

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Richland**

Site Summary Level: **Richland Operations Office**

Project **RL-RG01 / TWRS Regulatory Unit**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0429**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

The privatization of a portion of the Tank Waste Remediation System (TWRS) for the treatment of radioactive waste requires the Contractor to utilize private funding to design, permit, construct, operate, and deactivate their own equipment and facilities. DOE is procuring a service and the Contractor will receive payments upon delivery of processed and vitrified waste conforming to DOE specifications. The processing of the radioactive waste must be accomplished within the radiological, nuclear, and process safety protection requirements and standards.¹

With the transition of mission execution to a privatized approach, procuring waste processing services from a privately owned and controlled facility, traditional management and control by the DOE staff of technical operations of facilities is eliminated. A key element of the TWRS Privatization is the establishment of the Office of Radiological, Nuclear, and Process Safety Regulation of TWRS Privatization Contractors (RU) in order to provide the radiological, nuclear, and process safety regulation of the TWRS Privatization (TWRS-P) Contractor. This office assumes the safety oversight responsibilities, the execution of which are formally authorized by the "Memorandum of Agreement for the Execution of Radiological, Nuclear, and Process Safety (RNPS) Regulation of the TWRS Privatization Contractors" (MOA) signed on July 3, 1996, by the Manager, DOE-RL, Assistant Secretary for Environment, Safety and Health, and Assistant Secretary for Environmental Management.

The aim of DOE with regard to the radiological, nuclear, and process safety regulation of the TWRS-P Contractor is to establish a regulatory environment that permits privatization to occur in a timely, predictable, and stable manner consistent with the concepts and principles of the U.S. Nuclear Regulatory Commission; and one that embraces the fundamental regulatory principles of independence, openness, efficiency, clarity, and reliability. Authority for RU activities is found in DOE/RL-96-25, Policy for Radiological Nuclear, and Process Safety Regulation of TWRS Privatization Contractors, approved by the Under Secretary of Energy.

The regulatory process described herein applies only to the radiological, nuclear, and process safety aspects of TWRS Privatization. The activities for execution of the regulation of the TWRS-P Contractor are summarized in the following elements, the first two of which have been completed:

‣ Standards Approval - The set of radiological, nuclear, and process safety standards recommended by the Contractor was formally reviewed by the RU and approved by the Regulatory Official (RO). The approval was based on the; a) sufficiency of the set to ensure adequate safety for the workers and the public, to ensure compliance with applicable laws and regulations, and to ensure conformance with the top-level safety standards and principles stipulated to the Contractor; and b) execution of the standards identification process stipulated to the Contractor. Following approval of the set of standards by the RO, the set was incorporated in the authorization basis as mandatory safety requirements with which the Contractor must comply.

‣ Initial Safety - Near the end of the Contractor's concept development, a formal review of the Contractor's Initial Safety Assessment Report was performed and documented. The purpose of this review was to assess the viability and sufficiency of the Contractor's approaches to achieve and maintain adequate safety through its proposed design and management practices.

‣ Authorization for Construction - A formal review of the Contractor's construction authorization request, which will include the proposed "Authorization Basis" for the construction of the Contractor's facility, will be performed and documented. The purpose of this review will be to

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provide the basis on which the construction authorization will be issued by the RO through an "Authorization Agreement" with the Contractor.

Authorization for Production Operations - A formal review of the Contractor's operating authorization request, which will include the proposed "Authorization Basis" for the operation of the Contractor's facility, will be performed and documented. The purpose of this review will be to provide the basis on which the operating authorization will be issued by the RO through an "Authorization Agreement" with the Contractor.

Oversight - Regulatory oversight, including onsite inspection of the Contractor's implementation of the "Authorization Agreements" will be performed. The purpose of this oversight is to ensure the Contractor's conformance with the provisions of the "Authorization Agreement," and that enforcement actions are taken when the provisions are not met.

Authorization for Deactivation - A formal review of the Contractor's deactivation authorization request, which will include the proposed "Authorization Basis" for the deactivation of the Contractor's facility, will be performed and documented. The purpose of this review will be to provide the basis on which the deactivation authorization will be issued by the RO through an "Authorization Agreement" with the Contractor.

