... Totals:		**BCWS**	**747**	**3,752**	**4,865**	**6,303**	**6,860**	**6,583**	**12,549**	**16,355**	**15,883**	**2,744**	**76,641**
	SUMMARY (Base + Escalation)													
		A.1.01.00.04.01 SBW Project Management	BCWS	12,600	39,281	48,217	32,817	36,491	26,817	21,700	22,149	14,252	0	254,324
		A.1.01.00.04.02 SBW Engineering & Design	BCWS	12,126	19,201	3,605	0	0	0	0	0	0	0	34,933
		A.1.01.00.04.03 SBW Technology Development	BCWS	2,573	2,616	1,240	564	581	591	667	715	724	141	10,413
		A.1.01.00.04.06 SBW Procurement	BCWS	0	22,155	0	0	0	0	0	0	0	0	22,155
		A.1.01.00.04.07 SBW Permitting - ES&H\QA	BCWS	3,159	5,448	2,036	2,079	2,139	1,622	117	0	0	0	16,601
		A.1.01.00.04.08 SBW Construction	BCWS	0	580	23,866	42,239	23,273	2,368	0	0	0	0	92,326
		A.1.01.00.04.09 SBW Operations	BCWS	0	0	0	0	5,127	22,466	67,481	80,979	75,963	14,480	266,496
	Results... Totals:		**BCWS**	**30,458**	**89,282**	**78,965**	**77,699**	**67,610**	**53,865**	**89,965**	**103,842**	**90,939**	**14,621**	**697,247**

Thousands of $

SUBPROJECT PLAN

WBS: A.1.01.00.05
Title: INTEC-SP5 Integrated Tank Farm Closure

Subproject Mgr:	**Diane Croson**	**Planning & Controls:**	**Sheila Mitro**
DOE-ID:	**Keith Lockie**	**ES&H Field Manager:**	**Corrinne Jones**
INTEC Manager:	**Richard Loos**	**Other:**	**Corrinne Jones**

1. WORK DESCRIPTION:

The scope of Idaho Nuclear Technology and Engineering Center (INTEC)-SP5, Integrated Tank Farm Closure Subproject, is to clean and close the waste storage tanks in the INTEC Tank Farm and to remediate the Tank Farm soils.

Tank Farm Closure:

The Tank Farm consists of eleven underground 300,000-gallon stainless steel tanks housed in concrete vaults, four underground 30,000-gallon stainless steel tanks, and all the associated piping and ancillary equipment. The eleven 300,000-gallon tanks are subject to "cease use" requirements of the Settlement Agreement because they do not meet Resource Conservation and Recovery Act (RCRA) requirements for secondary containment. Additionally, five of those tanks (WM-182, WM-183, WM-184, WM-185, and WM-186) do not meet seismic requirements due to the pillar and panel construction of the vaults. The four smaller tanks are subject to commitments made under the Voluntary Consent Order (VCO) and will be closed as part of this subproject. Various closure plans are needed to meet both RCRA and DOE Order 435.1, Radioactive Waste Management, requirements.

Seven of the 300,000-gallon tanks have been emptied to residual level and cleaning activities have been initiated for two of those tanks. As Newly Generated Liquid Waste (NGLW) is generated from continuing process operations and decontamination activities, it will be processed through the Evaporator Tank System and stored in the Tank Farm for future treatment. By DOE-ID directive, no additional NGLW can be added to the Tank Farm tanks after 2005. At that time, any NGLW will be collected in tanks WM-100, -101, and -102, which provide a total of about 52,000 gallons of storage capacity. The NGLW will be processed through the calciner with the Tank Farm inventory of sodium-bearing waste until about 2010 and then through a commercial treatment facility thereafter.

The tanks will be emptied as much as technically feasible with existing equipment. The tanks will then be washed using a combination of spray-ball and spray nozzle systems to clean the tank walls. Steam jets are then used to transfer the slurried residual to tank WM-187, which is being used as the wash water collection vessel. This process is repeated until tank residuals meet performance objectives, which is determined by sample analyses. Upon achieving acceptance criteria for cleaning, the tanks systems are closed by filling the tanks, vaults and piping systems with clean grout. Stabilizing the tank systems with grout prevents releases to the environment and ensures long-term performance of the closed tanks.

Tank Farm Closure also includes evaluation of corrosion coupons suspended in the tanks to measure the corrosive effects of the waste solutions. Evaluations are performed to predict the life expectancy of the tanks and to ensure their integrity while storing wastes. Corrosion coupon evaluation involves retrieving the coupons from the tanks, decontaminating the coupons to allow for safe handling during evaluation, and metallography analysis and reporting.

Soils Remediation:

The Waste Area Group (WAG) 3, Operable Unit (OU) 3-14, Remedial Investigation/Feasibility Study will conduct a remedial investigation to support risk management and remediation decisions about contamination within the INTEC Tank Farm fence line and contaminated groundwater beneath INTEC. The Tank Farm remediation will be coordinated with the Tank Farm RCRA tank closure actions, which will be completed by September 30, 2012. The remedial investigation will focus on the use of the presumptive remedy of capping/containment for the Tank Farm area that will meet Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) containment requirements for 1,000 years. Integration with the Tank Farm RCRA closure activities will allow "opportunity" sampling to anticipate the final investigation needs after RCRA closure is completed in 2012. Data from the RCRA tank system closure and all ancillary structures and pipes will be included in the evaluation of the source term for the entire Tank Farm. Investigation of the groundwater contamination beneath INTEC will

include installation of monitoring wells and interfacing with OU 3-13 Groups 4 and 5 to determine if a residual source of contamination exists that could be of risk in the future. The risk from contamination due to the former INTEC injection well, site CPP-23, and monitoring well United States Geological Survey-050 have not been determined.

2. MAJOR PRODUCTS AND DELIVERABLES:

- Complete Tank Farm closure by September 30, 2012.
- Complete Tank Farm soils remediation by September 30, 2020.

3. ESTIMATE DEVELOPMENT BASIS:

Tank Closure:

- Cost estimates are based on previous RCRA closures and a completed conceptual design.
- DOE closure plans are based on actual experience in development of closure plans for tanks WM-182 and WM-183.
- Samples and analyses are based on the actual cost incurred from sampling tanks WM-182 and WM–183.
- Cost estimates for conceptual design were developed by Bechtel BWXT Idaho, LLC (BBWI's) cost estimating group.
- The estimate basis for these activities is an extension of the detailed planning laid out in the Detailed Work Plan for FY 2003 and extended out through the life cycle with costs adjusted as appropriate to match logical scope adjustments in line with planning assumptions.

Soils Remediation:

The estimate was developed by using a bottoms-up estimate based on a variety of methods to calculate the cost of each individual activity. The method of calculating individual activities included crew based calculations and bottoms up estimates based on experience to date and actual costs, and in some cases, professional judgment was used. Environmental restoration cost estimating software was used for field restoration activities.

4. ASSUMPTIONS:

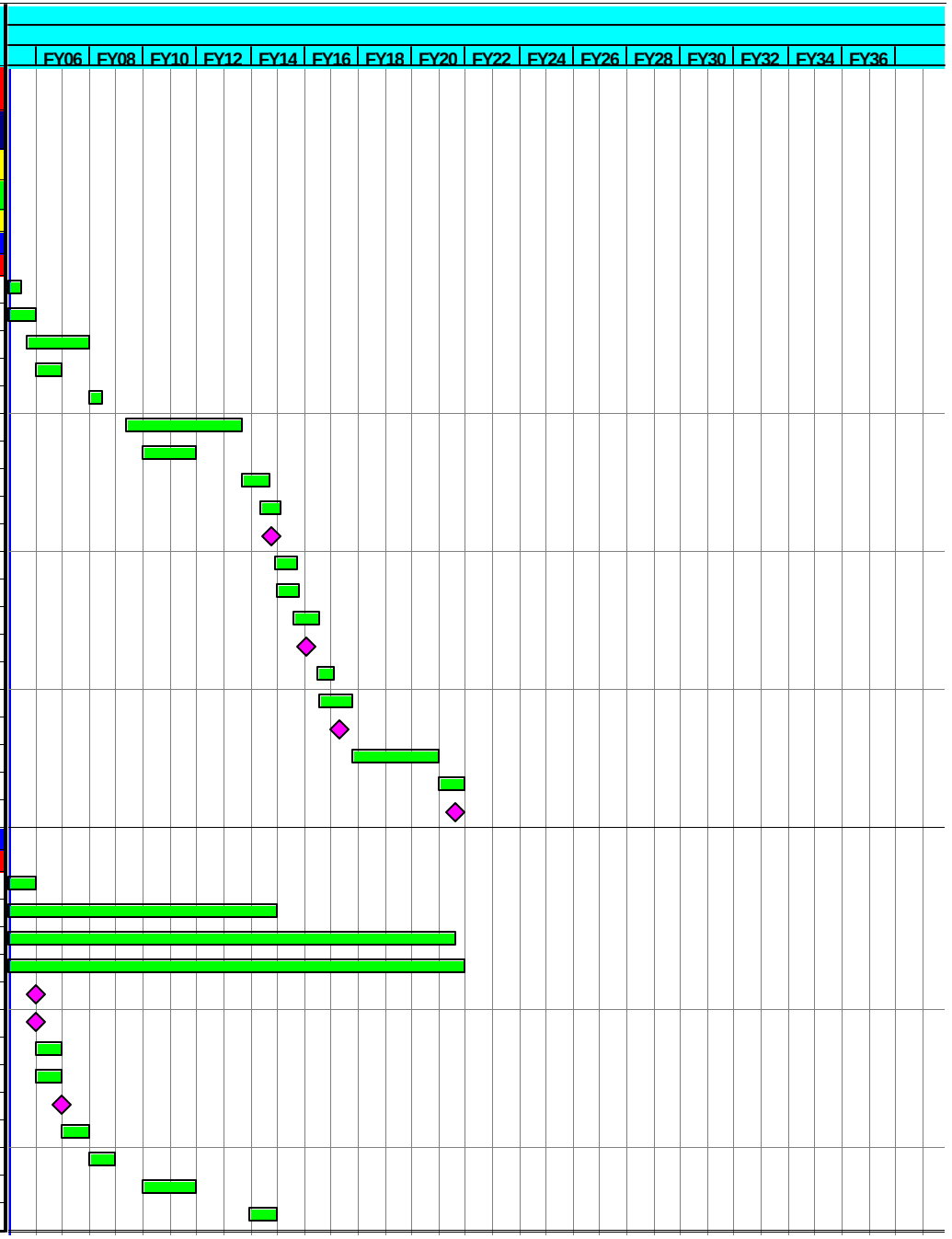
- Tank Farm VCO Tanks (i.e., Tanks WM-103, -104, -105, and -106) will be planned in SP5 as part of Tank Farm closure activities.
- Tank residuals will be pumped to the lowest level technically and economically possible with existing jets. Jets will be installed to lower residual level to below 1-inch.
- The remaining residuals will be solidified in place.
- The Waste Incidental to Reprocessing (WIR) determination will be approved to leave sodium bearing waste (SBW) residuals in place. The lawsuit will not impact WIR approvals nor the baseline schedule.
- Tanks will be emptied and flushed by Operations to meet the current project schedule.
- Tank Farm flushes in support of tank closure activities are not considered to be NGLW, but instead are considered to be part of the existing SBW Tank Farm inventory prior to the end of FY 2005 and will be concentrated and returned to the Tank Farm.
- A treatment facility will be available to handle residual material removed from the tanks.
- CERCLA closure will be completed after all tanks are RCRA closed.
- The final RCRA cap will not be placed until all tanks have been closed, the building and facilities within 100 feet have been closed, and CERCLA activities are completed.
- The final RCRA cap will be designed to RCRA and CERCLA requirements.

- Tier I Closure Plan will be approved by February 1, 2003.
- Safety Analysis Report 107A will be approved by May 1, 2003.
- WIR be approved by May 1, 2003.
- Tier II Closure Plan will be approved by May 1, 2003.
- RCRA Closure Plan will be approved by September 30, 2003.
- The Environmental Impact Statement will be completed and the Record of Decision issued by May 1, 2003.
- Tanks and piping in the Tank Farm will be left in place.
- If RCRA action level limits are not met, the Tank Farm Facility will be closed to a RCRA landfill.
- The Tank Farm Facility tank closure will be closed in accordance with DOE Order 435.1 and not DOE 413.
- The cathodic protection project will not impact the Tank Farm Facility closure schedule.
- The four 30,000 gallon tanks that are addressed in VCO SITE-TANK-005 System Identification document INTEC-080 will be closed as part of the Tank Farm RCRA Closure and will not require any additional VCO follow-on actions.
- The Interim Action to apply surface sealing to the Tank Farm soils does not occur before October 1, 2004.
- The final Tank Farm soils remedy will be low infiltration cap with a design similar to the INEEL CERCLA Disposal Facility cap. The cap will be of a modular design that will allow the cap to be integrated into a larger INTEC cap.
- The final INTEC cap will be defined in the OU 3-13 Group 3 Remedial Design/Remedial Action Work Plan.
- The post-remedial Tank Farm surveillance and monitoring will be transferred to INEEL Surveillance, Monitoring and Long-Term Operations on October 1, 2019.

5. SCIENCE AND TECHNOLOGY NEEDS

Science and Technology Need Number	Science and Technology Need Description
None Identified	

Activity ID	Activity Description	Early Start	Early Finish
INEEL			
EM Project			
INTEC Completion			
INTEC Completion			
CPP-SP5 Integrated Tank Farm Closure			
OU 3-14 Tank Farm Soils Remediation			
OU 3-14 Tank Farm Soils Remediation			
5LE001	RI/FS Work Plan	01OCT03	16MAR04
5LCADJ01	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
5LE003	Groundwater Remedial Investigation	15JUN04*	02OCT06
5LCADJ02	FY05 Contingency Adjustment (-75%)	01OCT04	30SEP05
5LE005	Groundwater Investigation Report	03OCT06	19MAR07
5LE007	Tank Farm Soil Investigation	15FEB08*	14JUN12
5LCADJ03	FY09 to FY10 Contingency Adjustment (+75% FY05)	01OCT08*	30SEP10
5LE009	Remedial Investigation Baseline Risk Assessment	15JUN12	13JUN13
5LE011	RI/FS Report	12FEB13*	18NOV13
5LEMILE1	Draft RI/FS Report to DOE-ID, EPA, IDEQ		17JUL13*
5LE013	EPA National Remedy Review Board (NRRB)	03SEP13*	20JUN14
5LE015	Proposed Plan	03OCT13*	04AUG14
5LE017	Record of Decision	21MAY14*	21APR15
5LEMILE3	Draft Record of Decision to Agencies		04NOV14*
5LE019	RD/RA Scope of Work	25MAR15*	03NOV15
5LE021	Remedial Design/Remedial Action Work Plan	22APR15	12JUL16
5LEMILE5	Draft RD/RA WP to Agencies		26JAN16*
5LE023	Phase I Tank Farm Remedial Action (Interim Cap)	13JUL16	30SEP19
5LE025	Remedial Action Report	01OCT19	24SEP20
5LEMILE7	Draft RA Report to Agencies		25MAY20*
Tank Closure Project Management			
Tank Closure Project Management			
5LCADJ04	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
5LHTCPM	Tank Closure Project Management	01OCT03	30SEP13
5LE027	OU 3-14 Tank Farm Soils Project Management	01OCT03	29MAY20
5LH0082	SP-5 Project Management	01OCT03	30SEP20
5LHMILE1	Complete cleaning/grouting of 2nd P&P Vault Tank		30SEP04*
5LHMILE2	S PBH-05 2.6.3 FY04 Complete tank solids charact		30SEP04*
5LCADJ05	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
5LH0089	C-23 Valve Box Upgrade	01OCT04*	30SEP05
5LHMILE3	Cease receipt of NGLW in the 11 HLW Tanks		30SEP05*
5LH0085	C-29, C-30 Valve Box Upgrades	03OCT05*	29SEP06
5LH0083	SAM-612 Removal (Vault Sump Transfer Lines) GPP	02OCT06*	28SEP07
5LCADJ06	FY09 to FY10 Contingency Adjustment (+75% FY05)	01OCT08*	30SEP10
5LH0091	Tank Closure Demobilization	27SEP12	26SEP13



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PBS A- INTEC Completion
SP-5
Integrated Tank Farm Closure

Lifecycle Baseline

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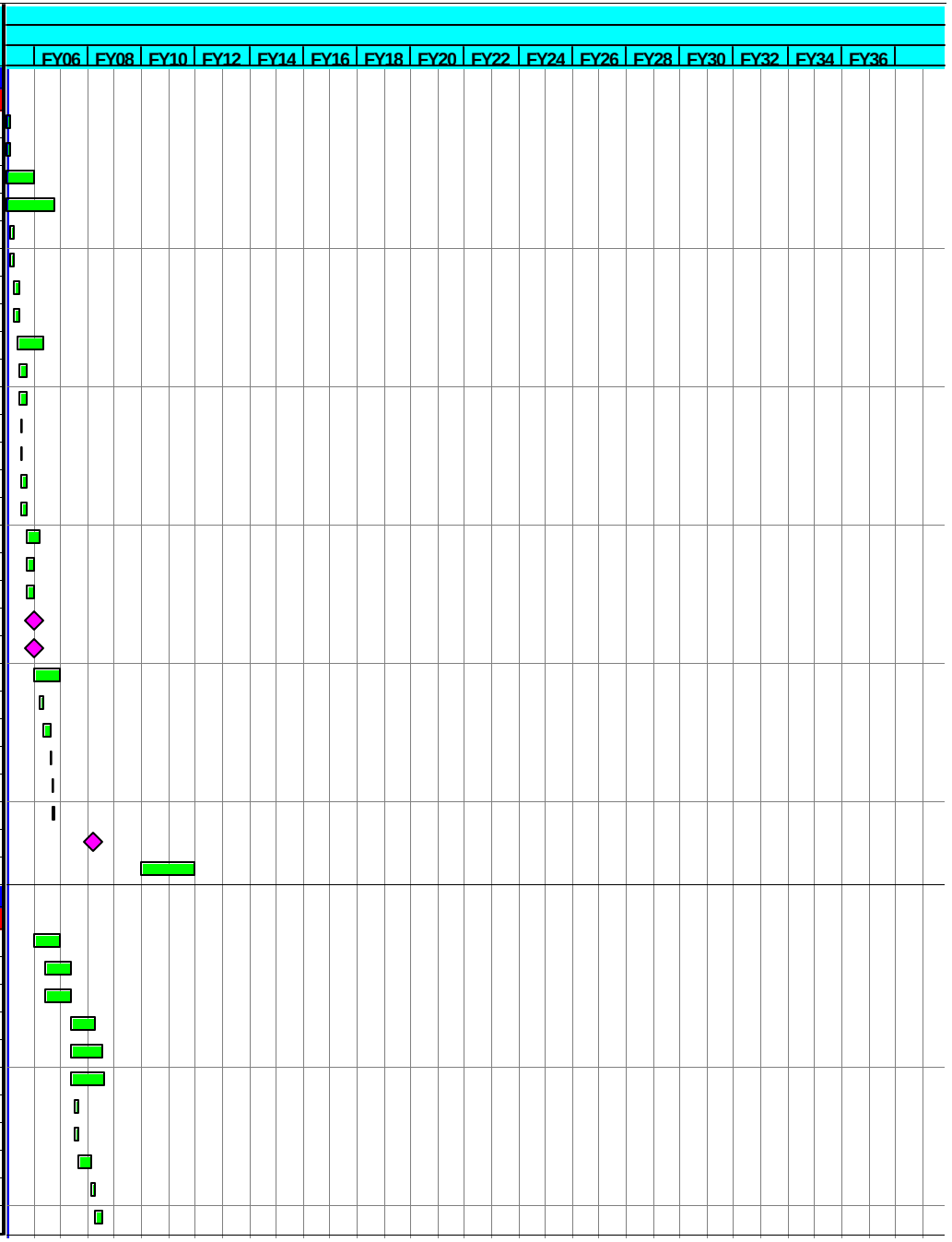
Activity ID	Activity Description	Early Start	Early Finish
Closure of Tanks WM-184 WM-185 & WM-186			
Closure of Tanks WM-184 WM-185 & WM-186			
5LH500	Final Heel Samples	01OCT03	11NOV03
5LH600	Final Heel Samples	01OCT03	11NOV03
5LCADJ07	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
5LH400	Site Preparation	01OCT03	18JUL05
5LH502	Additional Rewashing	12NOV03	02JAN04
5LH602	Additional Rewashing	12NOV03	02JAN04
5LH504	Additional Sample and Analysis	05JAN04	26MAR04
5LH604	Additional Sample and Analysis	05JAN04	26MAR04
5LH402	GFE Material	01MAR04*	03FEB05
5LH404	Tank Isolation/Decon Lines	01APR04	24JUN04
5LH406	Wash Tank	01APR04	24JUN04
5LH506	Solidify Remaining Heel	06APR04	12APR04
5LH606	Solidify Remaining Heel	06APR04	12APR04
5LH508	Fill Vault with Clean Grout	13APR04	07JUL04
5LH608	Fill Vault with Clean Grout	13APR04	07JUL04
5LH408	Final Heel Samples	25JUN04	15DEC04
5LH510	Fill Tank with Clean Grout	08JUL04	30SEP04
5LH610	Fill Tank with Clean Grout	08JUL04	30SEP04
5LHMILE5	5-2.6By the end of FY04 Clean two more P&P Tanks		30SEP04*
5LHMILE6	5-2.7By the end of FY04 Close two more P&P Tanks		30SEP04*
5LCADJ08	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
5LH410	Additional Rewashing	16DEC04	03FEB05
5LH412	Additional Sample and Analysis	04FEB05	26MAY05
5LH414	Solidify Remaining Heel	27MAY05	03JUN05
5LH416	Fill Vault with Clean Grout	06JUN05	24JUN05
5LH418	Fill Tank with Clean Grout	27JUN05	18JUL05
5LHMILE7	Complete clean/grout of remaining P&P vault tank		29DEC06*
5LCADJ09	FY09 to FY10 Contingency Adjustment (+75% FY05)	01OCT08*	30SEP10
Closure of Tanks WM-103 WM-104 WM-105 & WM-10			
Closure of Tanks WM-103 WM-104 WM-105 & WM-10			
5LCADJ10	FY-05 Contingency Adjustment (-75%)	01OCT04*	30SEP05
5LH100	Closure Plan	01MAR05*	01MAR06
5LH102	Design	01MAR05*	01MAR06
5LH108	GFE Material	02MAR06	08JAN07
5LH106	Mockup	02MAR06	30APR07
5LH104	Site Preparation	02MAR06	29MAY07
5LH110	Tank Isolation/Decon Lines	03APR06	26MAY06
5LH112	Wash Tank	03APR06	26MAY06
5LH114	Final Heel Samples	30MAY06	15NOV06
5LH116	Additional Rewashing	16NOV06	08JAN07
5LH118	Additional Sample and Analysis	09JAN07	30APR07



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Integrated Tank Farm Closure

