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RCT-PXP-009

Revision 0

Project Execution Plan for the CCP Basis of Interim Operation Update Project Test Program

EFFECTIVE DATE: 07/31/2006

[redacted]

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RECORD OF REVISION

Revision Number	Date Approved	Description of Revision
0	07/31/2006	Initial issue.

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1.0 PROJECT OVERVIEW

The purpose of the Basis for Interim Operation (BIO) for the Waste Isolation Pilot Plant (WIPP) Mobile Characterization Units (MCU) is to establish an umbrella safety basis for the use of WIPP Central Characterization Project (CCP) MCU to process Department of Energy (DOE) waste located at DOE or related sites. By meeting the requirements specified in the BIO and its associated Application Guide, a site can authorize Transuranic (TRU) waste characterization without performing additional analysis.

The BIO is required to be updated periodically to incorporate characterization equipment that is new to CCP's program as well as to ensure that all information and analysis for existing equipment are up to date. The purpose of this Project Execution Plan (PXP) is to oversee the completion of the BIO Update Project in accordance with all applicable DOE, Washington TRU Solutions (WTS), and CCP Quality Assurance (QA) and Procurement requirements.

The contract was awarded to [redacted] on 3/9/06.

A final updated BIO must be received by 7/31/06 with final approval for the supporting documentation completed before September 30, 2006.

2.0 CONTRACT OVERVIEW

The project tasks and deliverables to be provided are detailed in Table 1, Project Tasks and Deliverables. The characterization equipment to be either updated from Revision 1 of the BIO or are new to CCP's characterization program, and therefore will be new with Revision 2 of the BIO, are listed in Table 2, Characterization Units addressed in the BIO. The contract is a fixed price contract between WTS and [redacted]

2.1 Project Tasks and Deliverables

2.1.1 Project Tasks and Deliverables lists the tasks that are in the SOW associated with PO405718.

Table 1. Project Tasks and Deliverables

Task	Description	Due date	Status
1	Update Basis for Interim Operation for the Mobile Waste Characterization systems	7/31/06	In progress
2	Update Technical Safety requirements for the Mobile Waste Characterization systems	9/3/06	In progress
3	Create Application Guide for the Mobile Waste Characterization System Components in support of the Mobile Operations Authorization Basis	9/3/06	In progress
4	Provide all supporting documentation used to develop the BIO, Technical Safety Requirements, and Application Guide	9/3/06	In progress

2.2 Characterization Units addressed in the BIO

2.2.1 Characterization Units addressed in the BIO lists the characterization units to be addressed in Revision 2 of the BIO and whether they were previously in Revision 1 or are being added for the first time.

Table 2. Characterization Units addressed in the BIO

Equipment Name	In Rev 1 or New
Real-Time Radiography Unit #1 (RTR-1)	Rev 1
Real-Time Radiography Unit #2 (RTR-2)	Rev 1
Real-Time Radiography Unit #4 (RTR-4)	Rev 1
Real-Time Radiography Unit #5 (RTR-5)	Rev 1
Isotopic System (IQ3) Gamma Scanner	Rev 1
Integrated Gamma and Imaging Passive/Active Neutron/Gamma Energy Analysis Mobile Waste System Trailer (IPAN/GEA)	Rev 1
Mobile Characterization Services (MCS) Segmented Gamma Scanner (SGS)	Rev 1
High-Efficiency Neutron Counter (HENC)	Rev 1
Headspace Gas Sampling System Number IIA (HSGS-IIA) (Containerized)	Rev 1
Headspace Gas Sampling System Number IIB (HSGS-IIB) (Equipment in Work Box)	Rev 1
Drum Venting System #1 – Headspace Gas Sampling System (DVS-1)	Rev 1
Drum Venting System #2 – Headspace Gas Sampling System (DVS-2)	Rev 1
Mobile Visual Examination and Repackaging (MOVER)	Rev 1
Mobile TRUPACT Loader Unit (MLU)	Rev 1
Headspace Gas Sampling System – Summa	New – Rev 2
Tomographic Gamma Scanner	New – Rev 2
Real-Time Radiography Unit #3	New – Rev 2
55 gal Gas Generation Testing (GGT) units (38)	New – Rev 2
Super High-Efficiency Neutron Counter (SuperHENC)	New – Rev 2
ISOCS – In-Situ Object Counting System	New – Rev 2
DRMI - Dose Rate Measurement Instrument	New – Rev 2

3.0 PROJECT ORGANIZATION

3.1 The primary project participants are shown in Figure 1, Primary Project Participants. Other resources will be brought in as necessary from the WIPP site or elsewhere if required.