The responsibility of the RU is to provide safety regulation of the design, construction, operation and deactivation of privatized facilities to remediate a portion of the Hanford Site tank wastes. The basic concept of this approach is that the contractor is responsible for achieving adequate safety through (1) compliance with applicable laws and legal requirements, (2) conformance with DOE-stipulated top-level safety standards and principles, and (3) adherence to the process for establishing safety standards and requirements. Consistent with these requirements, the Contractor is required to tailor the exercise of this responsibility to the specific hazards associated with their activities.

A basis for TWRS Privatization is that the radiological, nuclear, and process safety assured through the DOE regulatory approach meets applicable law and is patterned specifically to control the hazards incident to the activities of the contractors. To achieve this, DOE expects that a set of essential safety standards will be identified and recommended by the contractor. This set, when implemented, will provide adequate safety when coupled with an assurance that the Contractor's activities are in compliance with applicable laws and conform to DOE's top-level radiological and nuclear safety standards. When DOE approves a set of essential safety standards, the set becomes the requirements which will be applied to the Contractor's activities.

The TWRS Privatization Program is being implemented in two phases. Phase I is a proof-of-concept/commercial demonstration effort with objectives to: a) demonstrate the technical and business viability of using a Privatized Contractor to treat Hanford tank waste, b) define and maintain adequate levels of radiological, nuclear, and process safety, c) maintain environmental protection and compliance, and d) substantially reduce life-cycle costs and time required to treat Hanford tank waste. Phase I activities are scheduled for completion in approximately twenty years and consist of two parts, Part A and Part B. Part A was a twenty-month developmental period to establish the technical, operational, regulatory, business and financial elements of privatization. Part B is a commercial demonstration phase, in which approximately five million gallons of specific, well-characterized radioactive waste will be pretreated and immobilized. The regulatory scope is limited to the Contractors' activities, but it must of necessity consider Site characteristics, Site services, and integrated emergency response. The regulatory scope includes retrieval and transfer operations from an existing tank (this tank will be used as a feed tank for supplying the waste to the Contractor), all processing operations, temporary storage of immobilized waste, and transfer to a DOE-provided transport vehicle. It also includes the full life-cycle of the Contractor's facilities from initial design through deactivation.

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Phase II initiation will commence during Phase I and will be the full-scale production effort, in which the facilities are to be configured so that all the remaining tank waste can be processed on a schedule that will accommodate removing the waste from single-shelled tanks by the year 2028. The objectives of Phase II are to: a) implement the lessons learned from Phase I, and b) process all tank waste into forms suitable for final disposal. The TWRS Regulatory Unit will continue to provide regulatory oversight of the Contractor's activities until final deactivation of the facilities.

Project Status in FY 2006:

By FY 2006, the following key activities are scheduled for completion:

1. Completion of review of Contractors' Safety Requirements Documents and Integrated Safety Management Plans.
2. Complete Initial Safety Evaluation Review of Contractors.
3. Complete Limited Construction Authorization and issue Authorization Agreement
4. Complete Construction Authorization Review and issue Authorization Agreement.
5. Complete Operations Authorization Review and issue Authorization Agreement.

The RU will conduct safety implementation monitoring throughout all preliminary design, construction, and operations through execution of a comprehensive inspection program based on safety standards established with the TWRS-P Contractor.

Post-2006 Project Scope:

Following completion of the Operations Authorization Agreement the primary focus of the RU will be its Inspection/Oversight role. This focus will continue until the Contractor is scheduled for final deactivation of the TWRS-P facilities. The Richland Operations Office Critical Closure Path and the Contractor's schedule has complete immobilization of the Hanford Site tank wastes scheduled for FY 2028, preceded by the Contractors Deactivation Authorization Agreement.

Project End State

Upon deactivation of the TWRS-P Contractor's facilities no additional site projects, at this time, are anticipated to require regulation by the RU.

Cost Baseline Comments:

The Regulatory Unit (RU) cost baseline is developed upon Activity-Based Cost Estimating (ABC) principles and reflects the estimated cost of resources needed to achieve the work objectives and milestones identified within this PBS (RG01).