Lifecycle Baseline

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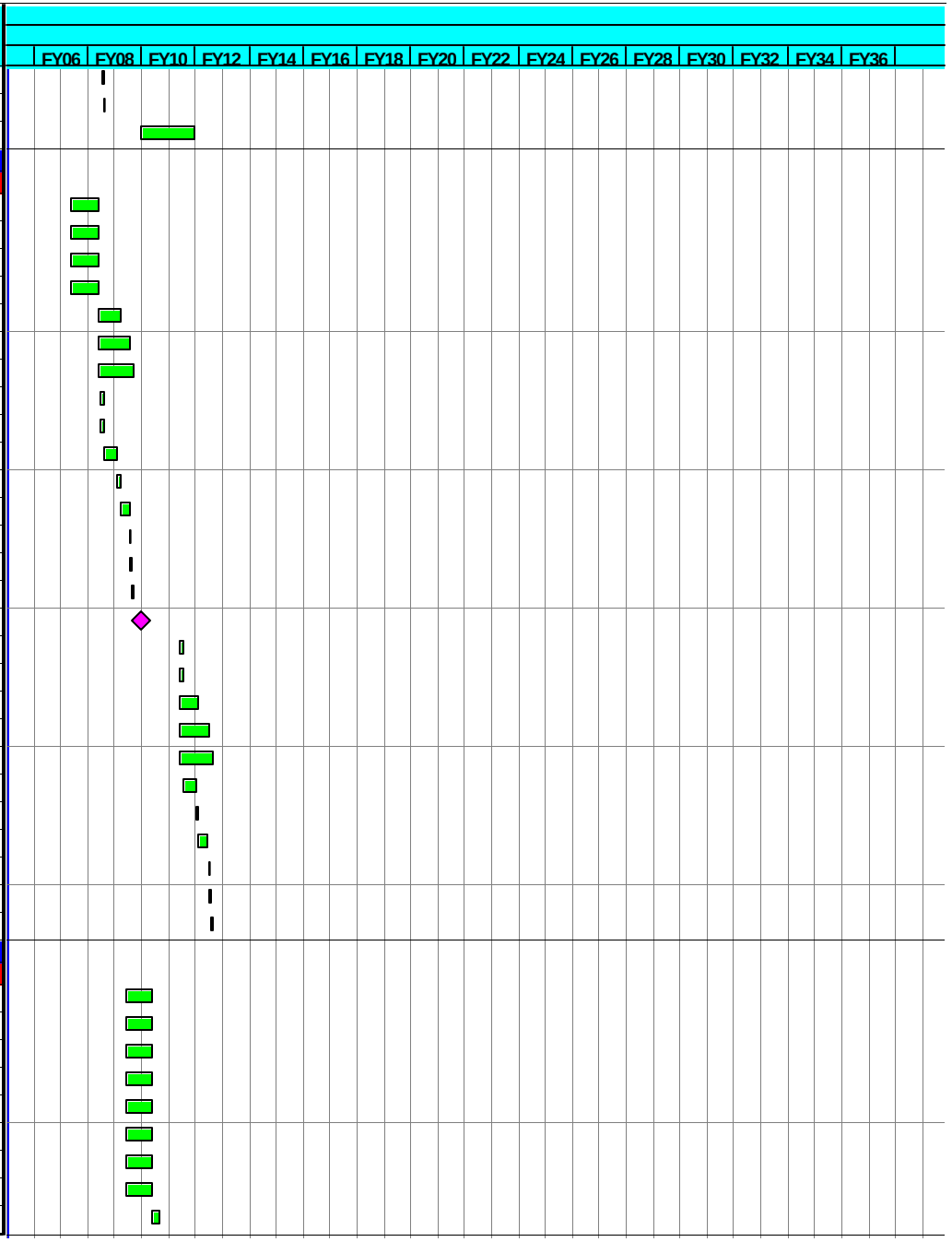
Activity ID	Activity Description	Early Start	Early Finish
5LH120	Solidify Remaining Heel	01MAY07	07MAY07
5LH124	Fill Tank with Clean Grout	08MAY07	29MAY07
5LCADJ11	FY09 to FY10 Contingency Adjustment (+75% FY05)	01OCT08*	30SEP10
Closure of Tanks WM-180 & WM-181			
Closure of Tanks WM-180 & WM-181			
5LH001	Closure Plan	01MAR06*	01MAR07
5LH003	Design	01MAR06*	01MAR07
5LH050	Closure Plan	01MAR06	01MAR07
5LH052	Design	01MAR06	01MAR07
5LH058	GFE Material	02MAR07	07JAN08
5LH056	Mockup	02MAR07	28APR08
5LH054	Site Preparation	02MAR07	17JUN08
5LH060	Tank Isolation/Decon Lines	02APR07	25MAY07
5LH062	Wash Tank	02APR07	25MAY07
5LH064	Final Heel Samples	29MAY07	14NOV07
5LH066	Additional Rewashing	15NOV07	07JAN08
5LH068	Additional Sample and Analysis	08JAN08	28APR08
5LH070	Solidify Remaining Heel	29APR08	05MAY08
5LH072	Fill Vault with Clean Grout	06MAY08	27MAY08
5LH074	Fill Tank with Clean Grout	28MAY08	17JUN08
5LHMILE4	Complete cleaning/grouting of two more Tanks		30SEP08*
5LH013	Tank Isolation/Decon Lines	03MAR10	27APR10
5LH015	Wash Tank	03MAR10	27APR10
5LH007	GFE Material	03MAR10	12NOV10
5LH005	Mockup	03MAR10	31MAR11
5LH004	Site Preparation	03MAR10	19MAY11
5LH011	Final Heel Samples	28APR10	15OCT10
5LH017	Additional Rewashing	18OCT10	12NOV10
5LH019	Additional Sample and Analysis	15NOV10	15MAR11
5LH021	Solidify Remaining Heel	01APR11	07APR11
5LH023	Fill Vault with Clean Grout	08APR11	28APR11
5LH025	Fill Tank with Clean Grout	29APR11	19MAY11
Closure of Tanks WM-187 WM-188 WM-189 & WM-19			
Closure of Tanks WM-187 WM-188 WM-189 & WM-190			
5LH700	Closure Plan	03MAR08*	03MAR09
5LH702	Design	03MAR08*	03MAR09
5LH800	Closure Plan	03MAR08	03MAR09
5LH802	Design	03MAR08	03MAR09
5LH900	Closure Plan	03MAR08	03MAR09
5LH902	Design	03MAR08	03MAR09
5LH950	Closure Plan	03MAR08	03MAR09
5LH952	Design	03MAR08	03MAR09
5LH958	GFE Material	04MAR09	28MAY09



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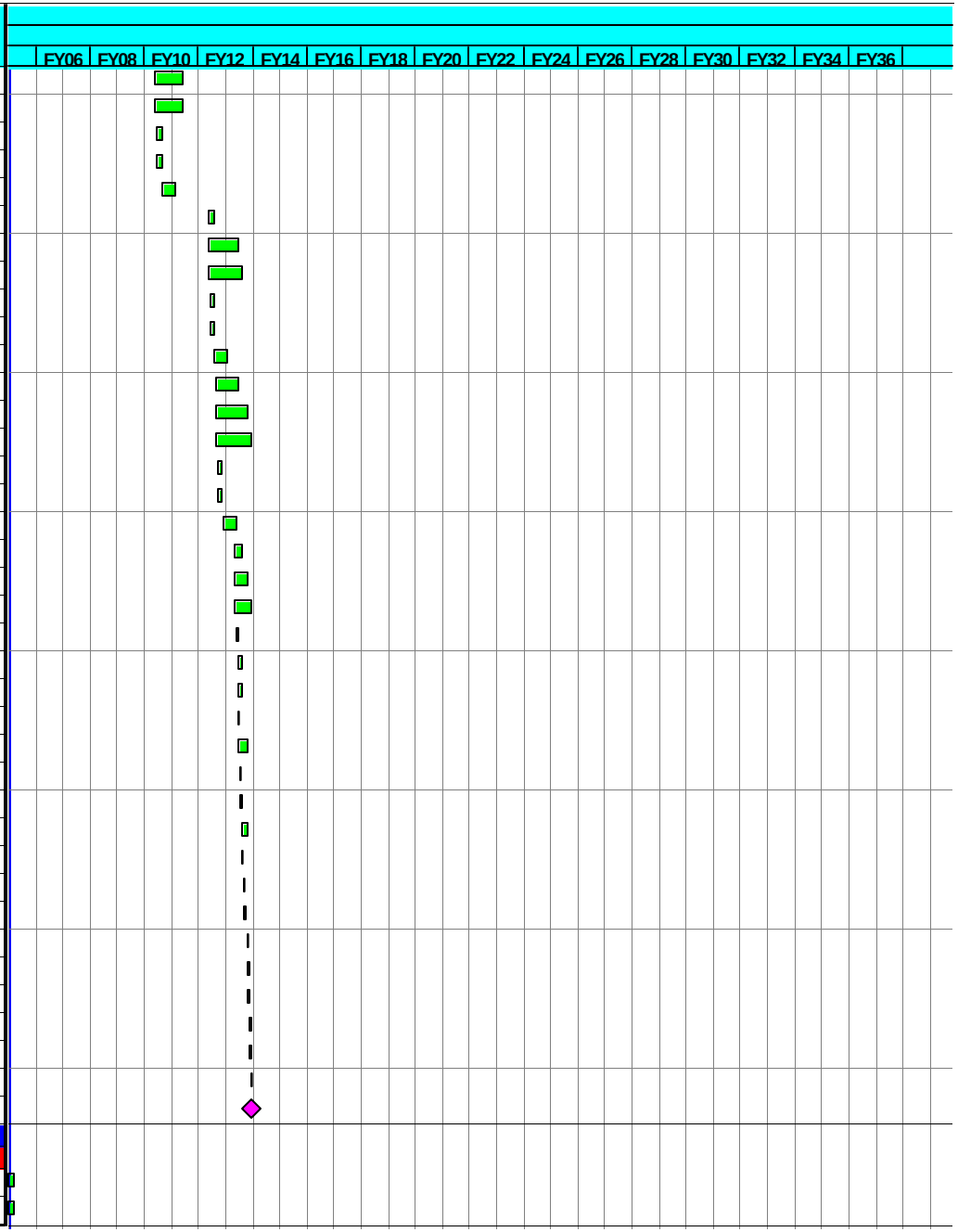
PBS A- INTEC Completion
SP-5
Integrated Tank Farm Closure

Lifecycle Baseline

Activity ID	Activity Description	Early Start	Early Finish
5LH954	Site Preparation	04MAR09	26FEB10
5LH956	Mockup	04MAR09	26FEB10
5LH960	Tank Isolation/Decon Lines	02APR09	28MAY09
5LH962	Wash Tank	02APR09	28MAY09
5LH964	Final Heel Samples	29MAY09	16NOV09
5LH808	GFE Material	17FEB11	12MAY11
5LH806	Mockup	17FEB11	30MAR12
5LH804	Site Preparation	17FEB11	18MAY12
5LH810	Tank Isolation/Decon Lines	18MAR11	12MAY11
5LH812	Wash Tank	18MAR11	12MAY11
5LH814	Final Heel Samples	13MAY11	01NOV11
5LH708	GFE Material	02JUN11	05APR12
5LH706	Mockup	02JUN11	31JUL12
5LH704	Site Preparation	02JUN11	19SEP12
5LH710	Tank Isolation/Decon Lines	01JUL11	26AUG11
5LH712	Wash Tank	01JUL11	26AUG11
5LH714	Final Heel Samples	29AUG11	23FEB12
5LH908	GFE Material	16FEB12	11MAY12
5LH906	Mockup	16FEB12	07AUG12
5LH904	Site Preparation	16FEB12*	26SEP12
5LH716	Additional Rewashing	24FEB12	05APR12
5LH910	Tank Isolation/Decon Lines	19MAR12	11MAY12
5LH912	Wash Tank	19MAR12	11MAY12
5LH820	Solidify Remaining Heel	02APR12	06APR12
5LH718	Additional Sample and Analysis	06APR12	31JUL12
5LH822	Fill Vault with Clean Grout	09APR12	27APR12
5LH824	Fill Tank with Clean Grout	30APR12	18MAY12
5LH914	Final Heel Samples	14MAY12	07AUG12
5LH970	Solidify Remaining Heel	21MAY12	25MAY12
5LH972	Fill Vault with Clean Grout	29MAY12	18JUN12
5LH974	Fill Tank with Clean Grout	19JUN12	10JUL12
5LH720	Solidify Remaining Heel	01AUG12	07AUG12
5LH920	Solidify Remaining Heel	08AUG12	14AUG12
5LH722	Fill Vault with Clean Grout	08AUG12	28AUG12
5LH922	Fill Vault with Clean Grout	15AUG12	05SEP12
5LH724	Fill Tank with Clean Grout	29AUG12	19SEP12
5LH924	Fill Tank with Clean Grout	06SEP12	26SEP12
5LHMILE8	Close remaining Tank Farm Tanks		26SEP12
Tank Closure Corrosion Coupon Evaluations			
Tank Closure Corrosion Coupon Evaluations			
5LHCC07	WM-184 Corrosion Coupon Evaluation	01OCT03*	24DEC03
5LHCC13	WM-188 Corrosion Coupon Evaluation	01OCT03	24DEC03



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PBS A- INTEC Completion
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Integrated Tank Farm Closure

Lifecycle Baseline

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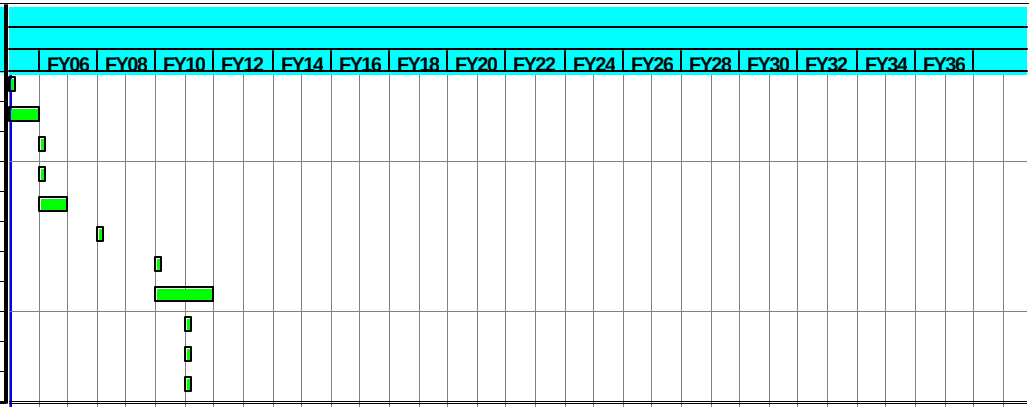
Activity ID	Activity Description	Early Start	Early Finish
5LHCC17	WM-189 Corrosion Coupon Evaluation	01OCT03	24DEC03
5LCADJ12	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
5LHCC01	WM-180 Corrosion Coupon Evaluation	01OCT04*	23DEC04
5LHCC09	WM-187 Corrosion Coupon Evaluation	01OCT04*	23DEC04
5LCADJ13	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
5LHCC05	WM-181 Corrosion Coupon Evaluation	02OCT06*	22DEC06
5LHCC03	WM-180 Corrosion Coupon Evaluation	01OCT08*	24DEC08
5LCADJ14	FY09 to FY10 Contingency Adjustment (+75% FY05)	01OCT08*	30SEP10
5LHCC11	WM-187 Corrosion Coupon Evaluation	01OCT09*	24DEC09
5LHCC15	WM-188 Corrosion Coupon Evaluation	01OCT09*	24DEC09
5LHCC19	WM-189 Corrosion Coupon Evaluation	01OCT09*	24DEC09



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Integrated Tank Farm Closure

Lifecycle Baseline

INTEC Completion

Subproject Breakout by Control Account

WBS[5]		WBS[6]		Sep-04	Sep-05	Sep-06	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
A.1.01.00.05 CPP-SP5 Integrated Tank Farm Closure													
	BURDENED BASE												
		A.1.01.00.05.01 OU 3-14 Tank Farm Soils Remediation	BCWS	230	538	798	134	437	880	880	686	520	766
		A.1.01.00.05.02 Tank Closure Project Management	BCWS	2,249	2,551	3,273	2,510	2,313	2,372	2,372	2,313	2,303	3,349
		A.1.01.00.05.03 Closure of Tanks WM-184 WM-185 & WM-186	BCWS	4,121	1,499	0	0	0	264	264	0	0	0
		A.1.01.00.05.04 Closure of Tanks WM-103 WM-104 WM-105 & WM-106	BCWS	0	249	2,354	1,431	0	3	3	0	0	0
		A.1.01.00.05.05 Closure of Tanks WM-180 & WM-181	BCWS	0	0	505	2,518	1,717	0	2,343	1,553	0	0
		A.1.01.00.05.06 Closure of Tanks WM-187 WM-188 WM-189 & WM-190	BCWS	0	0	0	0	1,004	3,202	254	4,209	7,960	0
		A.1.01.00.05.07 Tank Closure Corrosion Coupon Evaluations	BCWS	273	251	0	26	0	36	88	0	0	0
	Results... Totals:		**BCWS**	**6,873**	**5,088**	**6,930**	**6,619**	**5,471**	**6,757**	**6,203**	**8,760**	**10,783**	**4,115**
	ESCALATE												
		A.1.01.00.05.01 OU 3-14 Tank Farm Soils Remediation	BCWS	6	24	53	12	49	118	139	125	108	187
		A.1.01.00.05.02 Tank Closure Project Management	BCWS	69	133	239	242	277	339	396	443	499	808
		A.1.01.00.05.03 Closure of Tanks WM-184 WM-185 & WM-186	BCWS	127	69	0	0	0	35	41	0	0	0
		A.1.01.00.05.04 Closure of Tanks WM-103 WM-104 WM-105 & WM-106	BCWS	0	13	186	128	0	0	0	0	0	0
		A.1.01.00.05.05 Closure of Tanks WM-180 & WM-181	BCWS	0	0	38	254	194	0	395	287	0	0
		A.1.01.00.05.06 Closure of Tanks WM-187 WM-188 WM-189 & WM-190	BCWS	0	0	0	0	122	464	40	826	1,699	0
		A.1.01.00.05.07 Tank Closure Corrosion Coupon Evaluations	BCWS	6	11	0	2	0	5	14	0	0	0
	Results... Totals:		**BCWS**	**207**	**251**	**517**	**638**	**641**	**961**	**1,025**	**1,681**	**2,306**	**995**
	SUMMARY (Base + Escalation)												
		A.1.01.00.05.01 OU 3-14 Tank Farm Soils Remediation	BCWS	236	562	851	145	486	997	1,018	811	628	953
		A.1.01.00.05.02 Tank Closure Project Management	BCWS	2,318	2,684	3,512	2,751	2,589	2,710	2,767	2,756	2,802	4,157
		A.1.01.00.05.03 Closure of Tanks WM-184 WM-185 & WM-186	BCWS	4,248	1,568	0	0	0	300	306	0	0	0
		A.1.01.00.05.04 Closure of Tanks WM-103 WM-104 WM-105 & WM-106	BCWS	0	262	2,540	1,560	0	3	3	0	0	0
		A.1.01.00.05.05 Closure of Tanks WM-180 & WM-181	BCWS	0	0	544	2,772	1,911	0	2,738	1,840	0	0
		A.1.01.00.05.06 Closure of Tanks WM-187 WM-188 WM-189 & WM-190	BCWS	0	0	0	0	1,126	3,666	293	5,034	9,659	0
		A.1.01.00.05.07 Tank Closure Corrosion Coupon Evaluations	BCWS	279	262	0	28	0	41	102	0	0	0
	Results... Totals:		**BCWS**	**7,081**	**5,338**	**7,447**	**7,257**	**6,113**	**7,718**	**7,227**	**10,441**	**13,089**	**5,110**

Thousands of $

INTEC Completion

Subproject Breakout by Control Account

WBS[5]		WBS[6]		FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Cumulative
A.1.01.00.05 CPP-SP5 Integrated Tank Farm Closure											
	BURDENED BASE										
		A.1.01.00.05.01 OU 3-14 Tank Farm Soils Remediation	BCWS	483	3,510	5,393	2,046	2,046	2,054	175	21,573
		A.1.01.00.05.02 Tank Closure Project Management	BCWS	1,083	1,083	1,087	1,078	1,078	1,083	1,044	33,138
		A.1.01.00.05.03 Closure of Tanks WM-184 WM-185 & WM-186	BCWS	0	0	0	0	0	0	0	6,149
		A.1.01.00.05.04 Closure of Tanks WM-103 WM-104 WM-105 & WM-106	BCWS	0	0	0	0	0	0	0	4,039
		A.1.01.00.05.05 Closure of Tanks WM-180 & WM-181	BCWS	0	0	0	0	0	0	0	8,637
		A.1.01.00.05.06 Closure of Tanks WM-187 WM-188 WM-189 & WM-190	BCWS	0	0	0	0	0	0	0	16,628
		A.1.01.00.05.07 Tank Closure Corrosion Coupon Evaluations	BCWS	0	0	0	0	0	0	0	674
	Results... Totals:		**BCWS**	**1,565**	**4,592**	**6,479**	**3,124**	**3,124**	**3,136**	**1,220**	**90,838**
	ESCALATE										
		A.1.01.00.05.01 OU 3-14 Tank Farm Soils Remediation	BCWS	128	1,047	1,701	692	749	811	76	6,025
		A.1.01.00.05.02 Tank Closure Project Management	BCWS	292	321	352	379	409	442	457	6,096
		A.1.01.00.05.03 Closure of Tanks WM-184 WM-185 & WM-186	BCWS	0	0	0	0	0	0	0	273
		A.1.01.00.05.04 Closure of Tanks WM-103 WM-104 WM-105 & WM-106	BCWS	0	0	0	0	0	0	0	329
		A.1.01.00.05.05 Closure of Tanks WM-180 & WM-181	BCWS	0	0	0	0	0	0	0	1,168
		A.1.01.00.05.06 Closure of Tanks WM-187 WM-188 WM-189 & WM-190	BCWS	0	0	0	0	0	0	0	3,150
		A.1.01.00.05.07 Tank Closure Corrosion Coupon Evaluations	BCWS	0	0	0	0	0	0	0	37
	Results... Totals:		**BCWS**	**420**	**1,368**	**2,053**	**1,071**	**1,159**	**1,254**	**533**	**17,079**
	SUMMARY (Base + Escalation)										
		A.1.01.00.05.01 OU 3-14 Tank Farm Soils Remediation	BCWS	611	4,556	7,094	2,738	2,795	2,865	252	27,599
		A.1.01.00.05.02 Tank Closure Project Management	BCWS	1,374	1,403	1,438	1,457	1,488	1,525	1,501	39,235
		A.1.01.00.05.03 Closure of Tanks WM-184 WM-185 & WM-186	BCWS	0	0	0	0	0	0	0	6,421
		A.1.01.00.05.04 Closure of Tanks WM-103 WM-104 WM-105 & WM-106	BCWS	0	0	0	0	0	0	0	4,368
		A.1.01.00.05.05 Closure of Tanks WM-180 & WM-181	BCWS	0	0	0	0	0	0	0	9,804
		A.1.01.00.05.06 Closure of Tanks WM-187 WM-188 WM-189 & WM-190	BCWS	0	0	0	0	0	0	0	19,778
		A.1.01.00.05.07 Tank Closure Corrosion Coupon Evaluations	BCWS	0	0	0	0	0	0	0	711
	Results... Totals:		**BCWS**	**1,985**	**5,960**	**8,532**	**4,195**	**4,283**	**4,390**	**1,753**	**107,917**

Thousands of $

SUBPROJECT PLAN

WBS: A.1.01.00.06
Title: INTEC-SP6 EXCESS FACILITIES DISPOSITION & D&D

Subproject Mgr:	**Doug Kuhns**	**Planning and Controls:**	**Roy Matthews**
DOE-ID:		**ES&H Field Manager:**	**Corrinne Jones**
INTEC Manager:	**Richard Loos**	**Other:**	

1. WORK DESCRIPTION:

Idaho Nuclear Technology and Engineering Center (INTEC) Subproject 6 (SP6) provides the facilities disposition and final end-state implementation. It integrates the following programs into a single project to achieve the final end-state identified in Figure 1:

- Voluntary Consent Order (VCO)
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Remediation
- INTEC Monitoring
- SP6 Integration and Compliance
- Deactivation, Decontamination, and Decommissioning (includes Resource Conservation and Recovery Act [RCRA] closure).