4.0 PROJECT ADMINISTRATION

5.0 PROJECT BUDGET AND SCHEDULE

5.1 Budget

5.1.1 The purchase order history with associated dollar amounts is detailed in Table 3, PR405718 Change History below.

Table 3. PR405718 Change History

Purchase Order (PO) or Change Notice	Date	Total PO Amount	
Original Purchase Order	3/9/06	[redacted]	Original PO
Change Notice #1	4/19/06	Added [redacted]	Change notice adding the In-Situ Object Counting System (ISOCS) and the Dose Rate Measurement Instrument [DRMI of Remote Handled Assay Turntable (RHAT)]

5.2 Schedule

5.2.1 Figure 2, BIO Update Project Completion Schedule is the completion schedule for the items to be completed per the SOW for PO405718.

Figure 2. BIO Update Project Completion Schedule

Activity	3/9/2006	April	May	June	7/31/2006	August	9/30/2006
Contract Awarded on 3/9/06 [redacted] begins system walkdowns of equipmentand generation of required documentation.							
BIO Update due by 7/31/06.							
Technical Safety Requirements for Mobile Waste Characterization Systems.							
Application Guide for thr Mobile Waste Characterization System Components in support of the Mobile Operations Authorization Basis.							
Submittal of all supporting documentation used to develop the BIO, Technical Safety Requirements, and Application Guide.							

6.0 PROJECT RESOURCES

Project resources consist of the personnel detailed in Section 3.0 Project Organization.

7.0 UNIQUE PROJECT CONSIDERATIONS

There are no unique project considerations for the BIO Update Project.

8.0 ENGINEERING AND DESIGN

CCP and WIPP site resources as well as subcontracted services, if required, will be utilized for all engineering and QA reviews.

9.0 PROCUREMENT AND MATERIALS MANAGEMENT

There are no procurements of materials associated with the BIO Update Project.

10.0 PROJECT CONTROLS

The project control system seeks to be responsive to internal management requirements and provide WIPP participants with increased cost and schedule performance visibility of the accomplishment of project objectives. In addition to providing a formal integrated schedule and resource plan, the management control system provides analysis of planned versus actual performance and early detection or prediction of problems that require management attention.

In summary, the WIPP Project Control System provides for:

- Organization: Contractual efforts are established and responsibilities assigned for the work.
- Planning and Budgeting: Work is formally planned, scheduled, budgeted and authorized.

  Accounting: Costs of work and material are accumulated.

  Analysis: Planned and actual performance is compared and variances analyzed.
- Revisions and Access to Data: Estimates of final costs are developed along with methods to incorporate baseline changes in these estimates.
- Risk Management: Describes the WIPP risk identification, assessment, mitigation, and monitoring process.

The Carlsbad Field Office (CBFO) of Business is responsible for interpreting the requirements of this document as they apply to a particular program situation and for maintaining and updating this document, including coordinating changes with other project participants when appropriate.

The CBFO Baseline is actually comprised of three baselines that integrate the schedule, cost, and performance measures for the site. These baselines are as follows:

- Schedule Baseline: The Integrated Project Schedule is the primary controlled schedule from which schedule performance is measured. It is used to status and update summary level schedules. Only changes authorized through the Baseline Change Control process are incorporated into the schedule baseline.

- Cost Baseline: Contract funding levels, contained in the fiscal year (FY) program guidance letter from CBFO plus approved changes, are allocated to Cost Account Plans (CAPs), developed at Level 5 of the Work Breakdown Structure (WBS), to form the cost baseline.