The use of strong technical knowledge was the primary methodology by which the baseline was developed. The RU has been structured to function very similar to the NRC oversight of a nuclear facility and contains direct NRC experience and knowledge. This includes expertise in regards to regulations and how to establish safety requirements, incorporate processes, and develop guidance to achieve safety goals. Included in this expertise is a solid understanding of the policies and practices that must be established to operate the regulatory function internally, the guidance needed for the review of the Contractor's safety documents, the basis of the authorization documents, and the field oversight functions that will occur during design, construction, operations, and deactivation of the privatized facilities.

The RU is managed by senior DOE personnel with numerous years of direct program management experience. Although the RU is not specifically

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constructing a physical facility, many of the management practices and processes are directly applicable to this function.

This PBS represents only the costs associated with the Program Support element of funding. The RU FTE profile assumes a constant level of 17 Federal (Program Direction) FTEs with fluctuating needs filled by Subcontractor personnel. The cost baseline associated with the Federal personnel is not included in this PBS but would be found in PBS RL-OT05.

Safety & Health Hazards:

The Office of Radiological, Nuclear, and Process Safety Regulation of the TWRS Privatization Contractors [the RU] provides DOE, Richland Operations Office (DOE-RL) the independent safety regulation of the TWRS Privatization (TWRS-P) Contractor. The aim of DOE with regard to the radiological, nuclear, and process safety regulation of the TWRS-P Contractor is to establish a regulatory environment that permits privatization to occur in a timely, predictable, and stable manner consistent with the concepts and principles of the U.S. Nuclear Regulatory Commission; and one that embraces the fundamental regulatory principles of independence, openness, efficiency, clarity, and reliability. Authority for RU activities is found in DOE/RL-96-25, Policy for Radiological Nuclear, and Process Safety Regulation of TWRS Privatization Contractors, approved by the Under Secretary of Energy. Lack of or improper regulatory authority by the DOE over the TWRS-P Contractor would violate the Atomic Energy Act and directly impact two major TPA milestones (M-51 & M-60) as well as the contractual obligations made between the DOE and the TWRS-P Contractor. There is currently no other regulatory body that could take over this activity if the RU were not funded.

Safety & Health Work Performance:

The responsibility of the RU is to provide safety regulation of the design, construction, operation and deactivation of privatized facilities to remediate a portion of the Hanford Site tank wastes. The basic concept of this approach is that the contractor is responsible for achieving adequate safety through (1) compliance with applicable laws and legal requirements, (2) conformance with DOE-stipulated top-level safety standards and principles, and (3) adherence to the process for establishing safety standards and requirements. Consistent with these requirements, the Contractor is required to tailor the exercise of this responsibility to the specific hazards associated with their activities.

A basis for TWRS Privatization is that the radiological, nuclear, and process safety assured through the DOE regulatory approach meets applicable law and is patterned specifically to control the hazards incident to the activities of the contractors. To achieve this, DOE expects that a set of essential safety standards will be identified and recommended by the contractor. This set, when implemented, will provide adequate safety when coupled with an assurance that the Contractor's activities are in compliance with applicable laws and conform to DOE's top-level radiological and nuclear safety standards. When DOE approves a set of essential safety standards, the set becomes the requirements which will be applied to the Contractor's activities. There are no unfunded or underfunded S&H resource requirements in the PBS.

PBS Comments:

The Regulatory Unit has been established in support of DOE self regulation of Phase I activities, to be followed by transition to NRC regulation of Phase II activities. The roles of RL, EH, and EM will facilitate the smooth implementation of the TWRS Regulatory program that embraces the fundamental regulatory principles of independence, openness, efficiency, clarity and reliability.

