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Project Execution Plan for CCP Long-Term Objective for Waste Stream ID-RF-S3114

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1.0 PROJECT OVERVIEW

1.1 Project Description

This project is directed towards implementation of the long-term objective (LTO) of the Unified Flammable Gas Test Procedure (UFGTP) specified in CCP-PO-003, *Transuranic Waste Authorized Methods for Payload Control* (CH-TRAMPAC), as applied to Rocky Flats Immobilized Organic Liquids stored at the Idaho National Laboratory (INL), Waste Stream ID-RF-S3114. This project will support shipment of most containers in the ID-RF-S3114 waste stream using parameters determined from a representative sample of the waste stream population without requiring gas generation testing of every individual container being shipped.

1.2 Project Scope

The LTO of the UFGTP, as described in CCP-PO-003, is to increase efficiency in demonstrating required eligibility criteria for shipment of specific populations of waste containers with consistent gas generation properties. Specifically, containers identified by process knowledge or other characterization activities as having or expected to have similar gas generation characteristics are grouped into one population, and only a representative subpopulation is subjected to gas generation testing (GGT) in order to establish conservative bounds for the flammable gas generation properties of the full population to be used in demonstrating container qualification for shipment.

1.3 Primary Applicable Reference Documents

- CCP-PO-003, *CCP Transuranic Waste Authorized Methods for Payload Control* (CH-TRAMPAC)
- CCP-PO-016, *CCP Gas Generation Testing Program Quality Assurance Project Plan*
- CCP-TP-138, *CCP Execution of Long-Term Objective for the Unified Flammable Gas Test Procedure*

2.0 CONTRACT OVERVIEW

2.1 Project Goals and Objectives

The project objective is to generate the required data and documentation to implement the LTO for containers of TRU immobilized organic liquids assigned to Waste Stream ID-RF-S3114. The goal is to fully implement the LTO program for shipment of S3114 containers commencing in July 2006. No specific cost estimates or separate budget have been established for the project except the expectation that it will be accomplished within current Retrieval, Characterization, and Transportation (RCT) Program funding.

2.2 Project Scope

The LTO of the UFGTP, as described in CCP-PO-003, is to increase efficiency in demonstrating required eligibility criteria for shipment of specific populations of waste containers with consistent gas generation properties. Specifically, containers identified by process knowledge or other characterization activities as having or expected to have similar gas generation characteristics are grouped into one population, and only a representative subpopulation is subjected to GGT in order to establish conservative bounds for the flammable gas generation properties of the full population to be used in demonstrating container qualification for shipment.

3.0 PROJECT ORGANIZATION

The project is organized for execution within the Central Characterization Project (CCP), a division of the Retrieval, Characterization, and Transportation (RCT) Department of Washington TRU Solutions (WTS). The LTO Project Manager (PM) reports directly to the CCP Manager regarding project status and attainment of project milestones and objectives. The following personnel provide ancillary support for the LTO Project Manager in project execution as described in Project Administration (Section 4.0):

- Project Sponsor – [redacted]
- Site Project Manager (SPM) designated as LTO PM – [redacted]
- INL Vendor Project Manager (VPM) – [redacted]
- Independent SPM (an SPM separate from LTO PM) – [redacted]
- Facility Records Custodian – [redacted]

4.0 PROJECT ADMINISTRATION

4.1 Key Project Personnel and Responsibilities

4.1.1 SPM designated as LTO PM

The LTO PM should be, or have access to the services of, a qualified statistician holding an advanced degree at the MS level or higher in statistical or related scientific or mathematical disciplines.

Coordinates the interface and timing of project office evolutions supporting UFGTP LTO.

Develops and issues UFGTP LTO Population Identification Reports for pre-selected population groups of Waste Stream ID-RF-S3114 containers.

Develops and issues UFGTP LTO Subpopulation Selection Reports identifying required sampling subpopulations and container selection guidance for use by the Site VPM in collecting GGT data for designated containers.

Using the appropriate site-generated GGT and Headspace Gas (HSG) Analysis data, the LTO PM performs the calculation of required subpopulation statistics and issues the UFGTP LTO Subpopulation Data Evaluation Report associated with each population of Waste Stream ID-RF-S3114 containers.

Prepares the UFGTP LTO Summary Report for each affected population group of Waste Stream ID-RF-S3114 containers.

4.1.2 CCP INL VPM

Provides overall direction and oversight for the proper collection of required GGT data for UFGTP LTO subpopulation containers based on selection guidance provided by the LTO PM.

4.1.3 Independent Site Project Manager (ISPM)

Performs the independent technical adequacy review of the UFGTP LTO Summary Reports.

4.1.4 Facility Records Custodian

The Facility Records Custodian receives and maintains formal custody of original documents specified above and generated in accordance with the applicable program directives.