- Performance Measurement Baseline: The Performance Measurement Baseline (PMB) is the time phased budget plan against which cost and schedule performance are measured. The resource loaded schedule activities contained in the Complex Wide Integration Tool (CWIT) form the basis of the PMB.

This PXP addresses the detailed project scope and schedule for the BIO Update Project. Formal processes are established and documented in this PXP for communications, configuration control, and issues management. The PXP will be controlled by the designated Project Manager to ensure that revisions are processed and approved by appropriate parties; that distribution is maintained, and that associated changes are maintained for record purposes.

11.0 PROJECT QUALITY PLAN

All work shall be performed under the [redacted] QA Program. In the event that full compliance with any requirement is in question, WTS may opt to implement that requirement through increased involvement through "dedicated quality" under the auspices of the WTS QA Program.

The Subcontractor shall, upon WTS request, submit quality program documentation that includes, but is not limited to, the Subcontractor's QA Manual, QA procedures, internal audit reports, etc. The Subcontractor shall grant WTS, or its designee, rights of access to Subcontractor's facilities and records for inspection or audit.

QA requirements, including the QA Program, Engineering Design Program, Inspection Requirements, Personnel Qualification, Quality Clauses, and Documentation Requirements shall be the primary basis for submittals and deliverables. Quality Clauses applicable to the test program are delineated in the SOW.

12.0 CONSTRUCTION

There is no construction associated with the BIO Update Project.

13.0 COMMISSIONING AND START-UP

There is no commissioning and startup associated with the BIO Update Project.

14.0 ENVIRONMENT, SAFETY AND HEALTH (ES&H)

Achieving successful project completion demands implementation and integration of safe work performance, environmental stewardship, and quality into the management and performance of project work. The primary objective is to deliver the project work scope with no safety incidences or injuries. The successful integration of these compliance elements is vital for successful project completion.

To help ensure project performance and compliance, training of personnel in their specific project requirements and responsibilities is required in accordance with the following safety principles:

14.1 Integrated Safety Management System (ISMS)

The DOE ISMS is an integrated approach to ensure that work is planned, analyzed, reviewed, approved, and executed in a safe manner and that safety is continuously improved through worker feedback. Five core functions of ISMS form the basis for working safety: 1) define the scope of work, 2) identify and analyze the hazards, 3) identify and implement controls, 4) do the work, and 5) provide feedback throughout the process.

14.2 Environmental Compliance

The Project will comply with governing regulations, agreements, and orders under the contract applicable to the test facility. At a minimum, project activities will be evaluated for consistency with Resource Conservation and Recovery Act (RCRA) and compliance with applicable water, air, waste, and natural resources requirements.

15.0 RISK MANAGEMENT PLAN

WTS managers involved in project execution participate in the identification and assessment of program risks. They review program documents, evaluate lessons learned, and use brainstorming and their own experience to identify risks. Project risks are identified in the following areas:

- Cost and Schedule
- Technical
- Programmatic (Obtaining and utilizing resources outside the control of the program manager)
- Support
- Safety
- Regulatory/Permitting
- Site specific (Including alternative site locations)

Once risks are identified, WTS categorizes the identified risks by probability and severity (consequences) of each event.

After risks have been identified and categorized, a risk management approach and mitigation actions are developed for each High and Medium risk. For Low risk elements not judged to require documented mitigation actions, WTS Managers assure that they are controlled through the normal management functions and work processes. All risks and mitigation actions are identified in the CBFO Risk Management Plan, which is updated annually.

In order to determine the effectiveness of the Risk Management Plan, the areas of Medium and High risks are monitored and statused during monthly program meetings with CBFO. In addition, periodic reassessments of programs are performed to determine if new areas of risk need to be identified and assessed.

16.0 PROJECT CLOSEOUT

The BIO Update Project is scheduled to be closed out on or before 9/30/06.

17.0 PROJECT PROCEDURES

No procedures apply to the BIO Update Project.