Baseline Validation Narrative:

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At the request of the Privatization Review Board, an independent technical assessment and critical analysis of the readiness of the Regulatory Unit to regulate Part B of the TWRS-P project was performed in April of 1998. A team of eleven federal employee and industry experts under the direction of DOE HQ/EH-3, Deputy Assistant Secretary for Nuclear and Facility Safety, assessed the RU against evaluation criteria in seven topical areas of organization/resources and regulatory framework. The team concluded that the RU met the evaluation criteria of the readiness review and was ready to regulate in Part B provided that identified weaknesses were addressed. The findings were published in Report DOE/EH-0569, transmitted to the RL Manager as an attachment to a May 1, 1998 memorandum from the Assistant Secretary for Environmental Management (EM-1). The memorandum and report can be located in the RMIS database (RL, Accession # D198087323).

General PBS Information

Project Validated? Yes **Date Validated:** 5/1/1998
Has Headquarters reviewed and approved project? Yes
Date Project was Added: 12/1/1997
Baseline Submission Date:
FEDPLAN Project? No

Drivers:	CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
	N	N	N	Y	N	Y	Y	Y

Project Identification Information

DOE Project Manager: D.C. Gibbs
DOE Project Manager Phone Number: 509-376-9936
DOE Project Manager Fax Number: 509-376-3661
DOE Project Manager e-mail address: d_c_clark_gibbs@rl.gov
Is this a High Visibility Project (Y/N):

Planning Section

Baseline Costs (in thousands of dollars)

1997-2006	2007-2070	1997-2070	1997	Actual	1998	Actual	1999	2000	2001	2002	2003	2004	2005	2006
Total	Total	Total		1997		1998								

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Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006
PBS Baseline (current year dollars)	53,104	0	53,104	4,600	3,704	4,935	4,865	5,041	5,662	6,526	4,000	4,093	4,913	7,819	5,515
PBS Baseline (constant 1999 dollars)	49,902	0	49,902	4,600	3,704	4,935	4,865	5,041	5,546	6,254	3,751	3,755	4,411	6,869	4,740
PBS EM Baseline (current year dollars)	53,104	0	53,104	4,600	3,704	4,935	4,865	5,041	5,662	6,526	4,000	4,093	4,913	7,819	5,515
PBS EM Baseline (constant 1999 dollars)	49,902	0	49,902	4,600	3,704	4,935	4,865	5,041	5,546	6,254	3,751	3,755	4,411	6,869	4,740

	2007	2008	2009	2010	2011- 2015	2016- 2020	2021- 2025	2026- 2030	2031- 2035	2036- 2040	2041- 2045	2046- 2050	2051- 2055	2056- 2060	2061- 2065	2066- 2070
PBS Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
0.00%	0.00%	0.00%	2.10%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%

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2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%

Project Reconciliation

Project Completion Date Changes:

Previously Projected End Date of Project: 9/30/2006

Current Projected End Date of Project: 7/16/2018

Explanation of Project Completion Date Difference (if applicable):

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	34,536	Actual 1997 Cost:	3,704	Actual 1998 Cost:	4,865
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	25,967	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):			701
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	26,668				

Project Cost Changes

	Cost Adjustments	Reconciliation Narratives
Cost Change Due to Scope Deletions (-):		
Cost Reductions Due to Efficiencies (-):		
Cost Associated with New Scope (+):		
Cost Growth Associated with Scope Previously Reported (+):		
Cost Reductions Due to Science & Technology Efficiencies (-):		
Subtotal:	26,668	
Additional Amount to Reconcile (+):	13,699	
Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	40,367	

Milestones

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Project **RL-RG01 / TWRS Regulatory Unit**