In addition, activities associated with the deactivation, decontamination, and decommissioning of Fort St. Vrain are included in SP6 work scope.

VOLUNTARY CONSENT ORDER

A.1.01.00.06.01 – VCO SITE-TANK-005 INTEC

This is the SITE-TANK-005 VCO work that supports INTEC Completion, Excess Facilities Disposition, and Deactivation, Decontamination, and Decommissioning (INTEC-SP6). The objective of this Life-Cycle Baseline control account is to complete RCRA characterization and follow-on activities of all tank systems located at INTEC and included in the VCO Action Plan's SITE-TANK-005 inventory. All activities will be completed in the timeframe from FY 2004 through FY 2012.

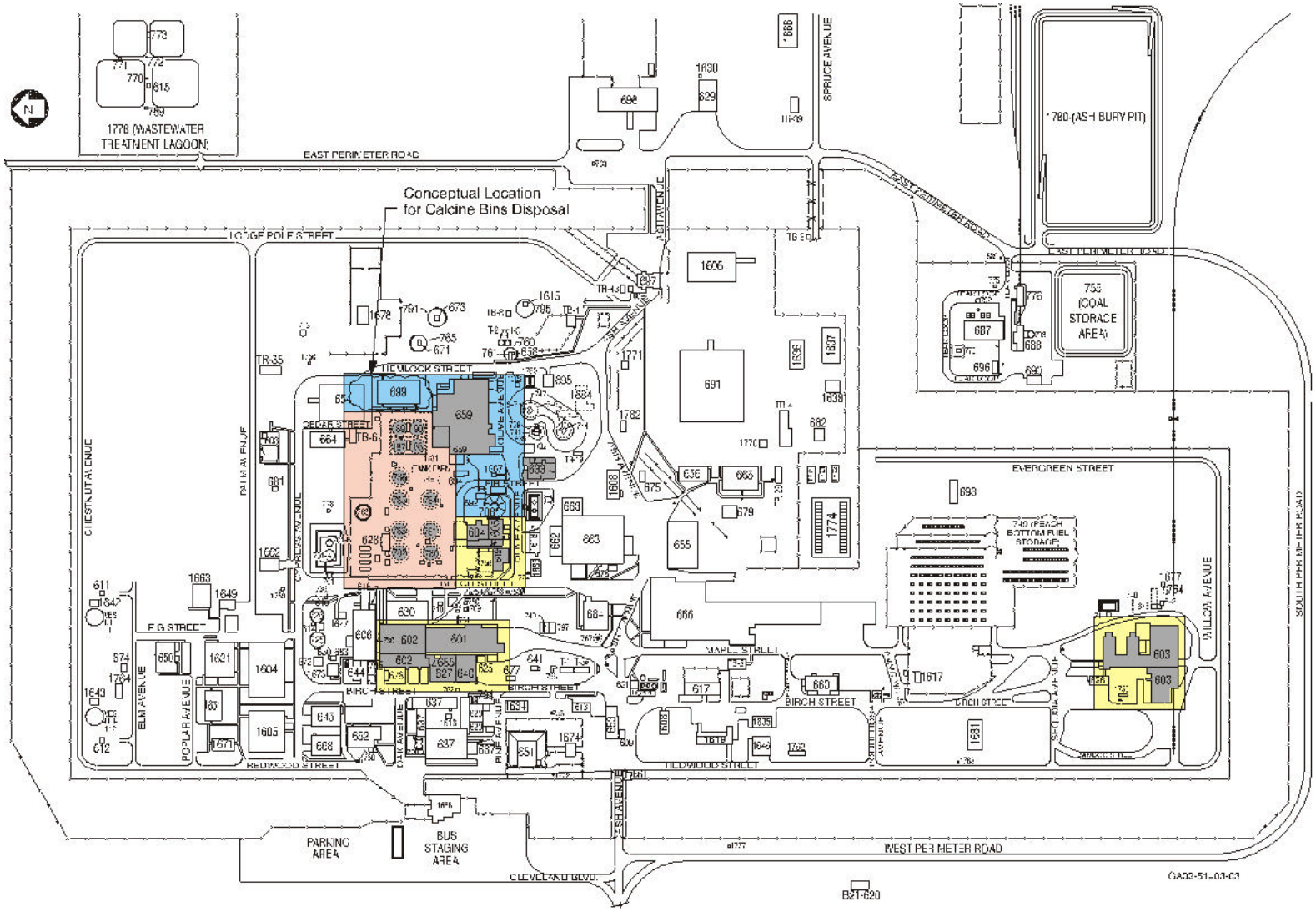
The VCO Action Plan enforceable milestones are listed below:

- Perform hazardous waste/empty determinations on 50% of Idaho National Environmental and Engineering Laboratory (INEEL) SITE-TANK-005 tanks----- September 30, 2004
- Perform hazardous waste/empty determinations on 75% of INEEL SITE-TANK-005 tanks ----- September 30, 2005
- Perform hazardous waste/empty determinations on 100% of INEEL SITE-TANK-005 tanks ---- September 30, 2006

For the Accelerated Clean-up Plan, the commitment to complete 100% of the tanks has been moved up to September 30, 2005.

For the Accelerated Clean-up Plan, the commitment to complete all follow-on actions has been moved up to September 30, 2012.

The VCO Action Plan requires tanks listed in the SITE-TANK-005 inventory to be characterized (Phase 1). The preparation of a RCRA Characterization Engineering Design File, which must be submitted to the Idaho Department of Environmental Quality (IDEQ) for review and approval, documents this characterization. Once characterization is approved by IDEQ, the tank systems will either be considered finished from a VCO Action Plan perspective (i.e., moved to Appendix C in the VCO Action Plan) or will require follow-on actions.



Legend

- Denotes contaminated facilities to be grouted in place.
- Denotes Group 2 CERCLA cap.
- Denotes CERCLA cap following OU 3-13 ROD amendment.
- OU 3-14 cap.

Notes:

1. Facilities/structures to have contamination left in place and grouted: 601 627, 602 640, 603 649, 604 659, 605, 633 Tank Farm Tanks
2. Tank Farm closure and associated landfill cap to be planned under the Idaho Tank Farm Project.
3. CERCLA cap to be installed for 601, 602, 603, 604, 605 and 649 through the Group 2 RD/RA Work Plan.
4. Other caps to be installed for 659 and 666 following an OU 3-13 ROD amendment.

Approximate Cap Dimensions:

601/602	230 ft x 470 ft	2.48 acres
603	320 ft x 320 ft	2.35 acres
604/605/649	220 ft x 220 ft	1.11 acres
659	220 ft x 500 ft 120 ft x 430 ft	3.71 acres
Tank Farm	430 ft x 600 ft	5.92 acres
		15.60 acres

Conceptual INTEC End State Planning for the FY-03 Life Cycle Baseline

For tank systems that are submitted to IDEQ and have been determined to contain hazardous waste, follow-on action (Phase 2) milestones must be identified within 90 days. These milestones will be submitted to the IDEQ and will become enforceable milestones under the VCO.

The follow-on work within the scope of this control account includes: (a) the RCRA-closure of hazardous waste tanks, (b) inclusion of the tanks into the INEEL RCRA Part B permit, or (c) isolation of tanks to mitigate future RCRA violations.

The VCO also requires that the INEEL systems be evaluated to ensure that interim actions are identified to prevent a potential release to the environment and that worker health and safety are maintained.

This Life-Cycle Baseline control account also covers project management for the activities directly related to work in INTEC-SP6.

CERCLA REMEDIATION

A.1.01.00.06.02 – Group 2 Soils Under Buildings

Remediation of the Group 2 sites will include capping and/or removal of contaminated soils beneath the building as required. The anticipated work scope has been divided into two segments:

1. To be conducted prior to remediation
   - Performing a document review and inspection (if possible) of the existing piping conditions near the Group 2 sites. The results of this work will be documented in the Phase I Piping Evaluation Report.
   - Developing the Phase II Piping Evaluation and Testing Plan that will include the scope and schedule for performance of the recommended testing or further evaluation activities to determine if subsurface lines are contributing to infiltration at Group 2 sites.
   - Conducting piping leak tests.
   - Preparation of the Phase II Piping Evaluation and Testing Report.
2. To be performed as part of remediation
   - Group 2 CPP-601/-602 CERCLA Remediation for Sites CPP-80 and CPP-86
   - Group 2 CPP-604/-605/-645 CERCLA Remediation for Sites CPP-87, CPP-89, and CPP-60
   - Group 2 CPP-603 CERCLA Remediation for Site CPP-02.

Each of these packages contain the following activities that will be performed as part of remediation:

- Preparation and finalization of Remedial Design/Remedial Action (RD/RA) Work Plans for deactivation, decontamination, and decommissioning of the buildings and associated soil sites beneath the buildings.
- Performing characterization of the soils under the buildings. This information will be used to document the concentrations of contaminants left in place following remediation.
- Conducting remedial actions (i.e., capping) as described in the RD/RA Work Plans for the respective sites.
- Performing closure activities, including remediation verification, sampling and analysis, capping quality assurance certification, prefinal inspections, corrective actions, and final inspections.
- Preparation and finalization of the RA Reports for each of the Group 2 sites and associated buildings.
- Turnover of operations and maintenance and institutional controls to Long-Term Stewardship (LTS).

Site CPP-85, associated with CPP-633, is addressed under the Task Plan dealing with End State Implementation (see SP6 Integration and Compliance).

A.1.01.00.06.03 – Group 3 Other Surface Soils

This Work Scope is the CERCLA remediation for 29 identified release sites from INTEC (includes two Group 2 sites). The release sites have been grouped into six distinct remediation sets as identified in the *Operable Unit 3-13, Group 3, Other Surface Soils, Prioritization and Site Grouping Report*. Removal activities will be conducted in a phased approach with each grouping or set of release sites being a separate phase. Group 3 remediation will involve preparing an RD/RA Work Plan, obtaining Agency approval of the RD/RA Work Plan, sampling and characterizing each of the identified release sites, excavating and transporting contaminated soils to the INEEL CERCLA Disposal Facility (ICDF), and performing a prefinal inspection and corrective actions for each remediation set. Following the completion of remediation activities for all remediation sets, a final inspection, corrective actions, and RA Report will be prepared and submitted to the Agencies for review and approval. The work scope will also include controls to ensure the safe removal of contaminated media as defined in the OU-13 Record of Decision.

A.1.01.00.06.04 – Groundwater Remediation at INTEC

Group 4 Perched Water CERCLA Remediation

The OU 3-13 Record of Decision establishes two remediation goals for the perched water of (1) “reduce recharge to the perched water,” and (2) “minimize migration of contaminants to the Snake River Plain Aquifer, so that Snake River Plain Aquifer groundwater outside of the current INTEC security fence meets the applicable State of Idaho groundwater standards by the year 2095” (Record of Decision, Sect. 8.1.4, p 8-9).

Work scope will include the following:

- Complete annual perched water monitoring reports for years FY 2004 through FY 2014
- Prepare the MR/DS document in FY 2007
- Prepare the contingent remedy RD/RA Work Plan in FY 2008
- Complete the contingent remedial action of lining the BLR in FY 2008 through FY 2010
- Prepare the contingent remedy MR/DS document in FY 2016
- Closeout and transfer to LTS in FY 2016.

Group 5 Snake River Plain Aquifer CERCLA Remediation

The OU 3-13 RECORD OF DECISION requires remediation of the Snake River Plain Aquifer if assessment of the Waste Area Group (WAG) 3 Remedial Investigation/Feasibility Study model-predicted contaminant hot spot and contaminant concentration trends indicates the concentrations of the Group 5 contaminants of concern will exceed maximum contaminant levels in 2095 and beyond.

Two primary activities will be implemented. The first activity is an evaluation of the model-predicted hot spot to check model accuracy and update groundwater model predictions for contaminants of concern concentrations in 2095 and beyond. The second activity comprises (a) groundwater monitoring to evaluate flux of contaminants of concern to Group 5 from Group 4 (the INTEC perched water and vadose zone) and the Snake River Plain Aquifer beneath the INTEC (inside the security fence) and (b) groundwater monitoring of the INTEC plume outside the INTEC fence. A brief description of these two activities is provided below.

Work scope will include an annual groundwater monitoring report prepared in FY 2004 and transfer to LTS.

A.1.01.00.06.05 – [Intentionally Left Blank]

A.1.01.00.06.06 - INTEC Remediation of Gas Cylinder Sites

Group 6 activities consist of remediation of Site CPP-84 and final remediation of CPP-94 soils.

CPP-84 contains between 40 and 100 construction gas cylinders that have been buried below the ground surface. The remedial activities at CPP-84 will be completed in two phases. The first phase is the excavation and segregation of cylinders from the burial grounds. Following the removal of the cylinders, confirmation soil samples will be collected from the floor of the excavation.

The second phase consists of the sampling, treatment, and disposal of the cylinders. Sampling the contents of each cylinder will be conducted using remotely operated equipment and an on-Site laboratory. Based on the analytical results of cylinder contents, the method of treatment will be determined.

For Site CPP-94, the remaining portion of work to be conducted to finish remediation is removal/stabilization of potentially contaminated soils at the site. The institutional control signage will remain until stabilization of this site is complete.

Following remediation, the RA Report will be prepared and submitted to the Agencies for approval.

A.1.01.00.06.07 - CERCLA Remediation of SFE-20 Hot Waste Tank

The SFE-20 Work scope includes the following:

- Revising the Group 7 RD/RA Work Plan, as necessary
- Agency review and approval of the revised Group 7 RD/RA Work Plan
- Excavating and removing the tank vault to allow access to VES-SFE-20
- Removing VES-SFE-20 tank from the vault and preparing for shipment
- Shipping VES-SFE-20 tank to an off-Site treatment, disposal, storage facility
- Off-Site treatment and disposal of the tank and tank contents
- Completing the RCRA Closure Report and Professional Engineer certification for the tank and tank contents
- Excavating, removing, and disposing of the tank vault and associated structures
- Excavating the contaminated soils and disposing in the ICDF
- Verification sampling, analysis, and validation of soils beneath and adjacent to the tank vault and system
- Backfilling the excavated area
- Complete the Group 7 RA Report.

INTEC MONITORING

A.1.01.00.06.08 - INTEC Monitoring

Pre-Deactivation, Decontamination, and Decommissioning Surveillance and Maintenance

The work scope of this project baseline summary provides for the performance of surveillance and maintenence on excess contaminated facilities and structures at INTEC. These facilities and structures will continue to be handled in the INTEC surveillance and maintenence function until they complete decontamination and dismantlement. As contaminated facilities or structures complete deactivation or inactivation at INTEC, they will be monitored by the INTEC pre-deactivation, decontamination, and decommissioning surveillance and maintenence function.

CERCLA Institutional Controls

This work scope includes maintenance of physical barriers and restrictions, identified as institutional controls, around identified CERCLA sites at INTEC, the associated periodic inspections and inspection reports, preparation of an annual update to the Institutional Control Plan, preparation of the 5-year CERCLA Review Reports, and annual Monitoring Report preparation.

Group 1 Tank Farm Interim Action Monitoring

The OU 3-13 Tank Farm Interim Action was designed to mitigate risk until a final remedy is developed and implemented. The selected tank farm soils interim action is Institutional Controls with Surface Water Control. The remedial action objectives of this remedy are as follows:

- Restrict access to control exposure to workers and prevent exposure to the public from soils at the tank farm until implementation of the final remedy under OU 3-14
- Accommodate a once-in-25-year, 24-hour storm event through the use of surface water run-on diversion channels
- Minimize precipitation infiltration by grading and surface-sealing the tank farm soils sufficiently to divert 80% of the average annual precipitation falling on the tank farm soils area
- Improve exterior building drainage to direct water away from the contaminated areas.

Surveillance and maintenance tasks will continue from the previous year and are expected to end with the completion of the Tank Farm Closure project. Activities will include routinely inspecting the drainage systems and lift stations. Standard maintenance and operating procedures will be integrated into the INTEC documentation to provide proper maintenance during and after future operations or construction activities within the Tank Farm Interim Action area.

SP6 INTEGRATION AND COMPLIANCE

A.1.01.00.06.10 – INTEC-SP6 Integration and Compliance

The project management, engineering, administration, and control functions covered under this control account for the implementation of the WAG 3 Record of Decision, Federal Facilities Agreement and Consent Order, OU 3-13 RD/RA Statement of Work, and RD/RA work plans are level-of-effort.

INTEC-SP6 Integration & Compliance comprises the following work scope:

INTEC-SP6 Integration & Compliance

The integration and compliance scope for INTEC-SP6 includes the task management, integration, administration, resource management, training, professional development, certifications, travel, compliance coordination, and control functions necessary to implement the OU 3-13 Record of Decision for INTEC CERCLA remedial actions, VCO, deactivation, decontamination, and decommissioning, and monitoring requirements.

Compliance activities include coordination and integration of RCRA and CERCLA requirements between projects and regulators as well as integration of the principles established through the Integrated Safety Management System, Conduction of Operations, Conduct of Maintenance, and the Voluntary Protection Program.

INTEC Composite Analysis

The composite analysis will pull together the tank farm composite analysis and the ICDF composite analysis into a single evaluation. Then it will be expanded to include all sources for the development of an INTEC composite analysis. In future years, the composite analysis will be maintained as facilities are closed. Also, it will be updated annually as required by DOE Order 435.1.

End-State Implementation

End state implementation involves placing a final cap over the contaminated soils, structures, and buildings at INTEC following CERCLA remediation, RCRA closure, and deactivation, decontamination, and decommissioning. This scope includes the cap over CPP-659, west of CPP-659, north of CPP-659, and the soil cover portion over the Tank Farm. In addition, eight new aquifer wells will be installed for long-term monitoring. This includes all activities necessary to achieve the final INTEC end state prior to handing off monitoring to LTS.

DEACTIVATION, DECONTAMINATION, AND DECOMMISSIONING (INCLUDES RCRA CLOSURE)

A.1.01.00.06.DD - INTEC Facilities and Structures D, D & D

This work scope covers Tank Farm buildings, CPP-601 area, CPP-637 area, coal-fired boiler facilities, facilities end state, 2004-2020 Performance Management Plan (PMP) compliance, future facilities and bin sets.

Decontaminate and decommission the buildings and structures at INTEC within the Tank Farm area, as shown on the attached P-3 schedule. This scope does not include RCRA closure for the high-level waste tanks (scope included in Subproject 5). Appropriate deactivation, decontamination, and decommissioning documentation and plans will be prepared to safely perform the work and meet Nuclear Regulatory Commission (NRC) license agreements for the Three Mile Island (TMI)-2 Independent Spent Fuel Storage Installation and Spent Nuclear Fuel (SNF) Dry Storage Project (DSP). Decontamination and decommissioning will be performed on each facility such as equipment and component removal, building razing, foundation and footing removal, and site grading as appropriate end-state usage determines.

A.1.01.00.06.09 - FORT ST. VRAIN D, D & D

SP6 includes the activities needed to perform the deactivation, decontamination, and decommissioning of the Fort St. Vrain Independent Spent Fuel Storage Installation and related structures and facilities upon completion of the removal of the dry stored SNF from the Independent Spent Fuel Storage Installation. Appropriate deactivation, decontamination, and decommissioning documentation and plans will be prepared to safely [perform the work and meet NRC license agreements. Upon completion of these activities the property is expected to be able to be released for unrestricted use.

The work scope to be performed under SP6 includes the following activities: preparation and submittal of a Final Decommissioning Plan to the NRC; preparation and submittal of budgetary documentation; update and issuance of status reports; updates of approved Decommissioning Plan and interface with NRC; solicitation for demolition subcontractor; preparations and submittal of Decertification Document; perform radiological surveys of charge hall, shield plugs, vaults, and reception bay; decontamination of vaults; travel expenses related to oversight and support from INEEL; and completion of the demolition work scope by the subcontractor.

2. MAJOR PRODUCTS AND DELIVERABLES:

VOLUNTARY CONSENT ORDER

- Hazardous waste determinations
- Closure plans
- Closure reports and Professional Engineer certifications

CERCLA REMEDIATION

- Phase I Piping Evaluation Report
- Phase II Piping Evaluation and Testing Plan
- Phase II Piping Evaluation and Testing Report
- RD/RA Work Plans and Title design documentation
- Prefinal Inspection
- Final Inspection
- RA Reports
- Annual perched water monitoring reports
- Monitoring Report/Decision Summary
- Annual Groundwater Monitoring Report
- Closure reports and Professional Engineer certification

INTEC MONITORING

- Annual institutional controls monitoring report
- CERCLA 5-year review reports

SP6 INTEGRATION AND COMPLIANCE

- Monthly reports
- Annual work plan submittals
- Annual budget submittals
- Soil disturbance notifications
- INTEC composite analysis
- OU 3-13 Record of Decision Amendment
- RD/RA Work Plan and Title design documents
- Prefinal inspection
- Final inspection
- Remedial action report

Deactivation, Decontamination, and Decommissioning (Includes RCRA Closure)

- Deactivation, decontamination, and decommissioning plans
- RCRA Closure Plans
- DOE Order 435.1 Closure Plans
- Incidental Waste Determination
- Final deactivation, decontamination, and decommissioning reports
- RCRA Closure Certification

A.1.01.00.06.09 - FORT ST. VRAIN Deactivation, Decontamination, and Decommissioning

- Final Decommissioning Plan
- Demolition subcontract awarded
- Decertification document

3. ESTIMATE DEVELOPMENT BASIS:

VOLUNTARY CONSENT ORDER

Estimate Basis for Characterization Activities (Phase 1)

The *Voluntary Consent Order Phase 1 and Phase 2 Cost Estimate for FY-05 to Project End Life Cycle Plan* (INEEL/EXT-02-00022), dated April 2002; personal experience. The five cost/schedule templates considered are listed below for Verification of Empty (VOE) and Hazardous Waste Determination (HWD) activities:

- Template 1 VOE Non-Breach
- Template 2 VOE Breach Non-Rad Area
- Template 3 HWD Process Knowledge
- Template 4 HWD System Sample
- Template 5 VOE Rad System Breach.

Estimate Basis for Follow-on Action Activities (Phase 2)

The *Voluntary Consent Order Phase 1 and Phase 2 Cost Estimate for FY-05 to Project End Life Cycle Plan* (INEEL/External [EXT]-02-00022), dated April 2022; personal experience. The six cost/schedule templates considered are listed below for follow-on activities:

- Template 1 Tank System Isolation Only
- Template 2 Place Tank System on a RCRA Permit
- Template 3 Tank System Isolate and Flush
- Template 4 Moderate Tank System with a Formal RCRA Closure Plan
- Template 5 Complex Tank System with a Formal RCRA Closure Plan
- Template 6 Active Non-Hazardous System that will be Administratively Controlled by Others.