5.0 PROJECT BUDGET AND SCHEDULE

5.1 Budget

The CCP LTO for Waste Stream ID-RF-S3114 will be performed using existing funding for currently emplaced personnel and integrated within the framework of their normal work requirements. No additional budget requirements are anticipated. Successful project execution is expected to result in programmatic cost savings due to the resultant reduction in the number of GGT operations required to support certification for transportation of the full population of containers in the ID-RF-S3114 waste stream. Cost savings cannot be specifically enumerated until project completion.

5.2 Schedule

The project is planned to be executed in two phases. Phase-I will establish the LTO statistics and parameters for an initial population of ID-RF-S3114 waste stream containers identified through the CCP Acceptable Knowledge (AK) containers tracking program as of approximately January 25, 2006. Phase-II will collect additional data for containers identified as of the completion of Phase-I to establish combined LTO statistics and parameters to apply for all containers in waste stream ID-RF-S3114 through completion of shipping activities from Idaho. The expected completion dates for Phases I and II are July 31, 2006 and October 31, 2006, respectively.

6.0 PROJECT RESOURCES

The project resources consist entirely of existing CCP personnel and equipment managed under that program. Duties and responsibilities within the project are performed as collateral assignment for project personnel in conjunction with their other duties within CCP. Specific personnel resources are identified in Project Administration, Section 4.0. The LTO PM will require access to a standard "off-the-shelf" (OTS) software package capable of performing Bootstrap statistical analyses in support of the LTO. No additional materiel resources beyond those normally available in the daily working environment are expected to be required for other project personnel.

7.0 UNIQUE PROJECT CONSIDERATIONS

There are no unique project considerations associated with this plan. The plan will be executed within the existing communications and personnel interaction framework established in CCP and between CCP and the Transportation Division of RCT.

8.0 ENGINEERING AND DESIGN

There are no engineering requirements associated with this plan. Performance of the required statistical analyses will be conducted in accordance with good statistical practices. Data collection is performed in accordance with existing approved CCP GGT operating procedures and plans.

9.0 PROCUREMENT AND MATERIALS MANAGEMENT

The only procurement action required specifically for the project is the purchase of a standard OTS software package capable of performing Bootstrap statistical analyses in support of the LTO.

10.0 PROJECT CONTROLS

In addition to providing a formal integrated schedule and resource plan, the project management control system will provide as-needed analysis of planned versus actual performance and early detection or prediction of problems that require management attention.

11.0 PROJECT QUALITY PLAN

The CCP LTO for Waste Stream ID-RF-S3114 Project will comply with CCP's Quality Assurance (QA) program defined in CCP-PO-001, *CCP Transuranic Waste Characterization Quality Assurance Project Plan*.

12.0 CONSTRUCTION

There are no construction requirements directly associated with or resulting from this plan.

13.0 COMMISSIONING AND START-UP

The project does not involve commissioning and start-up activities.

14.0 ENVIRONMENT, SAFETY, AND HEALTH

The project will comply with all applicable federal and state laws and regulations and with all WTS rules and policies. All environmental, safety, and health reporting requirements are included in existing WTS and site procedures.

15.0 RISK MANAGEMENT PLAN

Risks specific to this project are identified in the following areas:

- Schedule: The project schedule can be adversely impacted by any of the other identified risk factors.
- Technical: Emergent GGT equipment materiel conditions affecting function and/or safety.
- Programmatic: Reduction in priority and/or redirection of project resources outside the control of the PM.

As specific risks are identified, appropriate mitigation actions will be developed as feasible to reduce adverse impact on cost and schedule. The reasons and need for mitigation will be reported to the next higher level of management and the effectiveness of mitigation actions will be frequently assessed and similarly reported.

Risk of Adverse Impact to CCP Program Execution:

In the event any of the values determined by the UFGTP LTO Project exceed the transportation shipping limits applicable to any ID-RF-S3114 container configuration, affected containers will require appropriate shipping configuration modification before shipment to WIPP. Such modifications may include any or all of the following:

- Reduction in internal layers of confinement,
- Replacement/augmentation of vent filters for higher diffusivity,
- Repackaging into other less-restrictive configurations, and/or
- Reducing the maximum number of containers per shipment.

16.0 PROJECT CLOSEOUT

The CCP LTO for Waste Stream IN-RF-S3114 Project will be considered closed once the entire waste stream container population has been appropriately characterized with respect to gas generation properties related to the waste transportation regulatory requirements. No formal project closeout is planned unless and until all ID-RF-S3114 waste stream containers have completed shipment to the Waste Isolation Pilot Plant (WIPP).

17.0 PROJECT PROCEDURES

The Document Control organization under RCT provides full-time, subcontracted document services to CCP. Document Control performs document control and technical and operating support for CCP.

All records generated during the characterization processes for Waste Stream ID-RF-S3114 are transmitted to and maintained at the CCP Project Office in Carlsbad. Records generated for the CCP LTO Project will also be maintained in Carlsbad.