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
INDEPENDENT BASELINE ASSESSMENT	99-008	2/26/1999	2/26/1999			2/26/1999					
CAR GUIDANCE	99-010	3/30/1999	3/30/1999		5/1/1999						
GENERIC SAFETY APPROACH REVIEW	99-007	5/31/1999	5/31/1999								
ISMP/SRD REVIEW	99-013	5/31/1999	5/31/1999								
COMPLETE QAP REVIEW	99-014	9/30/1999	9/30/1999								
REVIEW RPP	99-011	11/30/1998	11/30/1998			11/30/1998					
UPDATE THE OPENNESS PLAN	00-002	6/30/2000	6/30/2000								
PREPARE AND SUBMIT FY2000 PMP	99-001	9/25/1999	9/25/1999								
UPDATE THE RU PUBLIC INTERACTION OPENNESS PLAN	99-004	6/30/1999	6/30/1999								
UPDATE THE REGULATORY PLAN	99-005	9/30/1999	9/30/1999								
ISSUE DETAILED GUIDANCE FOR BNFL OAR REVIEW	01-001	9/29/2004	9/29/2004								
PREPARE AND SUBMIT THE FY 2001 PMP	00-003	9/29/2000	9/29/2000								
COMPLETE QAP REVIEW	00-004	9/29/2000	9/29/2000								
PREPARE AND SUBMIT THE FY 2002 PMP	01-007	9/29/2001	9/29/2001								
COMPLETE QAP REVIEW	01-008	9/29/2001	9/29/2001								
UPDATE THE OPENNESS PLAN	01-006	6/30/2001	6/30/2001								
PREPARE AND SUBMIT THE FY 2003 PMP	02-003	9/29/2002	9/29/2002								
COMPLETE QAP REVIEW	02-004	9/29/2002	9/29/2002								
UPDATE THE OPENNESS PLAN	02-006	6/30/2002	6/30/2002								
PREPARE AND SUBMIT THE FY 2004 PMP	03-003	9/29/2003	9/29/2003								
COMPLETE QAP REVIEW	03-004	9/29/2003	9/29/2003								
UPDATE THE OPENNESS PLAN	03-002	6/30/2003	6/30/2003								

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PREPARE AND SUBMIT THE FY 2005 PMP	04-003	9/29/2004	9/29/2004								
COMPLETE QAP REVIEW	04-004	9/29/2004	9/29/2004								
UPDATE THE OPENNESS PLAN	04-002	6/30/2004	6/30/2004								
PREPARE AND SUBMIT THE FY 2006 PMP	05-003	9/29/2005	9/29/2005								
COMPLETE QAP REVIEW	05-004	9/29/2005	9/29/2005								
UPDATE THE OPENNESS PLAN	05-002	6/30/2005	6/30/2005								
PREPARE AND SUBMIT THE FY 2006 PMP	06-003	9/29/2006	9/29/2006								
COMPLETE QAP REVIEW	06-004	9/29/2006	9/29/2006								
UPDATE THE OPENNESS PLAN	06-002	6/30/2006	6/30/2006								
COMPLETE OPERATIONS AUTHORIZATION REQUEST REVIEW FOR BNFL	11-002	1/30/2006	1/30/2006								
COMPLETE SAP REVIEW FOR CAR	00-005	9/29/2000	9/29/2000								
Issue Revised Memorandum of Agreement	99-009	2/26/1999	2/26/1999		8/30/1999						
COMPLETE FSAR FOR OAR REVIEW	05-001	4/1/2005	4/1/2005								
COMPLETE CONSTRUCTION AUTHORIZATION FOR BNFL	02-002	8/31/2001	8/31/2001								
LCA REVIEW GUIDANCE	99-012	11/30/1998	11/30/1998		5/1/1999						
Begin TWRS Regulatory Unit Project	PBS-97-040		2/28/1997								
PBS Mission Completion	PBS-MC-040		7/16/2018								
PBS Project End	PBS-PE-040		7/16/2018								

Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
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Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
INDEPENDENT BASELINE ASSESSMENT	99-008									Y	
CAR GUIDANCE	99-010										This milestone is the creation of RU review Guidance for the Construction Authorization submittal by BNFL, Inc. Completion occurs when the Regulatory Official approves the guidance.
GENERIC SAFETY APPROACH REVIEW	99-007										The Generic Safety Approach is a Contractor deliverable that provides a generic description of the design safety features that will be incorporated into the waste treatment facility design. The milestone will be considered "complete" upon RU review and
ISMP/SRD REVIEW	99-013										An element of Cost Account RU606 is review of post Part A BNFL Standards Approval (SA) Package submittals. BNFL plans to revise the Safety Requirements Document and the Integrated Safety Management Plan to incorporate selected British Standards and make
COMPLETE QAP REVIEW	99-014										10 CFR 835 requires the Contractor to revise their QA Plan annually. The contract requires the RU to review and approve the Contractor's annual revision to this plan. This activity will complete upon the RU's approval of the revised BNFL QA Plan. The ap
REVIEW RPP	99-011										The Regulatory Unit is required to

