

# CHPRC EDC (ENGINEERING DOCUMENT CHANGE) FORM

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200W P&T - Less than Haz Cat 3 - SGW-40032  
ETF/LERF - Less than Haz Cat 3 per W.W. Rutherford

## Approvals

11. EDC Originator	DATA	Engineering Management/TA Manager
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Print/Signature/Date	Print/Signature/Date	Print/Signature/Date

**ADD ROW**

## 12. Document Index

TD/MC per email 06/11/2019

Action	Number	Title	Rev (being issued)	Change Page(s)	Config. Baseline
DR	PRC-ICD-OHCs-00001	INTERFACE CONTROL DOCUMENT <del>PRC-ICD-OHCs-00001, Rev. 1</del> , between CH2M HILL Plateau Remediation Company and Washington River Protection Solutions LLC for Leachate Transfer from ERDF to Liquid Treatment Facilities	1	All	<input type="checkbox"/> <input checked="" type="checkbox"/>

## 13. Potentially Affected Documents Not Modified By This EDC:

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TD/MC per email 06/13/2019

# **Interface Control Document between CH2M HILL Plateau Remediation Company and Washington River Protection Solutions LLC for Leachate Transfer from ERDF to Liquid Treatment Facilities**

Prepared for the U.S. Department of Energy  
Assistant Secretary for Environmental Management

Contractor for the U.S. Department of Energy  
under Contract DE-AC06-08RL14788

**CH2MHILL**  
Plateau Remediation Company

**P.O. Box 1600  
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# Interface Control Document between CH2M HILL Plateau Remediation Company and Washington River Protection Solutions LLC for Leachate Transfer from ERDF to Liquid Treatment Facilities

Document Type: ICD      Program/Project: S&GRP

B. A. Wolfe  
CH2M HILL Plateau Remediation Company

Date Published  
June 2019

Prepared for the U.S. Department of Energy  
Assistant Secretary for Environmental Management

Contractor for the U.S. Department of Energy  
under Contract DE-AC06-08RL14788

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**APPROVED**  
By Janis D. Aardal at 2:00 pm, Jun 13, 2019

Release Approval

Date



Release Stamp

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INTERFACE CONTROL DOCUMENT

PRC-ICD-OHCs-00001, Revision 1

between

CH2M HILL Plateau Remediation Company


and

Washington River Protection Solutions LLC

for

Leachate Transfer from ERDF to Liquid Treatment Facilities

Approved by:

  
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Operations, Director


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## **1.0 SCOPE**

### **1.1 System Purpose**

This Interface Control Document (ICD) provides the physical and administrative requirements for interfaces between the Environmental Restoration Disposal Facility (ERDF) and 200W Pump & Treat (200W P&T) operated by CH2M HILL Plateau Remediation Company (CHPRC) and the Effluent Treatment Facility (ETF)/Liquid Effluent Retention Facility (LERF) operated by Washington River Protection Solutions LLC (WRPS). The ICD identifies requirements and responsibilities, applicable references, acceptance standards, subsystem requirements, and other relevant information. The objective of this ICD is to ensure that the technical integrity of structures, systems, and components (SSC) at the physical and functional boundaries are properly managed. This document describes the configurations and interfaces for leachate transfers from ERDF to a liquid treatment facility.

In May 2016, the 200W P&T facility began accepting ERDF leachate for treatment, making it the primary treatment facility for ERDF leachate. The capability for transfer to ETF/LERF has been maintained as a contingency.

The activities in this agreement will be performed in accordance with the terms and conditions of CHPRC Prime Contract DE-AC06-08RL14788 and WRPS Prime Contract DE-AC27-08RV14800. Additionally, work is to be performed within the bounds of the agreements established by Memorandum of Agreement Number MOA-WRPS-CHPRC-2009, between CHPRC and WRPS.

### **1.2 Interface Overview**

As directed by DOE-RL, CHPRC installed a transfer line from ERDF to the 200W P&T. This line uses the existing ERDF transfer line from the ERDF Pump House (6618C) up to CMP PIT UP1-4. A new High Density Polyethylene (HDPE) pipeline was installed from the unused portion of the ERDF transfer line running west from CMP UP1-4 at the 200W P&T Tie-In to 200W P&T. In addition, CHPRC upgraded the ERDF Pump House by replacing two pumps and installing an input/output (I/O) panel and two adjustable frequency drives (AFDs) to provide the performance capability to transfer leachate to 200W P&T or to ETF/LERF. CHPRC designed the transfer line using appropriate design characteristics necessary to maintain the capability to transfer leachate to the ETF/LERF as an ongoing alternative means of leachate treatment.

In fiscal year 2016, the River Corridor Closure Contract (RCCC) performed by Washington Closure Hanford (WCH), was completed. Portions of the remaining RCCC scope were transitioned to the Plateau Remediation Contract (PRC), performed by CHPRC. ERDF Operations transitioned from WCH to CHPRC in September 2016. Revision 1 of this ICD, removes WCH as a signatory, addresses the changes in contractor responsibility for ERDF Operations, and focuses on the interface between WRPS and CHPRC for contingency leachate transfers from ERDF to ETF/LERF.

Transfers from ERDF to ETF/LERF may utilize a dedicated transfer system that commences at the ERDF Leachate Pump House (6618C) through a buried dedicated line including 38 valve pits ending at the LERF basins, or by tanker truck. The buried line is called the ERDF Leachate Transfer Line, and the Groundwater Transfer System (GTS). Oversight for transfers to ETF/LERF is provided by WRPS starting outside and running east from CMP PIT UP1-4.