CERCLA REMEDIATION

The cost estimate was based on a number of estimation methods. Overall, the estimate was built using the bottoms-up method. Specific costs that were used for individual activities were based on historical information, engineering judgment, Sample and Analysis Management, current baseline planning, and price quotes. Wherever available, historical information and price quotes were used in preference to engineering judgment however, for certain activities particularly for unique activities, engineering judgment was the only viable method for an estimate. For some activities such as sampling analysis plan preparation a bottom's up estimate was prepared and then compared to historical costs. Environmental restoration cost estimating software was used for field restoration activities. For particular repetitive tasks unit costs were developed. This method is similar to crew costs methods; a unit cost is calculated based on volumes of soil. The basis for unit costs was price quotes, historical costs and engineering costs.

INTEC MONITORING

The method of calculating individual activities included crew-based calculations based on experience to date and, in some cases, professional judgment was used.

SP6 INTEGRATION AND COMPLIANCE

The method of calculating individual activities included crew-based calculations based on experience to date and, in some cases, professional judgment was used. The construction subcontract estimate was developed by using a bottom-up estimate using a variety of methods to calculate the cost of each individual activity.

DEACTIVATION, DECONTAMINATION, AND DECOMMISSIONING (INCLUDES RCRA CLOSURE)

The estimate is from deactivation, decontamination, and decommissioning Parametric Rough Order of Magnitude model. The deactivation, decontamination, and decommissioning Parametric Rough Order of Magnitude model was developed by the INEEL to produce long-term, defensible cost and waste volume estimates for future deactivation, decontamination, and decommissioning projects. In addition to estimating deactivation, decontamination, and decommissioning, the model was designed to estimate the cost for the volume of waste that will be generated during deactivation, decontamination, and decommissioning activities. The model generates facility or site-level reports on total estimated costs, annualized costs, and waste generation volumes.

A.1.01.00.06.09 - FORT ST. VRAIN Deactivation, Decontamination, and Decommissioning

The cost estimate was based on a number of estimation methods. Overall, the estimate was built using the bottoms-up method. Specific costs that were used for individual activities were based on historical information, engineering judgment, current baseline planning, and price quotes. Wherever available, historical information and price quotes were used in preference to engineering judgment however, for certain activities particularly for unique activities, engineering judgment was the only viable method for an estimate. For some activities such as sampling analysis plan preparation a bottom's up estimate was prepared and then compared to historical costs. For particular repetitive tasks unit costs were developed.

This method is similar to crew costs methods; a unit cost is calculated based on volumes of soil. The basis for unit costs was price quotes, historical costs and engineering costs.

4. ASSUMPTIONS:

- The vision of the Environmental Management PMP for Accelerating Cleanup of the Idaho National Engineering and Environmental Laboratory will be achieved. The key statements that affect SP6 are:
  - "By 2020, the INEEL will have completed all active cleanup work with potential to further accelerate cleanup to 2016."
  - "Coordinate tank farm soils remediation with tank closure actions and complete before 2020."
  - "Continuation of remediation at Idaho Nuclear Technology and Engineering Center will enable disposal of existing CERCLA stored waste and allow efficient INEEL CERCLA Disposal Facility operations."
  - "Complete removal of soils destined for the INEEL CERCLA Disposal Facility by September 2013."
- The OU 3-13 Group 2 and Group 3 RD/RA work plans will address the final INTEC end state and be within the Remedial Action Objectives of the OU 3-13 Record of Decision. Therefore, an additional Record of Decision will not be required (exclusive of the OU 3-14 Record of Decision which deals with the Tank Farm).
- SP6 remediation will not be delayed by other INTEC activities including, but not limited to, footprint reduction and operations.
- All SP6 CERCLA waste will be disposed in the ICDF if generated prior to September 2013.
- RCRA and CERCLA regulatory agencies never integrate.
- Transfer to LTS is as follows:
  - Group 2 – WAG 3 Institutional Controls until remediation complete, then transfer to LTS
  - Group 3 – WAG 3 Institutional Controls until remediation complete, then transfer to LTS
  - Group 4 – implement contingent remediation, then transfer to LTS
  - Group 5 – complete remedial action, then transfer to LTS in FY 2005
  - Group 6 – WAG 3 Institutional Controls until remediation complete, no LTS since clean closure
  - Group 7 – WAG 3 Institutional Controls until remediation complete, no LTS since clean closure
- The 50% VCO SITE-TANK-005 characterization milestone will be completed in FY 2003.
- deactivation, decontamination, and decommissioning of structures over Group 2 sites will be through the Federal Facility Agreement and Consent Order and follow the cleanup criteria in the OU 3-13 Record of Decision. Therefore, the following facilities/structures will require preparation and agency approval of an RD/RA Work Plan prior to deactivation, decontamination, and decommissioning:
  - CERCLA site CPP-80 is located under building CPP-601
  - CERCLA site CPP-86 is located under building CPP-602
  - CERCLA site CPP-02 is located under building CPP-603
  - CERCLA site CPP-87 is located under building CPP-604
  - CERCLA site CPP-89 is located under building CPP-604/-605
  - CERCLA site CPP-85 is located under building CPP-633
  - CERCLA site CPP-60 is located under building CPP-645

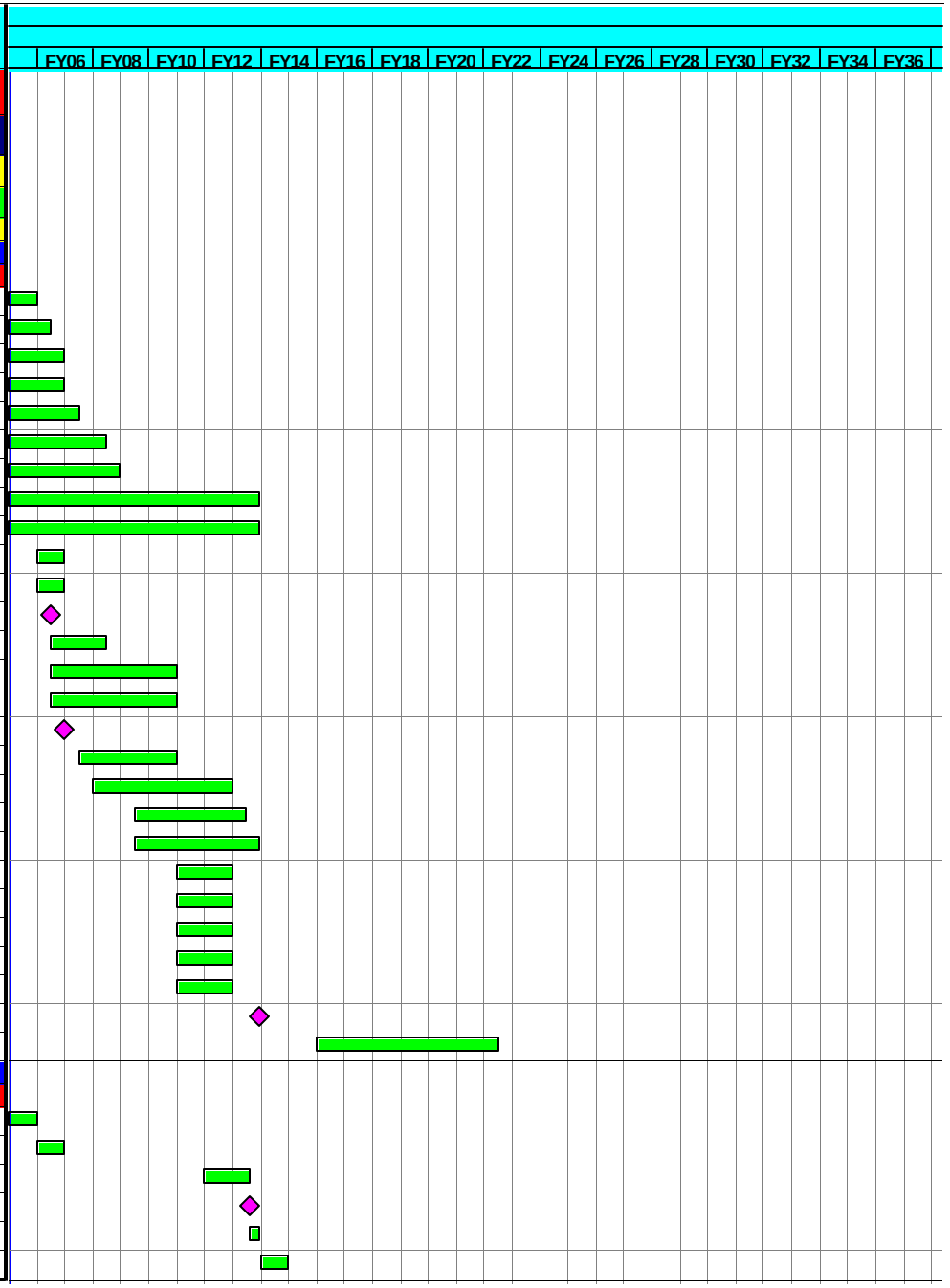
- Remediation waste from the OU 3-13 Group 2 sites and associated facilities will not be disposed in the ICDF landfill. According to the PMP, the ICDF landfill will have received all waste by September 2013, which is prior to starting remediation of the OU 3-13 Group 2 sites.
- The RD/RA Work Plans for each Group 2 site will contain both the deactivation, decontamination, and decommissioning plan for the building and the plan for remediation of the soil site beneath the building.
- The OU 3-13 Group 2 sites are not considered active remediation under the PMP and will not be completed by 2020.
- The OU 3-13 Group 2 and Group 3 RD/RA Work Plans s will address the final INTEC end state and not require an additional Record of Decision (exclusive of the OU 3-14 Record of Decision that deals with the Tank Farm).
- The DOE Order 413.3 requirements will be met within the existing planning documents and are not expected to impact project schedule. The DOE Order 413.3 process will be mutually agreed between DOE and the contractor.
- New soil release sites will be remediated under Group 3 until ICDF closes in September 2013. Post-2013, new release sites will be addressed through the Group 2 RD/RA work plan.
- Remediation activities will be scheduled to satisfy the requirements given in the PMP to place all soils into the ICDF by September 2013.
- The commitments in the Environmental Management Performance Management Plan for Accelerating Cleanup of the Idaho National Engineering and Environmental Laboratory will be met. Namely, the commitments are
  - Continuation of remediation at Idaho Nuclear Technology and Engineering Center will enable disposal of existing CERCLA stored waste and allow efficient INEEL CERCLA Disposal Facility operations.
  - Complete removal of soils destined for the INEEL CERCLA Disposal Facility by September 2013.
- Contingent remedial action(s), which involves lining the Big Lost River, will be required and will be effective and will meet the OU 3-13 Record of Decision Remedial Action Objectives.
- A contingent pump and treat remedial action for the Snake River Plain Aquifer will not be required.
- OU 3-14 will address the INTEC injection well and the final WAG 3 groundwater decision.
- No maintenance is required under deactivation, decontamination, and decommissioning since the contaminated facilities will transition directly into deactivation.
- Institutional controls under CERCLA will be maintained until 2095.
- Utilities (electrical and water) will be available through 2031. Beyond 2031, deactivation, decontamination, and decommissioning will be responsible to provide the required utilities.
- No change in the current land use will occur at INTEC throughout the institutional control period (i.e., 2095).
- There will be no significant changes to the remediation goals established in the Record of Decision or changes in the Baseline Risk Assessment, which would decrease site management, inspection, and facility integration requirements.
- The OU 3-13 Record of Decision amendment and a single RD/RA Work Plans will address the final INTEC end state and not require an additional Record of Decision (exclusive of the OU 3-14 Record of Decision that deals with the Tank Farm).
- The contaminated piping outside of the buildings and structures will be flushed to remove the majority of the contaminants and then grouted in place. No attempt will be made to remove the contaminated piping outside of the buildings and structures.

- The buildings to have contamination left in place and grouted in place include CPP-601, -602, -603, -604, -605, -627, -633, -640, -649, and -659.
- In accordance with the Group 2 RD/RA Work Plan, a landfill cap will be placed over the buildings where contamination is left behind and that are also over a CERCLA release site (i.e., CPP-601, -602, -603, -604, -605, and -649.
- RCRA closure will be required for CPP-601, -602, -603, -604, -605, -627, -637, -640, -641, -646, -647, -648, -649, -658, -659, -663, -666, -671, -673, -684, -694, -1615, -1617, -1618, -1619, –1659, and facilities to be built in the future (Caledina Retrieval and Packaging, SBW Packaging, MACT, NGLW, SNFDSP, and modular addition).
- The stainless steel calcine bin sets will be placed in an on-site landfill located in the vicinity of the Tank Farm and included under the final INTEC cap.
- The SNF DSP will be emptied, stabilized, deactivation, decontamination, and decommissioning completed, and the NRC license vacated as soon as possible.
- Decommissioning of the Fort St. Vrain Independent Spent Fuel Installation, the TMI-2 Independent Spent Fuel Storage Installation, and the SNFDSP includes NRC involvement. Submittal of the Decommissioning Plan will include termination of the facility license.
- Long-term monitoring at INTEC will require the installation of eight new Snake River Plain aquifer monitoring wells beginning in 2032. These wells correspond to three downgradient and one upgradient from the northern caps (Tank Farm area) and the southern cap (CPP-603).

5. SCIENCE AND TECHNOLOGY NEEDS

Science and Technology Need Number	Science and Technology Need Description
None Identified	

Activity ID	Activity Description	Early Start	Early Finish
INEEL			
EM Project			
INTEC Completion			
INTEC Completion			
CPP-SP6 Excess Facilities Disposition & D&D			
VCO SITE-TANK-005 INTEC			
VCO SITE-TANK-005 INTEC			
6LCADJ01	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
6LVC040	VCO SITE-TANK-005 Perf HWD On 75% TANKS	01OCT03	31MAR05
6LVC110	INTEC-049(Process Equipment Waste Evaporator) SC	01OCT03	30SEP05
6LVC145	INTEC-095 (Service Waste System) SC	01OCT03	30SEP05
6LVC085	VCO Resolve IDEQ Comments Tanks Characterized	01OCT03	31MAR06
6LVC065	VCO INTEC--071(Bulk Acid Storage System) RCRA Cl	01OCT03*	30MAR07
6LVC150	VCO INTEC Remaining Follow on Actions	01OCT03	28SEP07
6LVC039	VCO INTEC Point of Contact-LOE	01OCT03	28SEP12
6LVC060	VCO Complete Interim Actions for all tanks	01OCT03*	28SEP12
6LCADJ02	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
6LVC050	VCO SITE-TANK-005 Perf HWD On 100% TANKS	01OCT04*	30SEP05
6LV00055	VCO HWD on 75% tanks Complete - Link		31MAR05
6LVC115	INTEC-074(FAST Liquid Waste Management System) S	01APR05*	30MAR07
6LVC070	VCO INTEC-072 (FAST Cooling & Heating Water Syst	01APR05*	30SEP09
6LVC075	VCO INTEC-061 (FAST Fluorinel Dissolution) RCRA	01APR05*	30SEP09
6LV00065	VCO HWD on 100% tanks Complete - Link		30SEP05
6LVC080	VCO INTEC-081 (New Waste Calcining FSS Tank) RCR	03APR06*	30SEP09
6LVC085	VCO INTEC-601 (Lines to Tank Farm) RCRA Closure	02OCT06*	30SEP11
6LVC090	VCO INTEC-601-1,2,3,5 RCRA Closure	01APR08*	30MAR12
6LVC077	VCO INTEC-055 (Rare Gas Plant North Gas C.) RCRA	01APR08*	28SEP12
6LVC120	INTEC-087 (30-cm Calciner Pilot Plant System) SC	01OCT09*	30SEP11
6LVC125	INTEC-088 (Acid Fractionator Pilot Plant System)	01OCT09*	30SEP11
6LVC130	INTEC-089 (Calcine Grinding Setup System) SC	01OCT09*	30SEP11
6LVC135	INTEC-090 (Fluorinel Pilot Plant System) SC	01OCT09*	30SEP11
6LVC140	INTEC-091 (Cold Feed Makeup and Dissolution) SC	01OCT09*	30SEP11
6LV00067	Complete VCO Activities for INTEC SP 6 Project		28SEP12
6LCADJ03	FY06 to FY12 Contingency Adjustment (+75% FY05)	01OCT14*	31MAR21
INTEC CERCLA Remediation of Soils Under Building			
Group 2 CPP-601/602 D&D/CERCLA Remediation			
6LCADJ21	FY-04 Contingency Adjustment (zero out)	01OCT03*	29SEP04
6LCADJ04	FY-05 Contingency Adjustment (-75%)	01OCT04*	30SEP05
6LE21020	Group 2 Prepare CPP 601/602 RD/RAWP	01OCT10*	22MAY12
6LE21025	Group 2 CPP 601/602 dft RD/RAWP sent to EPA/IDEQ		22MAY12
6LE21030	Finalize Group 2 CPP 601/602 RD/RAWP	23MAY12	26SEP12
6LE21035	Conduct Group 2 CPP 601Characterization	01OCT12	27SEP13



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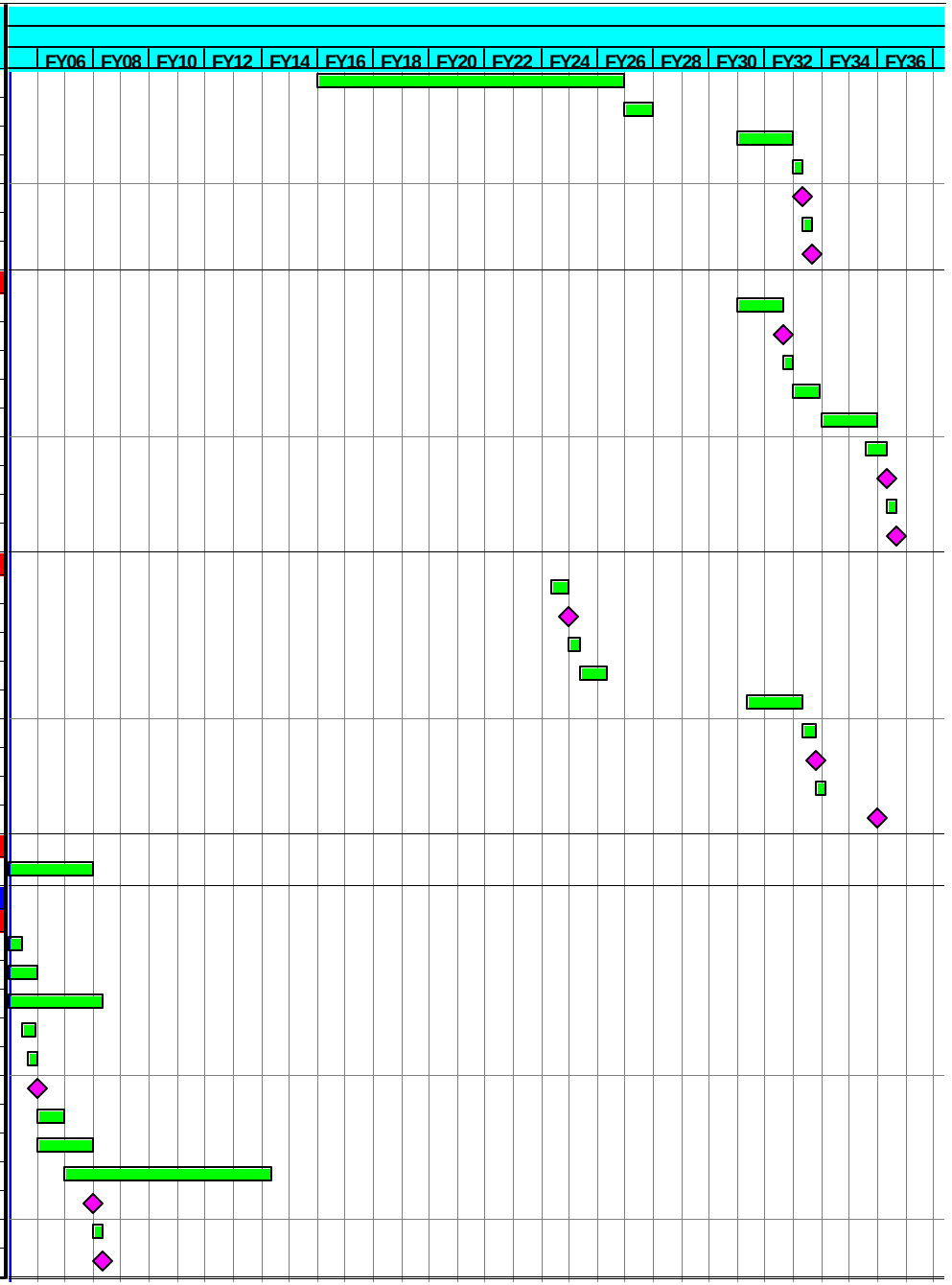
Activity ID	Activity Description	Early Start	Early Finish
6LCADJ05	FY15 to FY25 Contingency Adjustment (+75% FY05)	01OCT14*	30SEP25
6LE21037	Conduct Group 2 CPP 602 Characterization	01OCT25	29SEP26
6LE21040	Conduct Gp 2 CPP 601/602 Remedial Actions/CAP	01OCT29	29SEP31
6LE21045	Group 2 CPP 601/602 Closure Activities/CAP CQA	30SEP31	12FEB32
6LE21050	Group2 CPP601/602 dft RA Report sent to EPA/IDEQ		12FEB32
6LE21055	Finalize Group 2 CPP 601/602 RA Report	13FEB32	16JUN32
6LE21060	Group 2 CPP 601/602 D&D/CERCLA RA Complete - LTS		16JUN32
Group 2 CPP-604/605/649 D&D/CERCLA Remediation			
6LE24020	Group 2 Prepare CPP-604/605/649RD/RAWP	01OCT29	22MAY31
6LE24025	CPP-604/605/649 dft RD/RAWP sent to EPA/IDEQ		22MAY31
6LE24030	Finalize Group 2 CPP-604/605/649 RD/RAWP	23MAY31	26SEP31
6LE24035	Conduct Gp 2 CPP 604/605/649 Characterization	29SEP31	24SEP32
6LE24040	Conduct CPP-604/605/649 Remedial Actions/CAP	27SEP32	25SEP34
6LE24045	Group 2 CPP-604/605/649 Closure Activities & CQA	18MAY34	08FEB35
6LE24050	CPP-604/605/649 dft RA Report sent to EPA/IDEQ		08FEB35
6LE24055	Finalize Group 2 CPP-604/605/649 RA Report	09FEB35	13JUN35
6LE24060	CPP-604/605/649 D&D/CERCLA RA Complete - LTS		13JUN35
Group 2 CPP-603 D&D/CERCLA Remediation			
6LE23020	Group 2 Prepare CPP 603 RD/RAWP	10FEB23	02OCT23
6LE23025	Group 2 CPP 603 dft RD/RAWP sent to EPA/IDEQ		02OCT23
6LE23030	Finalize Group 2 CPP 603 RD/RAWP	03OCT23	13FEB24
6LE23035	Conduct CPP-603 Characterization	14FEB24	11FEB25
6LE23040	Conduct Gp 2 CPP 603 Remedial Actions/CAP	13FEB30	12FEB32
6LE23045	Group 2 CPP 603 Closure Activities/CAP CQA	13FEB32	02AUG32
6LE23050	Group 2 CPP 603 dft RA Report sent to EPA/IDEQ		02AUG32
6LE23055	Finalize Group 2 CPP 603 RA Report	03AUG32	07DEC32
6LE23060	Group 2 CPP 603 D&D/CERCLA RA Complete - LTS		28SEP34
Group 2 Pre-Remediation CERCLA Activities			
6LE21007	Group 2 Piping Evaluation	01OCT03*	29SEP06
INTEC CERCLA Remediation of Other Surface Soils			
Group 3 Set 1 Sites CERCLA Remediation			
6LE31005	Finalize Group 3 Phase 1 RD/RA Work Plan	01OCT03	15MAR04
6LCADJ06	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
6LE31001	Group 3 Remediation Set 1 Hammock	01OCT03	07FEB07
6LE31010	ER Gp 3 Rem Set 1 Sampling & Analysis	16MAR04	03SEP04
6LE31015	ER Gp 3 Schedule Set 1 Waste Shipment to SSSTF	09JUN04	30SEP04
6LE31020	Begin Disposition of Gp-3 Set 1 Waste to SSSTF	01OCT04	
6LCADJ07	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
6LE31025	ER Gp3 Set 1 SSSTF Waste Treatment & Disposal	01OCT04	29SEP06
6LCADJ08	FY15 to FY25 Contingency Adjustment (+75% FY05)	03OCT05	21FEB13
6LE31030	End Disposition of Gp-3 Set 1 Waste at SSSTF		29SEP06
6LE31040	ER Gp3 Set 1 Closeout Activities	02OCT06	07FEB07
6LE31045	ER Gp3 Remediation Set 1 Closed		07FEB07