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Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
UPDATE THE OPENNESS PLAN	00-002										review and approve the Contractor's Radiation Protection Plan (RPP). BNFL plans to submit their RPP for design early in October. Completion of the RU review of the BNFL RPP will occur approximately 60 days post submit
PREPARE AND SUBMIT FY2000 PMP	99-001										The Openness Plan describes the openness activities and associated schedule that will be used to perform this function. This will include the RU and DOE approach and general policy on public interactions, and the comment review and disposition process on
UPDATE THE RU PUBLIC INTERACTION OPENNESS PLAN	99-004										The PMP identifies the RU management approach and business systems that will be used to organize, plan, status, control, and report all program activities. The PMP is approved and issued by the RU Director.
UPDATE THE REGULATORY PLAN	99-005										The Openness Plan describes the openness activities and associated schedule that will be used to perform this function. This will include the RU and DOE approach and general policy on public interactions, and the comment review and disposition process on
											This plan defines tasks in accordance with the MOA and "definition" documents and defines the logical

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Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
ISSUE DETAILED GUIDANCE FOR BNFL OAR REVIEW	01-001										order of the tasks and their position in the overall regulatory schedule to be executed for the lifetime of the DOE regulation. The document is complete This milestone is the creation of RU review Guidance for the Operations Authorization submittal by BNFL, Inc. Completion occurs when the Regulatory Official approves the guidance.
PREPARE AND SUBMIT THE FY 2001 PMP	00-003										The PMP identifies the RU management approach and business systems that will be used to organize, plan, status, control, and report all program activities. The PMP is approved and issued by the RU Director.
COMPLETE QAP REVIEW	00-004										10 CFR 835 requires the Contractor to revise their QA Plan annually. The contract requires the RU to review and approve the Contractor's annual revision to this plan. This activity will complete upon the RU's approval of the revised BNFL QA Plan. The ap
PREPARE AND SUBMIT THE FY 2002 PMP	01-007										The PMP identifies the RU management approach and business systems that will be used to organize, plan, status, control, and report all program activities. The PMP is approved and issued by the RU Director.

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Operations/Field Office: **Richland**

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Project **RL-RG01 / TWRS Regulatory Unit**

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
COMPLETE QAP REVIEW	01-008										10 CFR 835 requires the Contractor to revise their QA Plan annually. The contract requires the RU to review and approve the Contractor's annual revision to this plan. This activity will complete upon the RU's approval of the revised BNFL QA Plan. The ap
UPDATE THE OPENNESS PLAN	01-006										The Openness Plan describes the openness activities and associated schedule that will be used to perform this function. This will include the RU and DOE approach and general policy on public interactions, and the comment review and disposition process on
PREPARE AND SUBMIT THE FY 2003 PMP	02-003										The PMP identifies the RU management approach and business systems that will be used to organize, plan, status, control, and report all program activities. The PMP is approved and issued by the RU Director.
COMPLETE QAP REVIEW	02-004										10 CFR 835 requires the Contractor to revise their QA Plan annually. The contract requires the RU to review and approve the Contractor's annual revision to this plan. This activity will complete upon the RU's approval of the revised BNFL QA Plan. The ap
UPDATE THE OPENNESS PLAN	02-006										The Openness Plan describes the openness activities and associated

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
PREPARE AND SUBMIT THE FY 2004 PMP	03-003										<p>schedule that will be used to perform this function. This will include the RU and DOE approach and general policy on public interactions, and the comment review and disposition process on</p> <p>The PMP identifies the RU management approach and business systems that will be used to organize, plan, status, control, and report all program activities. The PMP is approved and issued by the RU Director.</p>
COMPLETE QAP REVIEW	03-004										<p>10 CFR 835 requires the Contractor to revise their QA Plan annually. The contract requires the RU to review and approve the Contractor's annual revision to this plan. This activity will complete upon the RU's approval of the revised BNFL QA Plan. The ap</p>
UPDATE THE OPENNESS PLAN	03-002										<p>The Openness Plan describes the openness activities and associated schedule that will be used to perform this function. This will include the RU and DOE approach and general policy on public interactions, and the comment review and disposition process on</p>
PREPARE AND SUBMIT THE FY 2005 PMP	04-003										<p>The PMP identifies the RU management approach and business systems that will be used to organize, plan, status, control, and report all</p>

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
COMPLETE QAP REVIEW	04-004										<p>program activities. The PMP is approved and issued by the RU Director.</p> <p>10 CFR 835 requires the Contractor to revise their QA Plan annually. The contract requires the RU to review and approve the Contractor's annual revision to this plan. This activity will complete upon the RU's approval of the revised BNFL QA Plan. The ap</p>
UPDATE THE OPENNESS PLAN	04-002										<p>The Openness Plan describes the openness activities and associated schedule that will be used to perform this function. This will include the RU and DOE approach and general policy on public interactions, and the comment review and disposition process on</p>
PREPARE AND SUBMIT THE FY 2006 PMP	05-003										<p>The PMP identifies the RU management approach and business systems that will be used to organize, plan, status, control, and report all program activities. The PMP is approved and issued by the RU Director.</p>
COMPLETE QAP REVIEW	05-004										<p>10 CFR 835 requires the Contractor to revise their QA Plan annually. The contract requires the RU to review and approve the Contractor's annual revision to this plan. This activity will complete upon the RU's approval of the revised BNFL QA</p>

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
UPDATE THE OPENNESS PLAN	05-002										Plan. The ap The Openness Plan describes the openness activities and associated schedule that will be used to perform this function. This will include the RU and DOE approach and general policy on public interactions, and the comment review and disposition process on
PREPARE AND SUBMIT THE FY 2006 PMP	06-003										The PMP identifies the RU management approach and business systems that will be used to organize, plan, status, control, and report all program activities. The PMP is approved and issued by the RU Director.
COMPLETE QAP REVIEW	06-004										10 CFR 835 requires the Contractor to revise their QA Plan annually. The contract requires the RU to review and approve the Contractor's annual revision to this plan. This activity will complete upon the RU's approval of the revised BNFL QA Plan. The ap
UPDATE THE OPENNESS PLAN	06-002										The Openness Plan describes the openness activities and associated schedule that will be used to perform this function. This will include the RU and DOE approach and general policy on public interactions, and the comment review and disposition process on
COMPLETE OPERATIONS	11-002										The Operations Authorization

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
AUTHORIZATION REQUEST REVIEW FOR BNFL											Request (OAR) review when completed will permit negotiation of a Operations Authorization Agreement with BNFL to begin operations.
COMPLETE SAP REVIEW FOR CAR	00-005										This is a set of radiological and nuclear safety standards and requirements which if implemented, provides adequate protection of workers, the public and environment against hazards associated with the operation of the BNFL facility. Completion of the M
Issue Revised Memorandum of Agreement	99-009										This proposed revision 1) reflects the RU's reorganization to become more compatible with planned activities for Part B, and 2) incorporates the changes agreed upon with BNFL, Inc. to the four documents incorporated in Enclosure D of the MOA (i.e., the J-
COMPLETE FSAR FOR OAR REVIEW	05-001										This is a set of radiological and nuclear safety standards and requirements which if implemented, provides adequate protection of workers, the public and environment against hazards associated with the operation of the BNFL facility. Completion of the M
COMPLETE CONSTRUCTION AUTHORIZATION FOR BNFL	02-002										The Construction Authorization Request (CAR) review when completed will permit negotiation of a Construction Authorization

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LCA REVIEW GUIDANCE	99-012										Agreement with BNFL to begin construction. The LCA Review Guidance is developed for the RU to use in reviewing the BNFL's Limited Construction Authorization Request. Completion of the Limited Construction Authorization Review Guidance is when the Regulatory Official approves the guidance.
Begin TWRS Regulatory Unit Project	PBS-97-040			Y							Administrative input to document the start of this PBS.
PBS Mission Completion	PBS-MC-040					Y					Administrative input to document the mission completion of this PBS.
PBS Project End	PBS-PE-040				Y						Administrative input to document the project end of this PBS.