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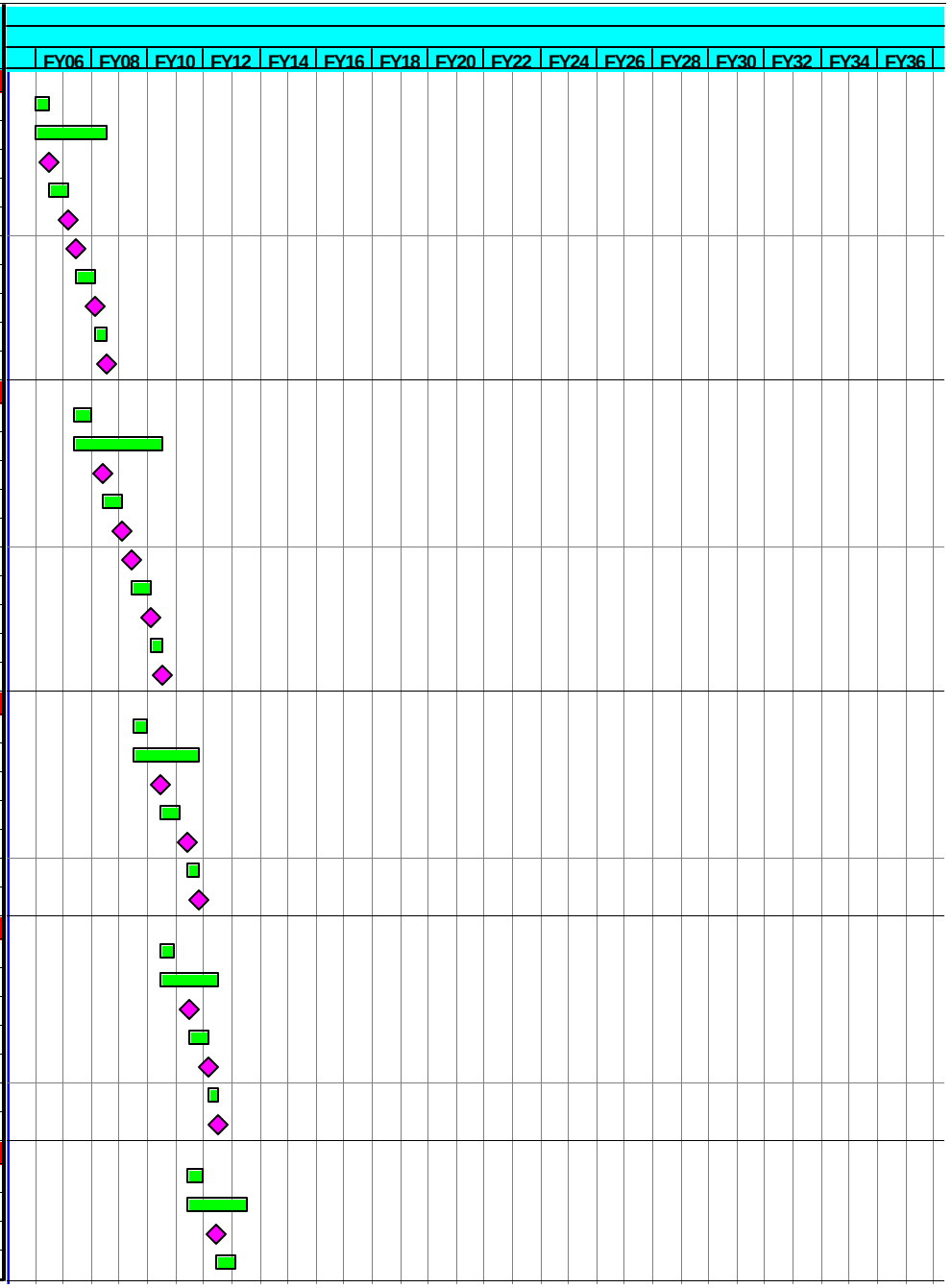
Activity ID	Activity Description	Early Start	Early Finish
Group 3 Set 2 Sites CERCLA Remediation			
6LE32010	ER Gp3 Set 2 Field Sampling & Characterization	01OCT04*	24MAR05
6LE32001	Group 3 Remediation Set 2 Hammock	01OCT04	11APR07
6LE32020	Begin Disposition of Gp-3 Set 2 Phase 1 to ICDF	25MAR05	
6LE32025	ER Gp3 Set 2 Perform Remediation Phase 1	25MAR05	01DEC05
6LE32030	End Disposition of Gp-3 Set 2 Phase 1 at ICDF		01DEC05
6LE32120	Begin Disposition of Gp-3 Set 2 Phase 2 to ICDF	13MAR06	
6LE32125	ER Gp3 Set 2 Perform Remediation Phase 2	13MAR06	15NOV06
6LE32130	End Disposition of Gp-3 Set 2 Phase 2 at ICDF		15NOV06
6LE32040	ER Gp3 Set 2 Closeout Activities	16NOV06	11APR07
6LE32045	ER Gp3 Remediation Set 2 Closed		11APR07
Group 3 Set 3 Sites CERCLA Remediation			
6LE33010	ER Gp3 Set 3 Field Sampling & Characterization	01MAR06*	26SEP06
6LE33001	Group 3 Remediation Set 3 Hammock	01MAR06	13APR09
6LE33020	Begin Disposition of Gp-3 Set 3 Phase 1 to ICDF	06MAR07	
6LE33025	ER Gp3 Set 3 Perform Remediation Phase 1	06MAR07	08NOV07
6LE33030	End Disposition of Gp-3 Set 3 Phase 1 at ICDF		08NOV07
6LE33120	Begin Disposition of Gp-3 Set 3 Phase 2 to ICDF	12MAR08	
6LE33125	ER Gp3 Set 3 Perform Remediation Phase 2	12MAR08	14NOV08
6LE33130	End Disposition of Gp-3 Set 3 Phase 2 at ICDF		14NOV08
6LE33040	ER Gp3 Set 3 Closeout Activities	17NOV08	13APR09
6LE33045	ER Gp3 Remediation Set 3 Closed		13APR09
Group 3 Set 4 Sites CERCLA Remediation			
6LE34010	ER Gp3 Set 4 Field Sampling & Characterization	01APR08*	25SEP08
6LE34001	Group 3 Remediation Set 4 Hammock	01APR08	04AUG10
6LE34020	Begin Disposition of Gp-3 Set 4 waste to ICDF	19MAR09	
6LE34025	ER Gp3 Set 4 Perform Remediation	19MAR09	23NOV09
6LE34030	End Disposition of Gp-3 Set 4 Waste at ICDF		18MAR10
6LE34040	ER Gp3 Set 4 Closeout Activities	19MAR10	04AUG10
6LE34045	ER Gp3 Remediation Set 4 Closed		04AUG10
Group 3 Set 5 Sites CERCLA Remediation			
6LE35010	ER Gp3 Set 5 Field Sampling & Characterization	01APR09*	25SEP09
6LE35001	Group 3 Remediation Set 5 Hammock	01APR09	22APR11
6LE35020	Begin Disposition of Gp-3 Set 5 waste to ICDF	25MAR10	
6LE35025	ER Gp3 Set 5 Perform Remediation	25MAR10	01DEC10
6LE35030	End Disposition of Gp-3 Set 5 Waste at ICDF		01DEC10
6LE35040	ER Gp3 Set 5 Closeout Activities	02DEC10	22APR11
6LE35045	ER Gp3 Remediation Set 5 Closed		22APR11
Group 3 Set 6 Sites CERCLA Remediation			
6LE36010	ER Gp3 Set 6 Field Sampling & Characterization	18MAR10*	13SEP10
6LE36001	Group 3 Remediation Set 6 Hammock	18MAR10	09APR12
6LE36020	Begin Disposition of Gp-3 Set 6 waste to ICDF	10MAR11	
6LE36025	ER Gp3 Set 6 Perform Remediation	10MAR11	14NOV11



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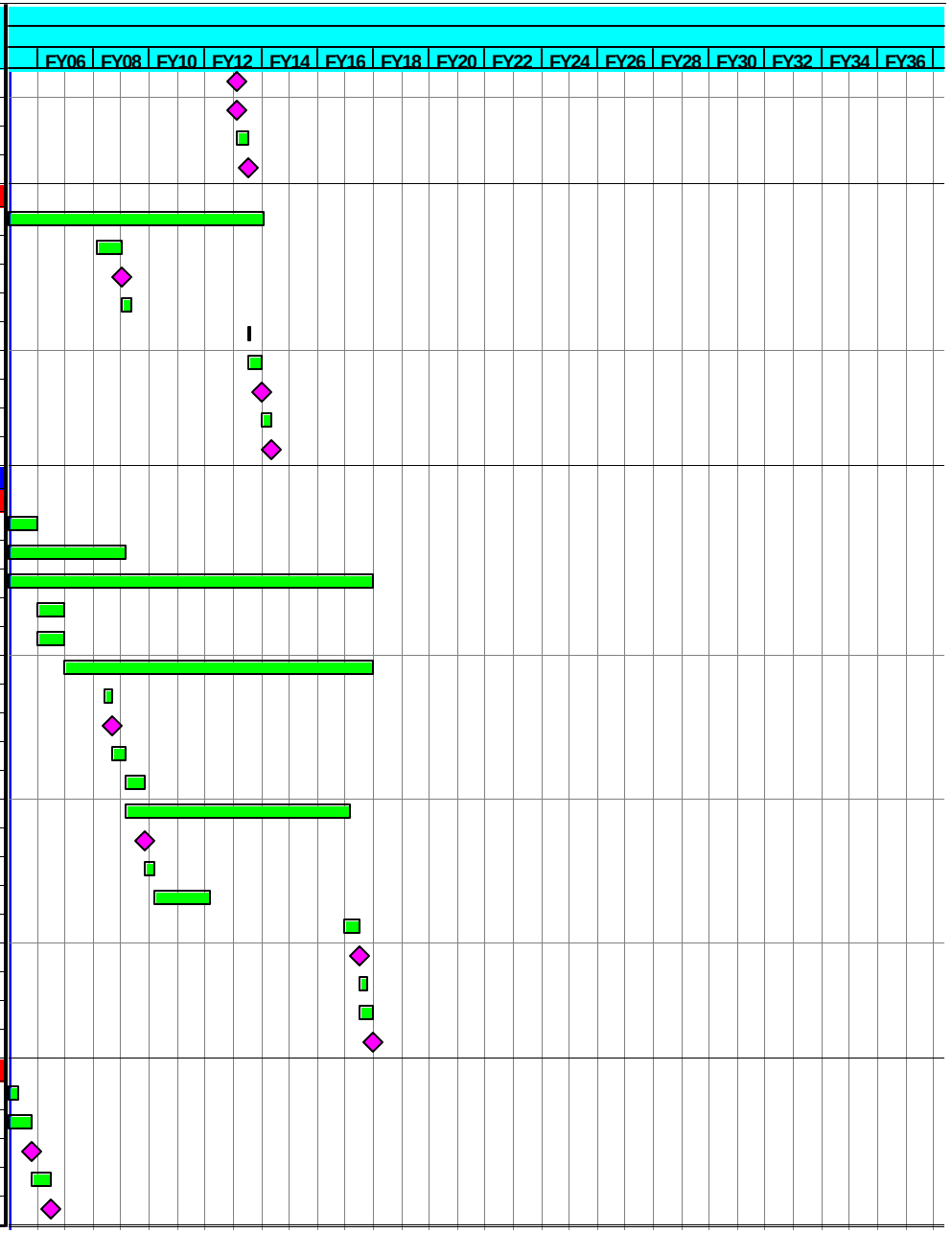
Activity ID	Activity Description	Early Start	Early Finish
6LE36030	End Disposition of Gp-3 Set 6 Waste at ICDF		14NOV11
6LE3825	PMP Key MS - Complete removal of soils to ICDF		14NOV11
6LE36040	ER Gp3 Set 6 Closeout Activities	15NOV11	09APR12
6LE36045	ER Gp3 Remediation Set 6 Closed		09APR12
Group 3 CERCLA Documentation and Integration			
6LE30022	Group 3 Project Support	01OCT03*	15NOV12
6LE30020	Prepare Group 3 Phase 2 RD/RA Work Plan	29NOV06*	16OCT07
6LE30025	OU 3-13 Gp 3 Dft Ph 2 RD/RA WP Sent to EPA/DEQ		16OCT07
6LE30030	Finalize OU 3-13 Group 3 Phase 2 RD/RA WP	17OCT07	27FEB08
6LE38005	Perform Group 3 Final Inspection	10APR12	16MAY12
6LE38010	Prepare Group 3 RA Report	10APR12	15OCT12
6LE38015	OU 3-13 Group 3 RA Report Sent to EPA/DEQ		15OCT12
6LE38020	Finalize OU 3-13 Group 3 RA Report	16OCT12	22FEB13
6LE38030	Group 3 Soil Remediation Complete		22FEB13
INTEC CERCLA Groundwater Remediation			
Group 4 Perched Water CERCLA Remediation			
6LCADJ09	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
6LE40015	Group 4 Monitor Perched Water Zones (Phase 2)	01OCT03	04DEC07
6LE40001	Group 4 Remediation Hammock	01OCT03	03OCT16
6LE40010	Install 8 INTEC Perched water monitoring wells	01OCT04*	23SEP05
6LCADJ10	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
6LCADJ11	FY06 to FY16 Contingency Adjustment (+75% FY05)	03OCT05*	30SEP16
6LE40020	Prepare Group 4 MRDS	01MAR07	13JUN07
6LE40025	OU 3-13 Group 4 draft MRDS Sent to EPA/DEQ		13JUN07
6LE40030	Finalize OU 3-13 Group 4 MRDS Report	14JUN07	04DEC07
6LE40035	Prepare Gp 4 dft RD/RAWP for Contingent Remedy	05DEC07	31JUL08
6LE40055	Gp-4 Cont. Rem. Monitor Perched Water Zones	05DEC07	03DEC15
6LE40040	Submit Gp 4 dft CR RD/RAWP to EPA/DEQ		31JUL08
6LE40045	Finalize OU 3-13 Group 4 CR RD/RAWP	01AUG08	03DEC08
6LE40050	Implement Gp-4 Contingent Remedy	04DEC08	03DEC10
6LE40060	Prepare Group 4 Contingent Remedy MRDS	01OCT15	28MAR16
6LE40065	OU 3-13 Group 4 CR MRDS Sent to EPA/DEQ		28MAR16
6LE40070	Finalize OU 3-13 Group 4 CR MRDS Report	29MAR16	28JUL16
6LE40075	Gp-4 Closeout Activities	29MAR16	30SEP16
6LE40080	OU 3-13 Group 4 S&M to LTS - Link		03OCT16
Group 5 Snake River Plain Aquifer CERCLA Remedy			
6LE50005	Finalize Group 5 MRDS	01OCT03	11FEB04
6LE50010	Group 5 Annual Groundwater Monitoring Rpt Prep	01OCT03	03AUG04
6LE50013	OU 3-13 Group 5 Monitoring Rpt Sent to EPA/DEQ		03AUG04
6LE50015	Gp-5 Closeout Activities	04AUG04	31MAR05
6LE50020	Group 5 INTEC SRPA Groundwater Monitoring to LTS		01APR05



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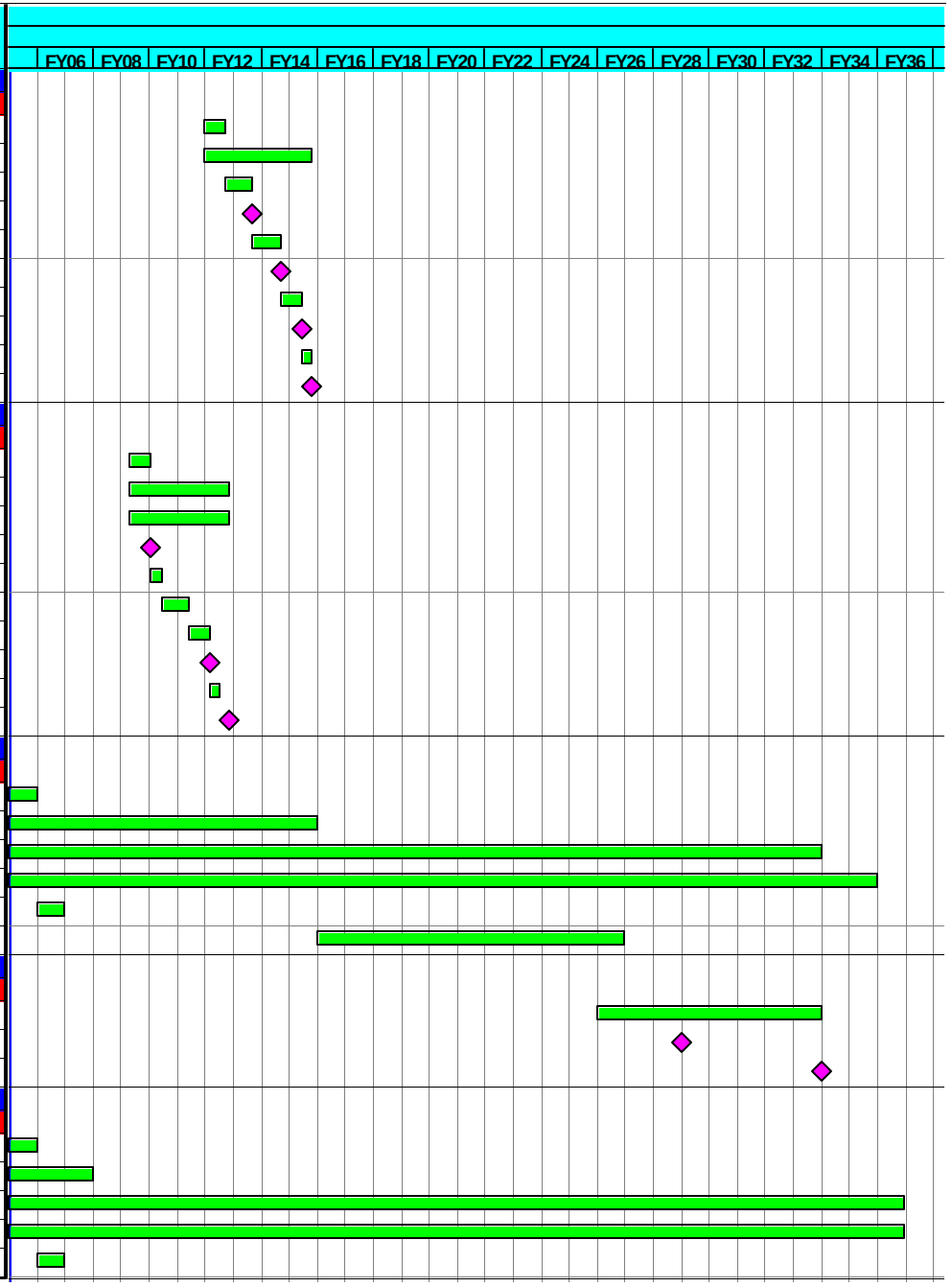
Activity ID	Activity Description	Early Start	Early Finish
INTEC CERCLA Remediation of Gas Cylinder Sites			
Group 6 Gas Cylinder Sites CERCLA Remediation			
6LE60005	Update OU 3-13 Group-6 RD/RA WP	01OCT10*	21JUN11
6LE60001	OU 3-13 Group-6 Remediation Hammock	01OCT10	17JUL14
6LE60020	Group-6 Retrieve/Dispose CPP-84 Gas Cylinders	22JUN11	20JUN12
6LE60025	Begin Disposition of Group-6 Soil to ICDF	21JUN12	
6LE60030	Group-6 Soil Remediation from CPP-84 & CPP-94	21JUN12	20JUN13
6LE60035	End Disposition of Group-6 Soil at ICDF		20JUN13
6LE60040	Gp-6 Closeout Activities	21JUN13	13MAR14
6LE60055	OU 3-13 Group 6 dft RA Report sent to EPA/DEQ		13MAR14
6LE60060	Finalize OU 3-13 Group-6 RA Report	14MAR14	17JUL14
6LE60065	Group-6 CERCLA Remediation Complete		17JUL14
INTEC CERCLA Remediation of SFE-20 Hot Waste Tan			
Group 7 SFE-20 Hot Waste Tank CERCLA Remediation			
6LE70005	Group 7 Revise SFE-20 draft RD/RAWP	01FEB08*	21OCT08
6LE70000	Group-7 SFE-20 Tank Remediation Hammock	01FEB08	24AUG11
6LE70022	Group 7 Project Support	01FEB08	24AUG11
6LE70010	Group 7 SFE-20 dft RD/RAWP sent to EPA/DEQ		21OCT08
6LE70015	Finalize Group 7 SFE-20 RD/RAWP	22OCT08	18MAR09
6LE70020	Conduct Group 7 SFE-20 Remedial Actions	19MAR09	18MAR10
6LE70025	Gp-7 Closeout Activities	19MAR10	02DEC10
6LE70030	Group 7 SFE-20 Dft RA Report sent to EPA/DEQ		02DEC10
6LE70035	Finalize Group 7 SFE-20 RA Report	03DEC10	12APR11
6LE70040	Group 7 SFE-20 Remedial Actions Complete		24AUG11
INTEC Monitoring			
INTEC Monitoring			
6LCADJ12	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
6LE80040	Group 1 Tank Farm Interim Action Monitoring	01OCT03	30SEP14
6LE80015	Pre-D&D INTEC S&M	01OCT03*	29SEP32
6LE80010	INTEC CERCLA Institutional Controls Pre-LTS	01OCT03	28SEP34
6LCADJ13	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
6LCADJ14	FY15 to FY25 Contingency Adjustment (+75% FY05)	01OCT14*	30SEP25
FSV D&D			
FSV D&D			
6LS38001	FSV D&D	01OCT24	29SEP32
6LS38003	Final D&D Plan for FSV approved by NRC		30SEP27*
6LS38005	Complete D&D of FSV ISFSI		29SEP32
INTEC SP6 Project Integration & Compliance			
INTEC SP6 Integration & Compliance			
6LCADJ15	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
6LMG0SSA	INTEC CERCLA SSA Operations & Maintenance	01OCT03	29SEP06
6LMG0010	INTEC Composite Analysis & Annual Update	01OCT03	28SEP35
6LMG0020	PBS-A SP-6 Integration & Compliance	01OCT03	28SEP35
6LCADJ16	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05



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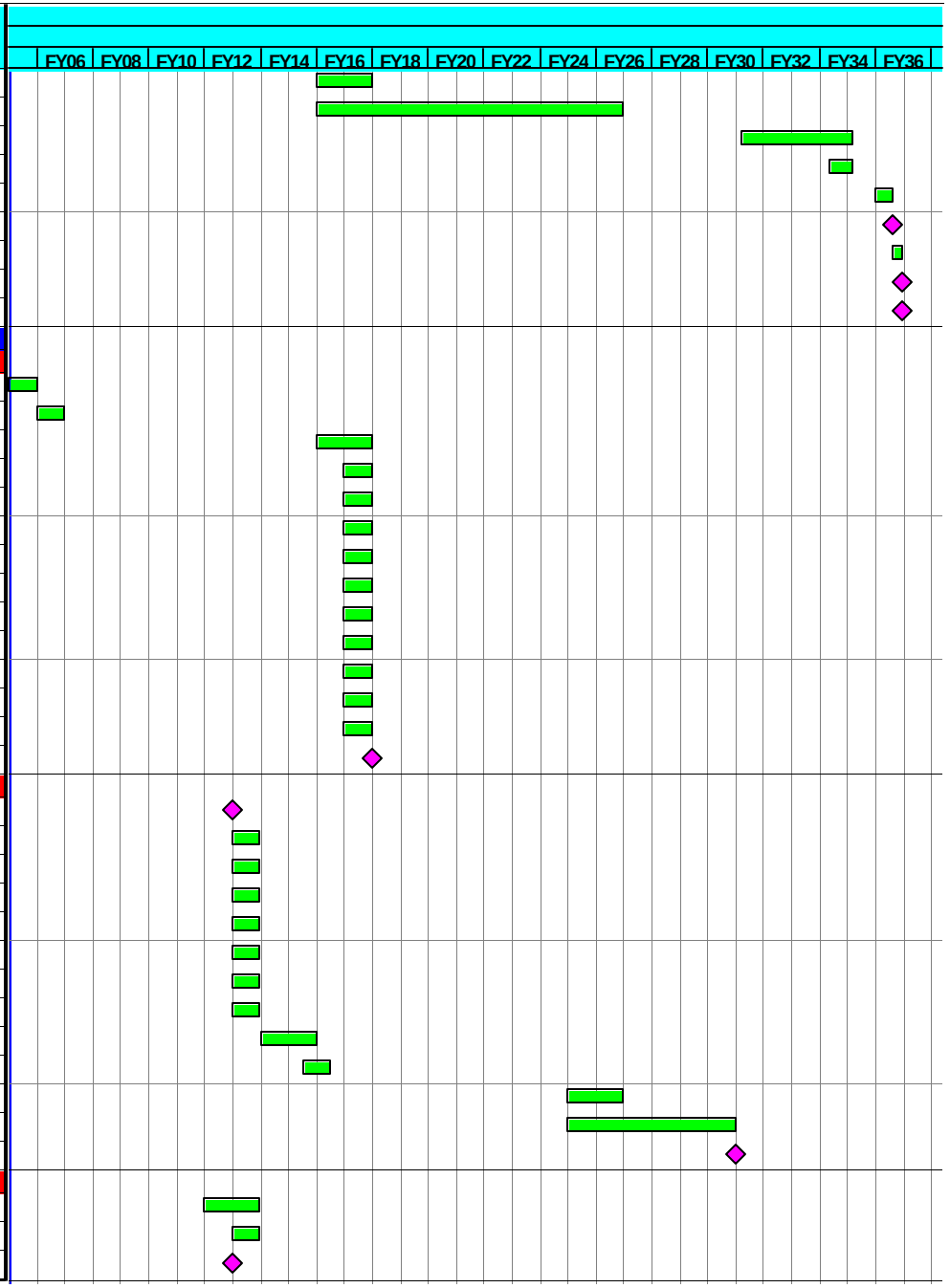
Activity ID	Activity Description	Early Start	Early Finish
6LMG0045	OU 3-13 Record of Decision Ammendment	01OCT14*	28SEP16
6LCADJ17	FY15 to FY25 Contingency Adjustment (+75% FY05)	01OCT14*	30SEP25
6LMG0050	PBS-A INTEC End State Implementation 659 Area	06DEC29	05DEC33
6LMG0055	PBS-A INTEC Install 8 new LTS Monitoring Wells	22FEB33	05DEC33
6LMG0060	Prepare Dft INTEC Comprehensive CERCLA RA Report	02OCT34	23MAY35
6LMG0070	INTEC Comp CERCLA Dft RA Report sent to EPA/IDEQ		23MAY35
6LMG0080	Finalize INTEC Comprehensive CERCLA RA Report	24MAY35	27SEP35
6LMG0090	INTEC CERCLA Remedial Actions Complete		28SEP35
6LMGEND	INTEC Lifecycle Finish Milestone FY2035		28SEP35
INTEC D&D			
D&D Tank Farm Buildings			
6LCADJ18	FY-04 Contingency Adjustment (zero out)	01OCT03	30SEP04
6LCADJ19	FY-05 Contingency Adjustment (-75%)	01OCT04	30SEP05
6LCADJ20	FY15 to FY16 Contingency Adjustment (+75% FY05)	01OCT14*	30SEP16
6LD00618	D&D CPP-618 Tank Farm Measures/Controls	01OCT15	30SEP16
6LD00619	D&D CPP-619 Waste Storage Control House	01OCT15	30SEP16
6LD00622	D&D CPP-622 Tank Farm Instrument House	01OCT15	30SEP16
6LD00623	D&D CPP-623 Tank Farm Instrument House	01OCT15	30SEP16
6LD00628	D&D CPP-628 Tank Farm Control House	01OCT15	30SEP16
6LD00632	D&D CPP-632 Instrument House	01OCT15	30SEP16
6LD00634	D&D CPP-634 Waste Station Wm-185	01OCT15	30SEP16
6LD00635	D&D CPP-635 Waste Station Wm-187-188	01OCT15	30SEP16
6LD00636	D&D CPP-636 Waste Station Wm-189-190	01OCT15	30SEP16
6LD00638	D&D CPP-638 Waste Station Wm-180	01OCT15	30SEP16
6LD0END	INTEC CERCLA Remedial Actions Complete		30SEP16
INTEC D&D CPP-601 Area			
6LD1BEG	Begin INTEC D&D CPP-601 Area	03OCT11*	
6LD10710	D&D CPP-710 Solvent Storage Building	03OCT11	28SEP12
6LD10750	D&D CPP-750 Service Waste Div. Pump Station	03OCT11	28SEP12
6LD10751	D&D CPP-751 Service Waste Monitor Station	03OCT11	28SEP12
6LD10752	D&D CPP-752 Service Waste Div. Station	03OCT11	28SEP12
6LD10753	D&D CPP-753 Service Waste Monitor Station	03OCT11	28SEP12
6LD10754	D&D CPP-754 Service Waste Div. Station	03OCT11	28SEP12
6LD1753A	D&D CPP-753A Service Waste Monitor Station	03OCT11	28SEP12
6LD11786	D&D CPP-1786 Transformer Area At CPP-602	02OCT12	30SEP14
6LD10685	D&D CPP-685 Safeguard Data Acquisition	04APR14	02APR15
6LD10630	D&D CPP-630 Safety/Spectrometry	02OCT23	30SEP25
6LD10602	DD&D CPP-602 Laboratory/Office Bldg	02OCT23	28SEP29
6LD1END	Completed INTEC D&D CPP-601 Area		28SEP29
INTEC D&D CPP-637 Area			
6LD20651	D&D CPP-651 Unirad. Fuel Storage Facility	01OCT10	27SEP12
6LD21616	D&D CPP-1616 Glass Shop Storage	30SEP11	27SEP12
6LD2BEG	Begin INTEC D&D CPP-637 Area	03OCT11*	



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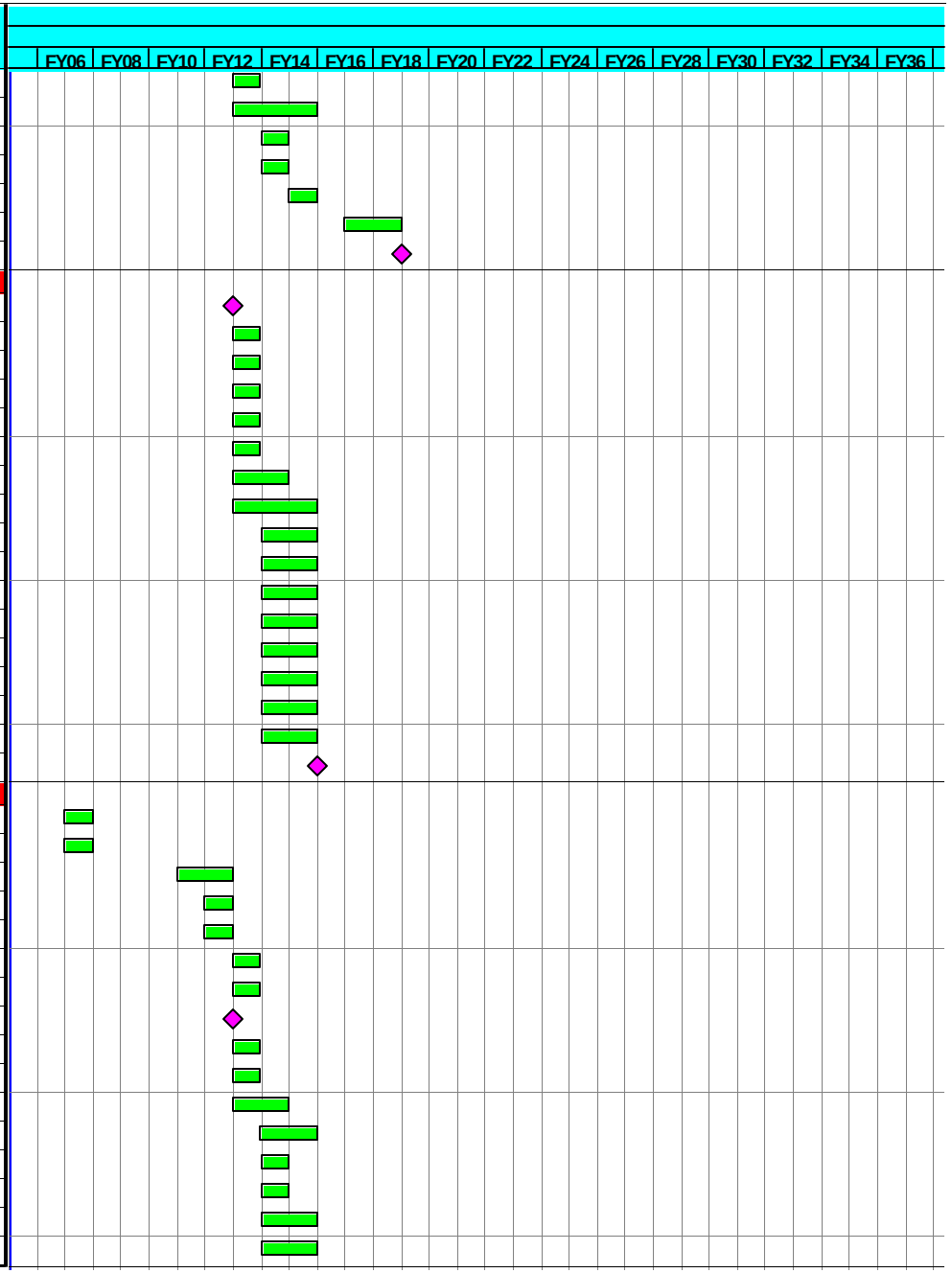
Activity ID	Activity Description	Early Start	Early Finish
6LD20762	D&D CPP-762 West Side Condensate Pump	03OCT11	28SEP12
6LD20637	DD&D CPP-637 Process Improvement Fac.	03OCT11	30SEP14
6LD20706	D&D CPP-706 Transformer Area	02OCT12	30SEP13
6LD20731	D&D CPP-731 Transformer Area	02OCT12	30SEP13
6LD2620A	D&D CPP-620A Annex	01OCT13	30SEP14
6LD20620	D&D CPP-620 Chem. Engr. Lab High Bay	01OCT15	29SEP17
6LD2END	Completed INTEC D&D CPP-637 Area		29SEP17
INTEC D&D Coal Fired Boiler Facilities			
6LD3BEG	Begin INTEC D&D Coal Fired Boiler Facilities	03OCT11*	
6LD30689	D&D CPP-689 Coal Plant Guard House	03OCT11	28SEP12
6LD30690	D&D CPP-690 Coal Plant Storage Bldg.	03OCT11	28SEP12
6LD30696	D&D CPP-696 Coal Plant Offices	03OCT11	28SEP12
6LD30755	D&D CPP-755 Fuel Oil Pump Shed	03OCT11	28SEP12
6LD30775	D&D CPP-775 Fuel Oil Pump Shed	03OCT11*	28SEP12
6LD30688	D&D CPP-688 Coal Plant Unload Bldg	03OCT11	30SEP13
6LD30687	D&D CPP-687 Coal-Fired Boiler House	03OCT11	30SEP14
6LD30776	D&D CPP-776 Car Thaw Station	02OCT12	30SEP14
6LD30778	D&D CPP-778 Electrical Substation	02OCT12	30SEP14
6LD30788	D&D CPP-788 Boiler Baghouse No. 1	02OCT12	30SEP14
6LD30789	D&D CPP-789 Boiler Baghouse No. 2	02OCT12	30SEP14
6LD30792	D&D CPP-792 Ash Silo	02OCT12	30SEP14
6LD30793	D&D CPP-793 Limestone Silo	02OCT12	30SEP14
6LD30794	D&D CPP-794 Coal Handling Dust Collector	02OCT12	30SEP14
6LD31780	D&D CPP-1780 Ash Pit	02OCT12	30SEP14
6LD3END	Completed INTEC D&D Coal Fired Boiler Facilities		30SEP14
INTEC D&D Facilities End State			
6LD50695	D&D CPP-695 Quality X-Ray Facility	03OCT05	29SEP06
6LD51630	D&D CPP-1630 Fire Protection Building	03OCT05	29SEP06
6LD50756	D&D CPP-756 Pre-Filter Vault	01OCT09*	28SEP11
6LD50758	D&D CPP-758 Leaching Cesspool	01OCT10*	28SEP11
6LD50759	D&D CPP-759 Leaching Cesspool	01OCT10*	28SEP11
6LD51603	D&D CPP-1603 Landlord Storage Facility	30SEP11	27SEP12
6LD5TB-3	D&D CPP-TB-3 FPR Eastside Guardhouse	30SEP11	27SEP12
6LD5BEG	Begin INTEC D&D CPP Misc. Facilities	03OCT11*	
6LD51657	D&D CPP-1657 Hazardous Temp. Accumulation	03OCT11	28SEP12
6LD51751	D&D CPP-1751/52 Camera Towers	03OCT11	28SEP12
6LD51714	D&D CPP-1714/48 Camera Towers	03OCT11	30SEP13
6LD5TB-5	D&D CPP-TB-5 Unloading Station	28SEP12	29SEP14
6LD50682	D&D CPP-682 S&H Emergency Equipment Shop	01OCT12	30SEP13
6LD51612	D&D CPP-1612 Pond 326 Pumphouse	01OCT12	30SEP13
6LD50656	D&D CPP-656 Office Building	01OCT12	30SEP14
6LD50668	D&D CPP-668 Engineering Support Office	01OCT12	30SEP14



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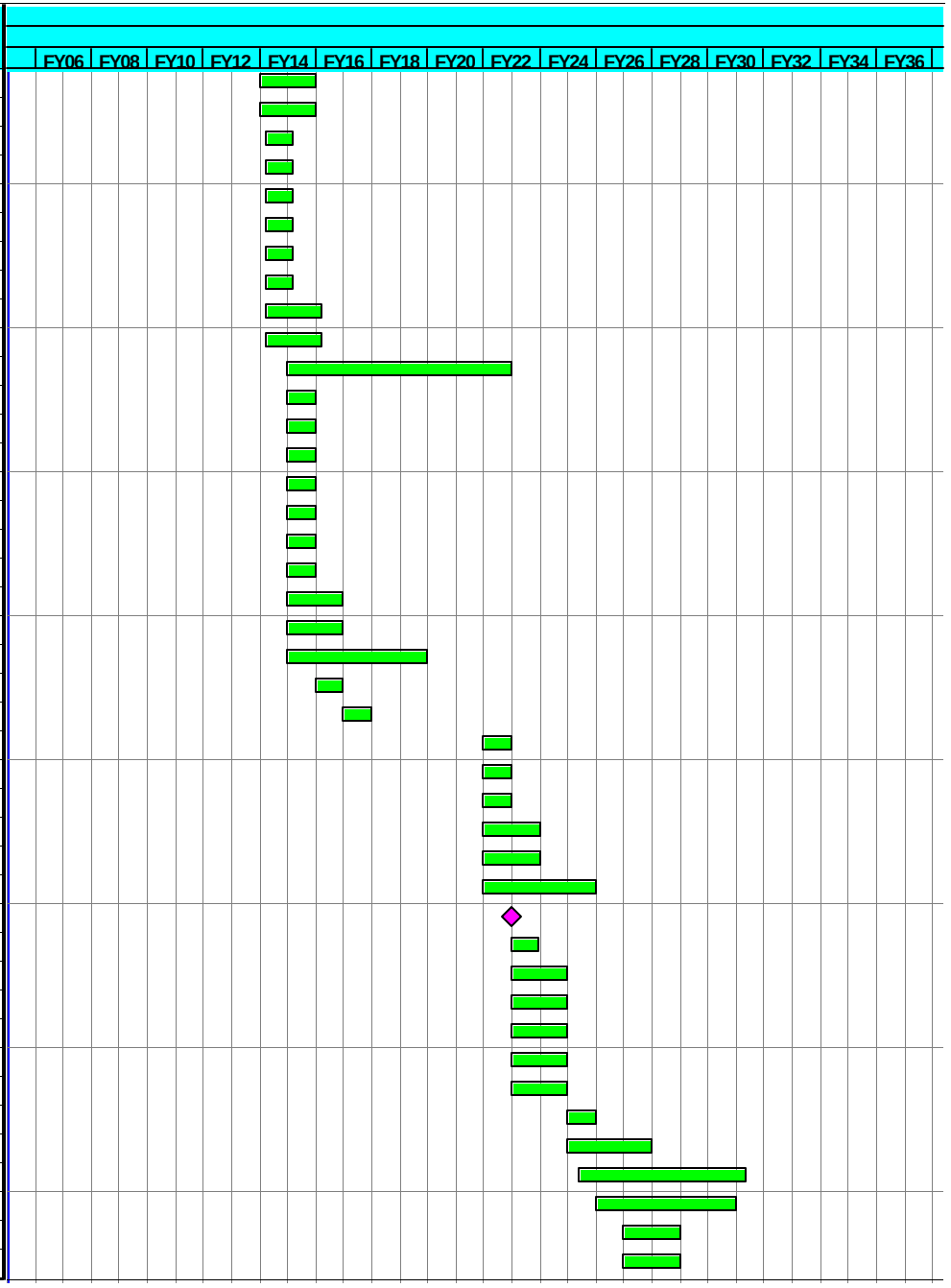
6LD51635	D&D CPP-1635 Haz Chemical Storage Fac.	01OCT12	30SEP14
6LD51659	D&D CPP-1659 Contaminated Equip. Maint. Bldg	01OCT12	30SEP14
6LD50730	D&D CPP-730 Liquid Nitrogen Storage Tank	02JAN13	23DEC13
6LD5719A	D&D CPP-719A Nitric Acid Tank	02JAN13	23DEC13
6LD5719B	D&D CPP-719B Nitric Acid Tank	02JAN13	23DEC13
6LD5720A	D&D CPP-720A Alum. Nitrate Tank	02JAN13	23DEC13
6LD5720B	D&D CPP-720B Alum. Nitrate Tank	02JAN13	23DEC13
6LD5720C	D&D CPP-720C Alum. Nitrate Tank	02JAN13	23DEC13
6LD50728	D&D CPP-728 Lift Station	02JAN13	23DEC14
6LD50735	D&D CPP-735 Transformer Area	02JAN13	23DEC14
6LD50666	DD&D CPP-666 FDP/Fast Facility	30SEP13*	29SEP21
6LD5-T-2	D&D CPP-T-2 Temporary Storage Bldg	01OCT13	30SEP14
6LD5-T-3	D&D CPP-T-3 Temporary Storage Bldg	01OCT13	30SEP14
6LD50621	D&D CPP-621 Chemical Storage Pumphouse	01OCT13	30SEP14
6LD51611	D&D CPP-1611 Pond 327 Pumphouse	01OCT13	30SEP14
6LD51672	D&D CPP-1672 Access Control Biuilding (TF)	01OCT13	30SEP14
6LD51677	D&D CPP-1677 Change Room	01OCT13	30SEP14
6LD51682	D&D CPP-1682 Kerosene Pumphouse	01OCT13	30SEP14
6LD50699	D&D CPP-699 Training/Prod Office Bldg	01OCT13	30SEP15
6LD51644	D&D CPP-1644 Bulk Chemical Unloading	01OCT13	30SEP15
6LD50691	D&D CPP-691 Fuel Processing Restor. Fac.	01OCT13	28SEP18
6LD50642	D&D CPP-642 Hot Waste Pumphouse	01OCT14	30SEP15
6LD50654	D&D CPP-654 Receiving Warehouse/Office	01OCT15	30SEP16
6LD50757	D&D CPP-757 Mounting Pad Containment	01OCT20*	29SEP21
6LD51649	D&D CPP-1649 Instr. Storage & Maint. Fac.	01OCT20	30SEP21
6LD51678	D&D CPP-1678 Contractors lunchroom	01OCT20	30SEP21
6LD50684	D&D CPP-684 Remote Analytical Lab	01OCT20	30SEP22
6LD50698	D&D CPP-698 MK Offices/Warehouse	01OCT20	30SEP22
6LD50749	D&D CPP-749 Peach Bottom	01OCT20	30SEP24
6LD4END	Completed INTEC D&D CPP Misc. Facilities		29SEP21
6LD50727	D&D CPP-727 HF Storage Tank	30SEP21	27SEP22
6LD50660	D&D CPP-660 Chem & Haz Matl Storage	01OCT21	29SEP23
6LD51653	D&D CPP-1653 Subcontractor Warehouse	01OCT21	29SEP23
6LD51662	D&D CPP-1662 Remote Inst. Engr. Facility	01OCT21	29SEP23
6LD51663	D&D CPP-1663 Security & Fire Prot. Support	01OCT21	29SEP23
6LD51666	D&D CPP-1666 Engineering Support Office	01OCT21	29SEP23
6LD50711	D&D CPP-711 Unloading Shelter	03OCT23	30SEP24
6LD50708	D&D CPP-708 Main Stack	03OCT23	01OCT26
6LD50603	DD&D CPP-603 Wet & Dry Fuel Storage Area (RCRA)	14FEB24	12FEB30
6LD50604	DD&D CPP-604 Rare Gas Plant/Waste Bldg (RCRA)	01OCT24	28SEP29
6LD51650	D&D CPP-1650 Training Support Facility	01OCT25	30SEP27
6LD51651	D&D CPP-1651 Operations Training Facility	01OCT25	30SEP27



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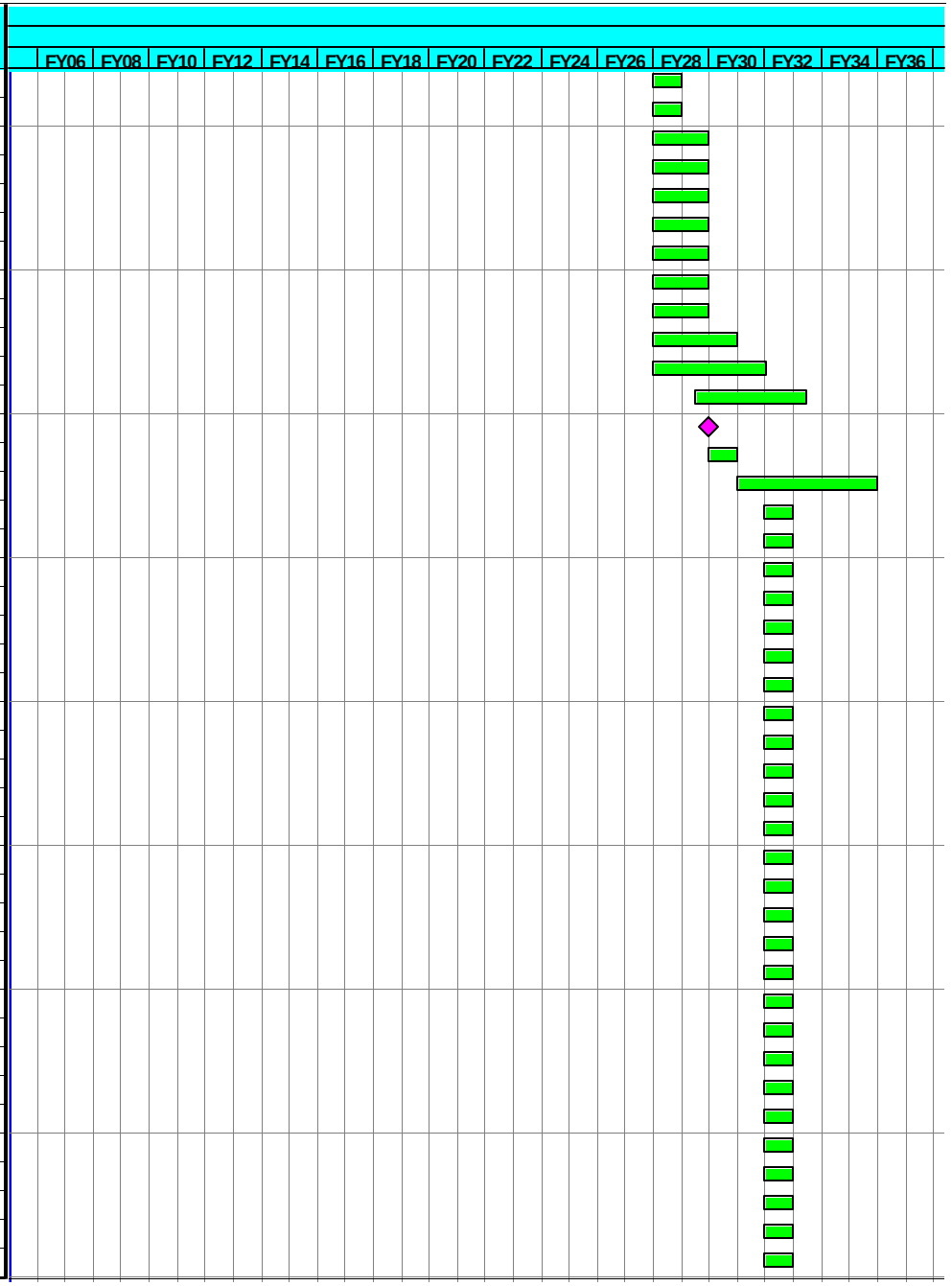
6LD51676	D&D CPP-1676 Oil Hazardous Materials Bldg	01OCT26	30SEP27
6LD5POND	D&D New SWMDF Perc Pond	01OCT26	01OCT27
6LD50767	D&D CPP-767 Fast Stack	01OCT26*	27SEP28
6LD50605	D&D CPP-605 Blower Building	01OCT26	29SEP28
6LD50649	D&D CPP-649 Atmospheric Protection System	01OCT26	29SEP28
6LD50692	D&D CPP-692 Waste Stack Monitor System	01OCT26	29SEP28
6LD51636	D&D CPP-1636 Warehouse	01OCT26	29SEP28
6LD51637	D&D CPP-1637 FPR Weld Fab Shop	01OCT26	29SEP28
6LD51638	D&D CPP-1638 Temporary Waste Storage Facility	01OCT26	29SEP28
6LD50641	DD&D CPP-641 Waste Holdup Pumphouse	01OCT26	28SEP29
6LD51618	DD&D CPP-1618 Liquid Eff. Treat. Bldg. (RCRA)	01OCT26	01OCT30
6LD50659	DD&D CPP-659 New Waste Calcine Facility (RCRA)	03APR28	01APR32
6LD5NRC1	Final D&D Plan for CPP-1774 approved by NRC		29SEP28
6LD50626	D&D CPP-626 Change Room	02OCT28	28SEP29
6LD51774	D&D CPP-1774 Spent Fuel Storage	01OCT29	29SEP34
6LD50702	D&D CPP-702 Fuel Oil Unloading Shelter	01OCT30	29SEP31
6LD50705	D&D CPP-705 Transformer Area for CPP-606	01OCT30	29SEP31
6LD50766	D&D CPP-766 Seepage Pit	01OCT30	29SEP31
6LD51610	D&D CPP-1610 Salt Pit Control House	01OCT30	29SEP31
6LD51711	D&D CPP-1711 Deep Well	01OCT30*	29SEP31
6LD51749	D&D CPP-1749 Emerg. Pump Station	01OCT30*	29SEP31
6LD51750	D&D CPP-1750 Transformer Area	01OCT30*	29SEP31
6LD51756	D&D CPP-1756 Cesspool	01OCT30*	29SEP31
6LD51759	D&D CPP-1759 Diesel Storage Tank Basin	01OCT30*	29SEP31
6LD51764	D&D CPP-1764 Load Center No. 14	01OCT30*	29SEP31
6LD51769	D&D CPP-1769 Potable Water Storage Tank	01OCT30*	29SEP31
6LD51770	D&D CPP-1770 Substation No. 1	01OCT30*	29SEP31
6LD51771	D&D CPP-1771 Substation No. 2	01OCT30*	29SEP31
6LD51772	D&D CPP-1772 Lift Station	01OCT30*	29SEP31
6LD51773	D&D CPP-1773 Load Center #13	01OCT30*	29SEP31
6LD51784	D&D CPP-1784 Tank Enclosure	01OCT30*	29SEP31
6LD51787	D&D CPP-1787 Transformer Area CPP-663	01OCT30*	29SEP31
6LD51792	D&D CPP-1792 Lift Station	01OCT30*	29SEP31
6LD51794	D&D CPP-1794 Pad for Trailers	01OCT30*	29SEP31
6LD5U696	D&D VES-UTI-696	01OCT30*	29SEP31
6LD5U709	D&D VES-UTI-709	01OCT30*	29SEP31
6LD5UT11	D&D Fire Water Storage Tank VES-UTI-111	01OCT30*	29SEP31
6LD50609	D&D CPP-609 Cold Waste Facility Office	01OCT30	30SEP31
6LD50611	D&D CPP-611 Water Well #1 Pumphouse	01OCT30	30SEP31
6LD50612	D&D CPP-612 Water Well #2 Pumphouse	01OCT30	30SEP31
6LD50613	D&D CPP-613 Substation #10	01OCT30	30SEP31
6LD50614	D&D CPP-614 Diesel Engine Pumphouse	01OCT30	30SEP31



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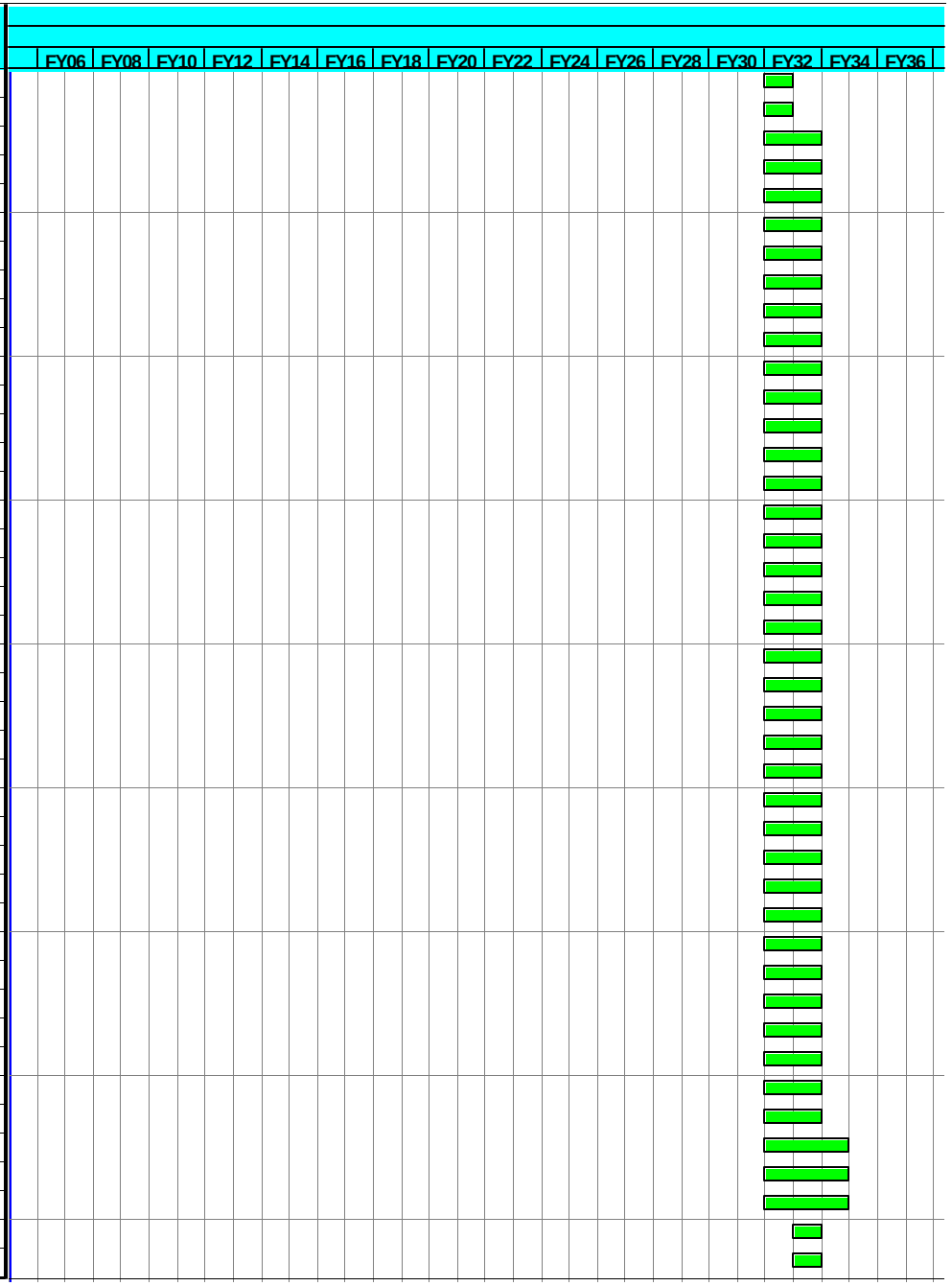
Activity ID	Activity Description	Early Start	Early Finish
6LD50616	D&D CPP-616 Emergency Air Compressor	01OCT30	30SEP31
6LD50661	D&D CPP-661 Guardhouse & VMF-2	01OCT30	30SEP31
6LD50701	D&D CPP-701 Fuel Unloading Shelter	01OCT30	28SEP32
6LD50725	D&D CPP-725 Water Storage Tank	01OCT30	28SEP32
6LD50726	D&D CPP-726 Raw Water Storage Tank	01OCT30	28SEP32
6LD50736	D&D CPP-736 Salt Storage Pit	01OCT30	28SEP32
6LD50740	D&D CPP-740 Settling Basin/Dry Well	01OCT30	28SEP32
6LD51608	D&D CPP-1608 Contaminated Equip. Storage	01OCT30	28SEP32
6LD51713	D&D CPP-1713 Lift Station	01OCT30*	28SEP32
6LD51758	D&D CPP-1758 Load Center #4	01OCT30*	28SEP32
6LD51760	D&D CPP-1760 Kerosene Storage TAnk Basin	01OCT30*	28SEP32
6LD51762	D&D CPP-1762 Load Center No. 5	01OCT30*	28SEP32
6LD51775	D&D CPP-1775 NWCF Vent Stack	01OCT30*	28SEP32
6LD51788	D&D CPP-1778 Transformer Area CPP-659	01OCT30*	28SEP32
6LD5701A	D&D CPP-701A Fuel Oil Tank	01OCT30	28SEP32
6LD5701B	D&D CPP-701B Fuel Oil Tank	01OCT30	28SEP32
6LD50606	D&D CPP-606 Service Bldg Powerhouse	01OCT30	30SEP32
6LD50645	D&D CPP-645 Office building	01OCT30	30SEP32
6LD50652	D&D CPP-652 Cafeteria/Offices	01OCT30	30SEP32
6LD50653	D&D CPP-653 Waste Handling Facility	01OCT30	30SEP32
6LD50662	D&D CPP-662 Maintenance/Fab Shop	01OCT30	30SEP32
6LD50663	D&D CPP-663 Maintenance/Crafts/Warehouse Bldg	01OCT30	30SEP32
6LD50697	D&D CPP-697 East Guardhouse & VMF	01OCT30	30SEP32
6LD51604	D&D CPP-1604 Office Building	01OCT30	30SEP32
6LD51605	D&D CPP-1605 Engineering Support Building	01OCT30	30SEP32
6LD51606	D&D CPP-1606 Plant Support Warehouse	01OCT30	30SEP32
6LD51619	D&D CPP-1619 Haz Chem/Rad Waste Fac.	01OCT30	30SEP32
6LD51631	D&D CPP-1631 Production Computer Support	01OCT30	30SEP32
6LD51634	D&D CPP-1634 Technology Dev. Facility	01OCT30	30SEP32
6LD51646	D&D CPP-1646 Anti-C Safety Handling	01OCT30	30SEP32
6LD51656	D&D CPP-1656 Warehpuse	01OCT30	30SEP32
6LD51671	D&D CPP-1671 Protective Force Support Facility	01OCT30	30SEP32
6LD51673	D&D CPP-1673 Utility Control Center	01OCT30	30SEP32
6LD51674	D&D CPP-1674 Central Alarm Station	01OCT30	30SEP32
6LD51681	D&D CPP-1681 Box Staging Area	01OCT30	30SEP32
6LD51683	D&D CPP-1683 Waste Operations Control Room	01OCT30	30SEP32
6LD51686	D&D CPP-1686 Access Control Facility	01OCT30	30SEP32
6LD5702A	D&D CPP-702A Fuel Oil Tank	01OCT30	28SEP33
6LD5702B	D&D CPP-702B Fuel Oil Tank	01OCT30	28SEP33
6LD50655	D&D CPP-655 Craft Shop/Warehouse	01OCT30	30SEP33
6LD50748	D&D CPP-748 Lift Station	01OCT31*	28SEP32
6LD50769	D&D CPP-769 UREP Flow Control Station #1	01OCT31*	28SEP32



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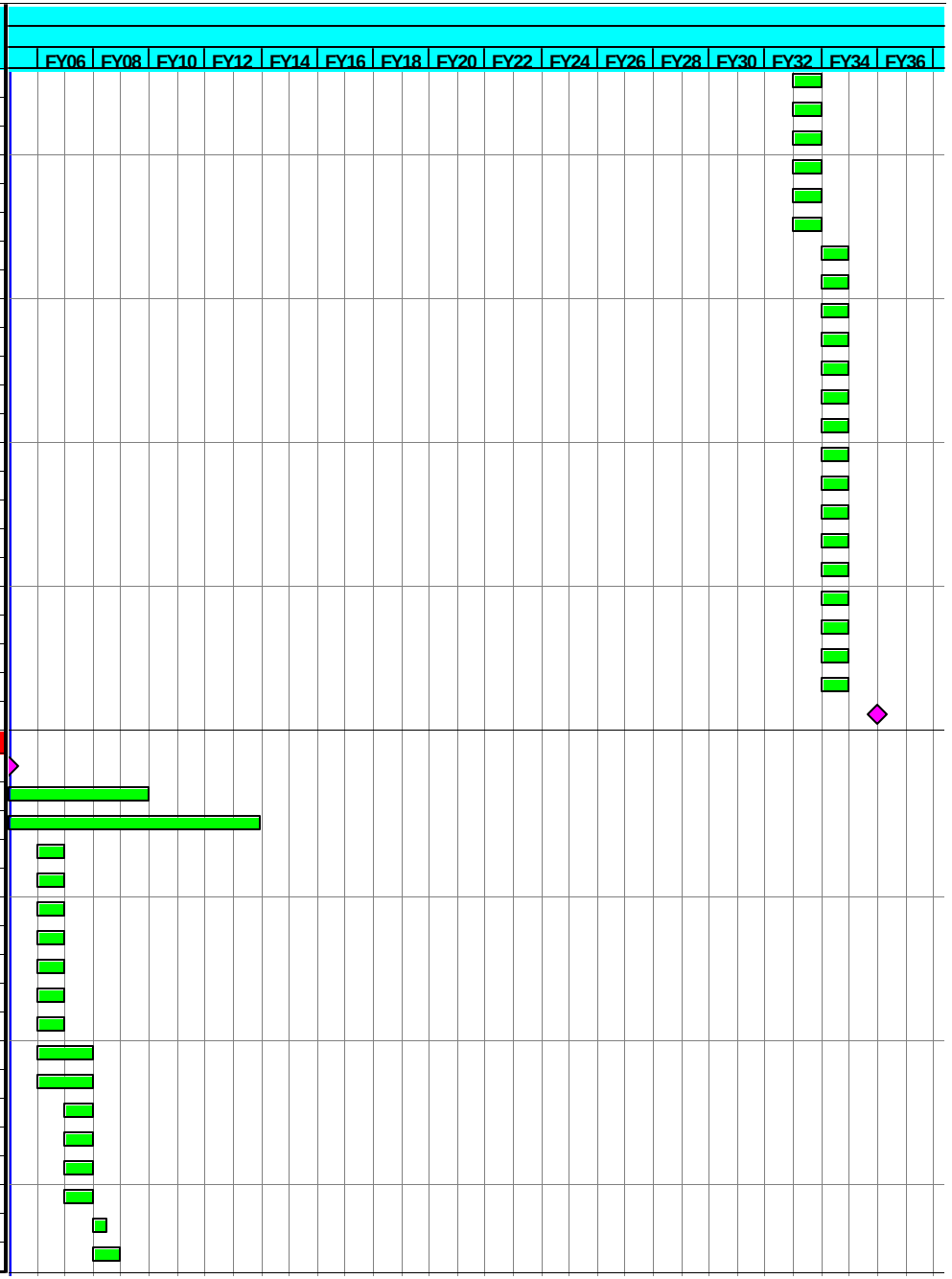
Activity ID	Activity Description	Early Start	Early Finish
6LD50770	D&D CPP-770 UREP Flow Control Station #2	01OCT31*	28SEP32
6LD50771	D&D CPP-771 UREP Flow Control Station #3	01OCT31*	28SEP32
6LD50772	D&D CPP-772 UREP Flow Control Station #4	01OCT31*	28SEP32
6LD50773	D&D CPP-773 UREP Flow Control Station #5	01OCT31*	28SEP32
6LD50774	D&D CPP-774 UREP Flow Control Station #6	01OCT31*	28SEP32
6LD5UT12	D&D Fire Water Storage Tank VES-UTI-112	01OCT31*	28SEP32
6LD50724	D&D CPP-724 Lift Station	01OCT32	28SEP33
6LD50733	D&D CPP-733 Lift Station	01OCT32	28SEP33
6LD50768	D&D CPP-768 Sewage Lift Station	01OCT32	28SEP33
6LD50796	D&D CPP-796 West Side Serv. Waste Building	01OCT32	28SEP33
6LD50797	D&D CPP-797 East Side Serv. Waste Building	01OCT32	28SEP33
6LD50799	D&D CPP-799 Lift Station	01OCT32	28SEP33
6LD51782	D&D CPP-1782 Substation No. 15	01OCT32*	28SEP33
6LD50615	D&D CPP-615 Waste Water Treatment Plant	01OCT32	30SEP33
6LD50644	D&D CPP-644 Substation #20 Emer. Power	01OCT32	30SEP33
6LD50674	D&D CPP-674 UREP Substation #40	01OCT32	30SEP33
6LD50675	D&D CPP-675 UREP Substation #30	01OCT32	30SEP33
6LD50677	D&D CPP-677 UREP Load Center #2	01OCT32	30SEP33
6LD50679	D&D CPP-679 Tent Fabrication Facility	01OCT32	30SEP33
6LD51642	D&D CPP-1642 Fire Pumphouse	01OCT32	30SEP33
6LD51643	D&D CPP-1643 Fire Pumphouse	01OCT32	30SEP33
6LD51684	D&D CPP-1684 Standby Generator Facility	01OCT32	30SEP33
6LD5END	Completed INTEC D&D Facilities 2035-45		29SEP34
INTEC D&D 2004-2020 PMP Compliance			
6LD7BEG	Begin INTEC D&D 2004-12 PMP Compliance	01OCT03*	
6LD06R1	Re-Routing Utilities from CPP-601/627/640	01OCT03	30SEP08
6LD70601	Deactivation CPP-601/627/640 Fuel Process Fac.	01OCT03	28SEP12
6LD70T-1	D&D CPP-T-1 Construction Mgmt Building	30SEP04	28SEP05
6LD70608	D&D CPP-608 Storage Building	01OCT04	29SEP05
6LD70617	D&D CPP-617 Storage Building	01OCT04	29SEP05
6LD70629	D&D CPP-629 Office Building	01OCT04	29SEP05
6LD70T-5	D&D CPP-T-5 Temporary Office Building	01OCT04	29SEP05
6LD7TB-4	D&D CPP-TB-4 MK Craft Lunch Room	01OCT04	29SEP05
6LD7TB-6	D&D CPP-TB-6 Quality Office Building	01OCT04	29SEP05
6LD70665	D&D CPP-665 FPR Office Building	01OCT04	29SEP06
6LD71617	DD&D CPP-1617 Waste Storage Facility	01OCT04	29SEP06
6LD7TB-1	D&D CPP-TB-1 Carpenter Shop	30SEP05	28SEP06
6LD70664	D&D CPP-664 QA Office Building	03OCT05	29SEP06
6LD70693	D&D CPP-693 ICPP Warehouse	03OCT05	29SEP06
6LD71607	D&D CPP-1607 Automatic Foam Fire Prot. Bldg	03OCT05	29SEP06
6LD70650	D&D CPP-650 Breathing Air Compressor	02OCT06	04APR07
6LD70672	D&D CPP-672 Rad Con Storage	02OCT06	28SEP07



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Finish Date 28SEP35
Data Date 01OCT03
Run Date 11APR03 12:50

Early Bar
Progress Bar
Critical Activity

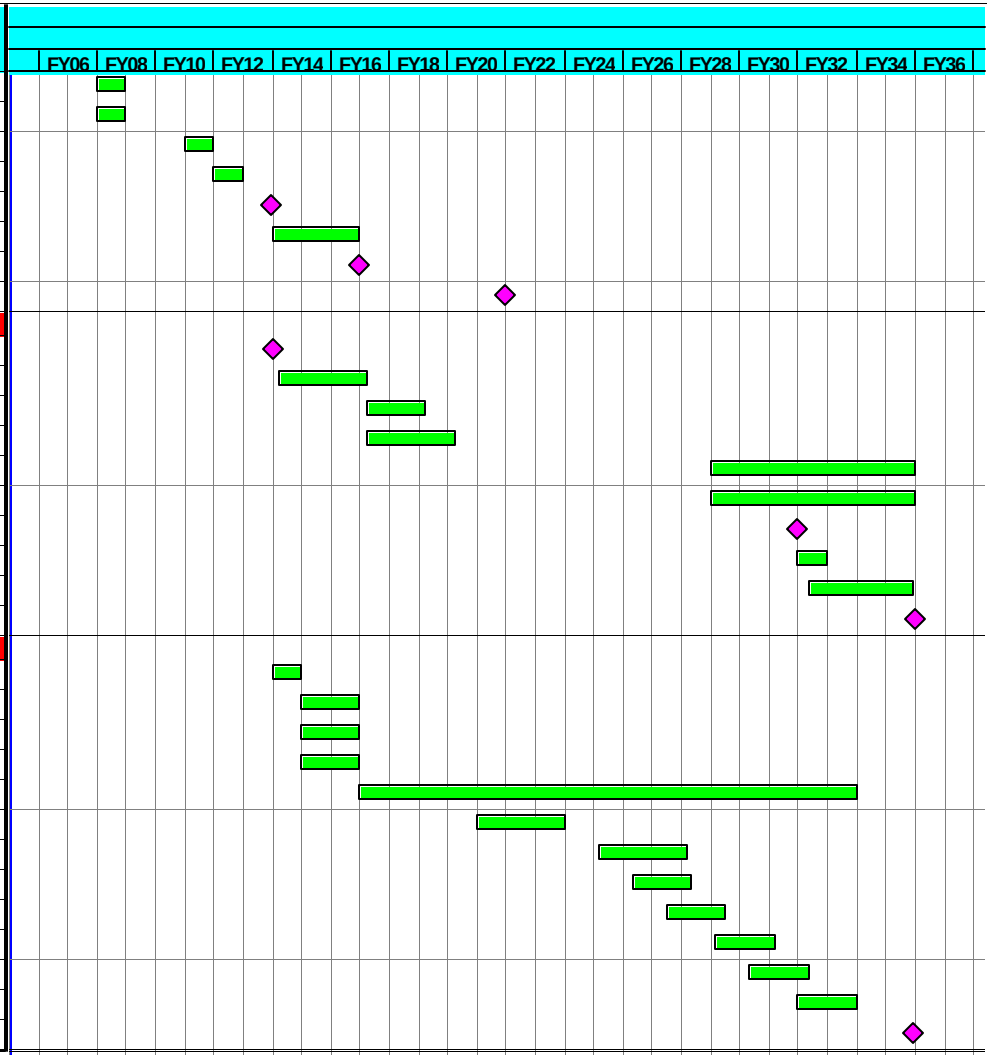
IN04 Sheet 11 of 12

PBS A- INTEC Completion
SP-6
Excess Facilities Disposition & D&D

Lifecycle Baseline

INEEL
Home of Science and Engineering Solutions
Idaho National Engineering and Environmental Laboratory

Activity ID	Activity Description	Early Start	Early Finish
6LD70683	D&D CPP-683 Breathing Air Charger	02OCT06	28SEP07
6LD71647	D&D CPP-1647 Demineralizer Waste Neutralize	03OCT06	01OCT07
6LD70694	DD&D CPP-694 NWCF Organic Solvent Disposal	01OCT09	29SEP10
6LD70648	DD&D CPP-648 Sludge Tank Control House	01OCT10	30SEP11
6LD7END	Completed INTEC 2012 PMP Compliance		28SEP12
6LD706D1	D&D CPP-601/627/640 Fuel Process Facilities	01OCT12	30SEP15
6LD706M1	DD&D of CPP-601/627/640 Complete		30SEP15
6LD7END2	Completed INTEC D&D 2020 PMP Compliance		30SEP20*
INTEC D&D Future Facilities			
6LD8BEG	Begin INTEC D&D Future Facilities	01OCT12*	
6LD81600	RCRA Closure of SBW Facilities - Deactivation	02JAN13	23DEC15
6LD80100	D&D MACT Facility	24DEC15	21DEC17
6LD80200	D&D SBW Calcine Packaging Facility	24DEC15	24DEC18
6LD80500	D&D SNF DSP	01OCT27	28SEP34
6LD80600	D&D Modular Annex to SNF DSP	01OCT27	28SEP34
6LD80510	Final D&D Plan for SNF DSP approved by NRC		30SEP30
6LD80300	D&D NGLW Facility	01OCT30	29SEP31
6LD80400	D&D Bin Set Calcine Ana/Retrival/Packaging Fac.	06FEB31	06SEP34
6LD8END	Completed INTEC D&D Future Facilities		28SEP34
INTEC DD&D Bin Sets			
6LD90125	Risk Based Closure Criteria Ana/Ret/Pack/CSSF	01OCT12*	01OCT13
6LD90150	DOE 435.1 Closure Plan Ana/Ret/Pack/CSSF	02OCT13	30SEP15
6LD90175	Incidental Waste Determination Ana/Ret/Pack/CSSF	02OCT13	30SEP15
6LD90200	RCRA Closure Plan Ana/Ret/Pack/CSSF	02OCT13	01OCT15
6LD90045	INTEC End State BIN SET Disposal Facility	30SEP15	28SEP32
6LD90795	D&D CPP-795 Bin Set #7	01OCT19	28SEP22
6LD90791	D&D CPP-791 BIN SET #6	04DEC23	02DEC26
6LD90742	D&D CPP-742 Bin Set #3	10FEB25	09FEB27
6LD90746	D&D CPP-746 Bin Set #2	03APR26	31MAR28
6LD90741	D&D CPP-741 WCF Storage Vault (Bin Set #1)	08DEC27	05DEC29
6LD90760	D&D CPP-760 Bin Set #4	06FEB29	05FEB31
6LD90765	D&D CPP-765 Bin Set #5	01OCT30	29SEP32
6LD90250	Complete Closure Ana/Ret/Pack/CSSF		06SEP34



Start Date 01OCT03
Finish Date 28SEP35
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Run Date 11APR03 12:50

Early Bar
Progress Bar
Critical Activity

IN04 Sheet 12 of 12

PBS A- INTEC Completion
SP-6
Excess Facilities Disposition & D&D

Lifecycle Baseline

INEEL
Home of Science and Engineering Solutions
Idaho National Engineering and Environmental Laboratory

INTEC Completion

Subproject Breakout by Control Account

WBS[5]		WBS[6]		Sep-04	Sep-05	Sep-06	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014
A.1.01.00.06 CPP-SP6 Excess Facilities Disposition & D&D														
	BURDENED BASE													
		A.1.01.00.06.01 VCO SITE-TANK-005 INTEC	BCWS	2,343	5,705	6,762	9,685	9,920	11,607	7,713	7,744	2,744	0	0
		A.1.01.00.06.02 INTEC CERCLA Remediation of Soils Under Buildings	BCWS	317	343	425	0	0	0	0	1,665	1,223	1,207	0
		A.1.01.00.06.03 INTEC CERCLA Remediation of Other Surface Soils	BCWS	2,334	4,546	7,509	8,025	6,628	7,139	7,713	4,413	2,003	284	0
		A.1.01.00.06.04 INTEC CERCLA Groundwater Remediation	BCWS	838	1,567	442	943	2,410	2,277	2,652	588	145	146	146
		A.1.01.00.06.06 INTEC CERCLA Remediation of Gas Cylinder Sites	BCWS	0	0	0	0	0	0	0	340	345	167	192
		A.1.01.00.06.07 INTEC CERCLA Remediation of SFE-20 Hot Waste Tank	BCWS	0	0	0	0	1,067	3,229	3,011	1,362	0	0	0
		A.1.01.00.06.08 INTEC Monitoring	BCWS	519	533	577	577	582	580	580	582	577	580	580
		A.1.01.00.06.09 FSV D&D	BCWS	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.06.10 INTEC SP6 Project Integration & Compliance	BCWS	2,418	2,586	3,105	1,322	1,332	1,327	1,327	1,332	1,322	1,327	1,327
		A.1.01.00.06.DD INTEC D&D	BCWS	1,068	4,720	9,548	8,790	11,205	8,061	11,092	20,125	17,111	54,415	63,983
	Results... Totals:		**BCWS**	**9,836**	**20,000**	**28,368**	**29,342**	**33,145**	**34,220**	**34,088**	**38,151**	**25,471**	**58,125**	**66,228**
	ESCALATE													
		A.1.01.00.06.01 VCO SITE-TANK-005 INTEC	BCWS	71	296	473	883	1,142	1,598	1,248	1,442	575	0	0
		A.1.01.00.06.02 INTEC CERCLA Remediation of Soils Under Buildings	BCWS	9	17	30	0	0	0	0	313	257	287	0
		A.1.01.00.06.03 INTEC CERCLA Remediation of Other Surface Soils	BCWS	65	211	503	726	744	967	1,228	815	429	66	0
		A.1.01.00.06.04 INTEC CERCLA Groundwater Remediation	BCWS	24	74	31	89	284	303	416	107	31	35	38
		A.1.01.00.06.06 INTEC CERCLA Remediation of Gas Cylinder Sites	BCWS	0	0	0	0	0	0	0	64	72	40	52
		A.1.01.00.06.07 INTEC CERCLA Remediation of SFE-20 Hot Waste Tank	BCWS	0	0	0	0	130	444	486	256	0	0	0
		A.1.01.00.06.08 INTEC Monitoring	BCWS	16	28	42	55	69	82	96	111	125	140	155
		A.1.01.00.06.09 FSV D&D	BCWS	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.06.10 INTEC SP6 Project Integration & Compliance	BCWS	75	135	225	127	159	190	222	255	286	321	356
		A.1.01.00.06.DD INTEC D&D	BCWS	31	235	663	799	1,275	1,104	1,788	3,739	3,600	12,837	16,789
	Results... Totals:		**BCWS**	**293**	**996**	**1,968**	**2,680**	**3,803**	**4,689**	**5,484**	**7,102**	**5,374**	**13,725**	**17,389**
	SUMMARY (Base + Escalation)													
		A.1.01.00.06.01 VCO SITE-TANK-005 INTEC	BCWS	2,414	6,001	7,235	10,569	11,062	13,205	8,961	9,186	3,319	0	0
		A.1.01.00.06.02 INTEC CERCLA Remediation of Soils Under Buildings	BCWS	326	361	455	0	0	0	0	1,979	1,480	1,494	0
		A.1.01.00.06.03 INTEC CERCLA Remediation of Other Surface Soils	BCWS	2,399	4,757	8,012	8,751	7,372	8,106	8,941	5,228	2,432	350	0
		A.1.01.00.06.04 INTEC CERCLA Groundwater Remediation	BCWS	862	1,641	473	1,031	2,694	2,581	3,069	695	176	180	184
		A.1.01.00.06.06 INTEC CERCLA Remediation of Gas Cylinder Sites	BCWS	0	0	0	0	0	0	0	404	417	206	243
		A.1.01.00.06.07 INTEC CERCLA Remediation of SFE-20 Hot Waste Tank	BCWS	0	0	0	0	1,197	3,673	3,497	1,618	0	0	0
		A.1.01.00.06.08 INTEC Monitoring	BCWS	535	561	620	633	651	662	676	693	702	719	735
		A.1.01.00.06.09 FSV D&D	BCWS	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.06.10 INTEC SP6 Project Integration & Compliance	BCWS	2,493	2,720	3,330	1,449	1,491	1,517	1,549	1,587	1,608	1,648	1,683
		A.1.01.00.06.DD INTEC D&D	BCWS	1,100	4,955	10,211	9,589	12,480	9,165	12,880	23,864	20,710	67,252	80,772
	Results... Totals:		**BCWS**	**10,129**	**20,996**	**30,336**	**32,022**	**36,948**	**38,909**	**39,572**	**45,253**	**30,844**	**71,850**	**83,617**

Thousands of $

INTEC Completion

Subproject Breakout by Control Account

WBS[5]		WBS[6]		FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
A.1.01.00.06 CPP-SP6 Excess Facilities Disposition & D&D														
	BURDENED BASE													
		A.1.01.00.06.01 VCO SITE-TANK-005 INTEC	BCWS	572	574	570	570	572	574	281	0	0	0	0
		A.1.01.00.06.02 INTEC CERCLA Remediation of Soils Under Buildings	BCWS	18	18	18	18	18	18	18	18	2,367	1,134	528
		A.1.01.00.06.03 INTEC CERCLA Remediation of Other Surface Soils	BCWS	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.06.04 INTEC CERCLA Groundwater Remediation	BCWS	146	712	0	0	0	0	0	0	0	0	0
		A.1.01.00.06.06 INTEC CERCLA Remediation of Gas Cylinder Sites	BCWS	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.06.07 INTEC CERCLA Remediation of SFE-20 Hot Waste Tank	BCWS	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.06.08 INTEC Monitoring	BCWS	531	534	529	529	531	534	534	534	529	531	531
		A.1.01.00.06.09 FSV D&D	BCWS	0	0	0	0	0	0	0	0	0	0	163
		A.1.01.00.06.10 INTEC SP6 Project Integration & Compliance	BCWS	3,191	3,190	1,434	1,434	1,440	1,446	1,446	1,446	1,434	1,440	1,440
		A.1.01.00.06.DD INTEC D&D	BCWS	44,081	30,410	28,231	28,262	18,303	20,693	27,300	10,691	2,631	11,205	19,899
	Results... Totals:		**BCWS**	**48,539**	**35,438**	**30,782**	**30,813**	**20,864**	**23,264**	**29,579**	**12,688**	**6,962**	**14,310**	**22,561**
	ESCALATE													
		A.1.01.00.06.01 VCO SITE-TANK-005 INTEC	BCWS	162	178	192	208	226	243	128	0	0	0	0
		A.1.01.00.06.02 INTEC CERCLA Remediation of Soils Under Buildings	BCWS	5	6	6	6	7	8	8	9	1,253	633	306
		A.1.01.00.06.03 INTEC CERCLA Remediation of Other Surface Soils	BCWS	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.06.04 INTEC CERCLA Groundwater Remediation	BCWS	42	225	0	0	0	0	0	0	0	0	0
		A.1.01.00.06.06 INTEC CERCLA Remediation of Gas Cylinder Sites	BCWS	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.06.07 INTEC CERCLA Remediation of SFE-20 Hot Waste Tank	BCWS	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.06.08 INTEC Monitoring	BCWS	156	171	185	200	216	232	248	265	279	298	315
		A.1.01.00.06.09 FSV D&D	BCWS	0	0	0	0	0	0	0	0	0	0	96
		A.1.01.00.06.10 INTEC SP6 Project Integration & Compliance	BCWS	935	1,021	500	541	585	630	673	718	757	806	854
		A.1.01.00.06.DD INTEC D&D	BCWS	12,751	9,606	9,707	10,514	7,332	8,906	12,564	5,245	1,371	6,216	11,683
	Results... Totals:		**BCWS**	**14,052**	**11,208**	**10,590**	**11,469**	**8,365**	**10,019**	**13,622**	**6,236**	**3,661**	**7,953**	**13,253**
	SUMMARY (Base + Escalation)													
		A.1.01.00.06.01 VCO SITE-TANK-005 INTEC	BCWS	734	752	762	778	798	818	409	0	0	0	0
		A.1.01.00.06.02 INTEC CERCLA Remediation of Soils Under Buildings	BCWS	23	23	24	24	25	25	26	26	3,621	1,768	834
		A.1.01.00.06.03 INTEC CERCLA Remediation of Other Surface Soils	BCWS	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.06.04 INTEC CERCLA Groundwater Remediation	BCWS	188	938	0	0	0	0	0	0	0	0	0
		A.1.01.00.06.06 INTEC CERCLA Remediation of Gas Cylinder Sites	BCWS	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.06.07 INTEC CERCLA Remediation of SFE-20 Hot Waste Tank	BCWS	0	0	0	0	0	0	0	0	0	0	0
		A.1.01.00.06.08 INTEC Monitoring	BCWS	688	705	714	729	747	766	782	798	809	829	846
		A.1.01.00.06.09 FSV D&D	BCWS	0	0	0	0	0	0	0	0	0	0	259
		A.1.01.00.06.10 INTEC SP6 Project Integration & Compliance	BCWS	4,127	4,212	1,934	1,975	2,025	2,075	2,119	2,164	2,191	2,246	2,294
		A.1.01.00.06.DD INTEC D&D	BCWS	56,832	40,016	37,938	38,775	25,635	29,599	39,864	15,936	4,002	17,421	31,581
	Results... Totals:		**BCWS**	**62,591**	**46,645**	**41,372**	**42,282**	**29,229**	**33,283**	**43,200**	**18,924**	**10,623**	**22,264**	**35,815**

Thousands of $

INTEC Completion

Subproject Breakout by Control Account

WBS[5]		WBS[6]		FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	FY 2035	Cumulative
A.1.01.00.06 CPP-SP6 Excess Facilities Disposition & D&D														
	BURDENED BASE													
		A.1.01.00.06.01 VCO SITE-TANK-005 INTEC	BCWS	0	0	0	0	0	0	0	0	0	0	67,936
		A.1.01.00.06.02 INTEC CERCLA Remediation of Soils Under Buildings	BCWS	1,207	0	0	0	4,978	5,270	5,779	943	1,204	567	29,301
		A.1.01.00.06.03 INTEC CERCLA Remediation of Other Surface Soils	BCWS	0	0	0	0	0	0	0	0	0	0	50,593
		A.1.01.00.06.04 INTEC CERCLA Groundwater Remediation	BCWS	0	0	0	0	0	0	0	0	0	0	13,012
		A.1.01.00.06.06 INTEC CERCLA Remediation of Gas Cylinder Sites	BCWS	0	0	0	0	0	0	0	0	0	0	1,044
		A.1.01.00.06.07 INTEC CERCLA Remediation of SFE-20 Hot Waste Tank	BCWS	0	0	0	0	0	0	0	0	0	0	8,669
		A.1.01.00.06.08 INTEC Monitoring	BCWS	521	521	524	519	521	521	523	362	357	0	16,485
		A.1.01.00.06.09 FSV D&D	BCWS	163	163	164	302	303	303	303	0	0	0	1,865
		A.1.01.00.06.10 INTEC SP6 Project Integration & Compliance	BCWS	1,327	1,327	1,332	1,322	2,436	2,686	2,696	4,993	2,209	1,604	59,999
		A.1.01.00.06.DD INTEC D&D	BCWS	28,279	33,621	50,482	68,132	45,178	45,871	32,543	8,450	3,187	0	767,568
	Results... Totals:		**BCWS**	**31,498**	**35,633**	**52,503**	**70,275**	**53,416**	**54,651**	**41,845**	**14,748**	**6,957**	**2,171**	**1,016,472**
	ESCALATE													
		A.1.01.00.06.01 VCO SITE-TANK-005 INTEC	BCWS	0	0	0	0	0	0	0	0	0	0	9,066
		A.1.01.00.06.02 INTEC CERCLA Remediation of Soils Under Buildings	BCWS	750	0	0	0	3,768	4,173	4,827	817	1,099	539	19,134
		A.1.01.00.06.03 INTEC CERCLA Remediation of Other Surface Soils	BCWS	0	0	0	0	0	0	0	0	0	0	5,755
		A.1.01.00.06.04 INTEC CERCLA Groundwater Remediation	BCWS	0	0	0	0	0	0	0	0	0	0	1,699
		A.1.01.00.06.06 INTEC CERCLA Remediation of Gas Cylinder Sites	BCWS	0	0	0	0	0	0	0	0	0	0	228
		A.1.01.00.06.07 INTEC CERCLA Remediation of SFE-20 Hot Waste Tank	BCWS	0	0	0	0	0	0	0	0	0	0	1,316
		A.1.01.00.06.08 INTEC Monitoring	BCWS	327	344	364	380	400	420	440	319	329	0	6,808
		A.1.01.00.06.09 FSV D&D	BCWS	101	107	113	218	230	241	253	0	0	0	1,359
		A.1.01.00.06.10 INTEC SP6 Project Integration & Compliance	BCWS	832	878	928	967	1,856	2,144	2,254	4,360	2,020	1,543	28,153
		A.1.01.00.06.DD INTEC D&D	BCWS	17,544	21,968	34,825	49,332	34,255	36,575	27,105	7,398	2,914	0	370,673
	Results... Totals:		**BCWS**	**19,555**	**23,297**	**36,230**	**50,897**	**40,510**	**43,553**	**34,880**	**12,894**	**6,363**	**2,082**	**444,191**
	SUMMARY (Base + Escalation)													
		A.1.01.00.06.01 VCO SITE-TANK-005 INTEC	BCWS	0	0	0	0	0	0	0	0	0	0	77,002
		A.1.01.00.06.02 INTEC CERCLA Remediation of Soils Under Buildings	BCWS	1,957	0	0	0	8,746	9,443	10,606	1,760	2,304	1,106	48,435
		A.1.01.00.06.03 INTEC CERCLA Remediation of Other Surface Soils	BCWS	0	0	0	0	0	0	0	0	0	0	56,349
		A.1.01.00.06.04 INTEC CERCLA Groundwater Remediation	BCWS	0	0	0	0	0	0	0	0	0	0	14,711
		A.1.01.00.06.06 INTEC CERCLA Remediation of Gas Cylinder Sites	BCWS	0	0	0	0	0	0	0	0	0	0	1,271
		A.1.01.00.06.07 INTEC CERCLA Remediation of SFE-20 Hot Waste Tank	BCWS	0	0	0	0	0	0	0	0	0	0	9,985
		A.1.01.00.06.08 INTEC Monitoring	BCWS	848	866	888	899	922	941	963	681	687	0	23,293
		A.1.01.00.06.09 FSV D&D	BCWS	264	270	278	520	533	545	556	0	0	0	3,224
		A.1.01.00.06.10 INTEC SP6 Project Integration & Compliance	BCWS	2,159	2,205	2,260	2,289	4,292	4,830	4,951	9,353	4,229	3,147	88,152
		A.1.01.00.06.DD INTEC D&D	BCWS	45,824	55,589	85,308	117,464	79,433	82,446	59,649	15,848	6,101	0	1,138,241
	Results... Totals:		**BCWS**	**51,053**	**58,930**	**88,733**	**121,173**	**93,926**	**98,204**	**76,725**	**27,641**	**13,320**	**4,253**	**1,460,663**

Thousands of $

LIFECYCLE-OLD PBS CROSSWALK

FY 2003 ID

A.1.01.00 INTEC Completion			
	A.1.01.00.00 INTEC-SP0 Project Support & Facility Authority		
		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
	A.1.01.00.01 INTEC-SP1 Wet SNF to Dry & SNF Consolidation		
		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
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		A.1.02.00.01.02 TAN 607 - Central Area Structures and Buildings	OIM-110 OIM-111
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		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
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		A.1.02.00.03.03 LOFT D&D&D	New
	A.1.02.00.04 TAN-SP4 TSF/Balance of TAN		
		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
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		A.1.04.00.02.BB.02 Sub-Project management	OIM-110
		A.1.04.00.02.CC.01 VCO TRA Tanks	VCO-101
	A.1.04.00.04 PBF-SP1 PBF/WERF/WROC Completion		
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