## 2.0 RESPONSIBILITIES/REQUIREMENTS

This ICD is subordinate to the current respective Prime Contracts. The terms and conditions contained in the Contractors' prime contracts and other agreements applicable to the respective parties shall prevail over any conflicts and conflicting terms and conditions herein.

### 3.0 INTERFACE INFORMATION

#### 3.1 Physical Interfaces

The physical interfaces for transferring ERDF leachate to ETF/LERF and 200W P&T are shown in Attachment A.

#### **CHPRC:**

##### *ERDF Responsibilities:*

- ERDF is responsible for the maintenance and operations (M&O) of:
  - The leachate collection system at ERDF
  - The ERDF Leachate Pump House (6618C), except the adjustable frequency drives (AFD) and associated control system, and the ERDF transfer line up to, but excluding, the CMP Pit UP1-5.
- ERDF leachate transfers to ETF/LERF are performed as a contingency, upon request by ERDF. ERDF and ETF/ LERF will monitor the transfers to ETF/LERF. This contingent transfer may be executed via the transfer line, or by tanker truck. If the transfer is via truck, CHPRC trucks and drivers will be utilized.

##### *200W P&T Responsibilities:*

- 200W P&T is responsible for the M&O of:
  - The new HDPE transfer line starting at 200W P&T Tie-In to 200W P&T.
  - The AFDs and the associated control system at the ERDF Leachate Pump House (6618C).
  - The ERDF buried leachate transfer line commencing with CMP Pit UP1-5, the pipeline, valves (e.g. 80F-110, 80F-111, 80F-023, 80F-024, 80F-025), instrumentation, and pits up to and including the flow meter vault through CMP Pit UP1-4, running west to the new HDPE line to 200W P&T and includes the capped leg of the GTS running west from the new HDPE line. 200W P&T is responsible for the valve alignments on this pipeline necessary to transfer leachate to 200W P&T and to ETF/LERF.

#### **WRPS:**

- ETF/LERF is responsible for the M&O of:
  - The transfer line, starting outside of CMP PIT UP1-4, running east to the LERF Basins. This includes the valves, instrumentation, and pits associated with this portion of the transfer line 80F-001-P1 (WIDS 600-399-PL). ETF/LERF is responsible for valve alignments on this pipeline necessary to transfer leachate to ETF/LERF.
  - ETF/LERF will retain active procedures and the ability to accept, store, and treat the ERDF leachate, on a contingent basis, should there be an operational shutdown of the 200W P&T facility. This contingent transfer may be executed via



the transfer line, or by tanker truck. If the transfer is via truck, CHPRC trucks and drivers will be utilized.

## 3.2 Administrative Interfaces

### 3.2.1 Work Processes and Procedures

#### CHPRC ERDF

- ERDF will transfer leachate, as a contingency, to ETF/LERF using ERDF Work Control Procedures.
- ERDF will provide a Waste Profile Sheet in accordance with Liquid Waste Processing Facilities Waste Acceptance Criteria (WRPS 2016) prior to any transfers to ETF/LERF. ERDF will review and provide work authorization and release using CHPRC procedures/policies to non-ERDF resources performing work at the ERDF Leachate Pump House.
- ERDF is responsible, as the Controlling Organization Administrator (COA), for Lock out/Tag out (LOTO) at the ERDF using CHPRC procedures/policies, with ERDF assigned resources.

#### WRPS ETF/LERF

- ETF/LERF will retain active procedures to accept, store, and treat the ERDF leachate, on a contingent basis, should there be an operational shutdown of the 200W P&T facility.

### 3.2.2 Communications

1. Notification Coordination
  - For transfers from ERDF to ETF/LERF
    - ERDF shall contact the ETF Work week Manager and give at least 14 calendar days advance notice of a transfer. The 14 days minimum begins upon receipt of the signed Waste Profile Sheet with associated data. ETF/LERF is a “ready to serve” facility and is staffed to receive ERDF waste with adequate notice.
    - ERDF shall contact the 200W P&T Operations Manager to request valve alignments necessary for leachate transfer to ETF/LERF.
2. Off normal notifications/Emergency/Alarm response
  - For transfers from ERDF to ETF/LERF, ERDF shall contact the ETF Shift Operations Manager for any off normal response or notifications.
  - ERDF is responsible for reporting to EPA any suspected leak exceeding the criteria called out in the ERDF Leachate and Washwater Management Plan (CP-60072).
  - ETF/LERF, ERDF and 200W P&T are responsible for their respective regulatory and environmental notifications related to facilities/equipment that they own/operate as listed in section 3.1.

### 3.2.3 Sampling, Analysis, and Acceptance Criteria

Sampling, analysis, and acceptance criteria for the receipt of leachate at ETF/LERF are specified in the ERDF Leachate and Sampling Analysis Plan (WCH-173, Rev 2 [CP60070]), Liquid Waste Processing Facilities Waste Acceptance Criteria (WRPS 2016), ETF/LERF waste acceptance procedures, and ERDF Record of Decision (ROD).

#### **4.0 CONFIGURATION MANAGEMENT**

This ICD will be maintained under configuration control. The signatures on this document indicate agreement between WRPS and CHPRC that this document reflects the current technical baseline for each system and that the responsibilities and requirements contained in this document will not be revised without the agreement of the parties.

Modifications or maintenance to Systems, Structures, and Components shall be documented using approved WRPS and CHPRC procedures with the affected parties concurring with the change relevant to the interfaces defined in section 3.1.

Any mutually agreed upon changes will be incorporated into this agreement and approved at the same level as this original agreement.

#### **5.0 POINTS OF CONTACT**

200W P&T On call Manager – 509-713-4866

ERDF Disposal Manager: S. L. Eng 509-308-2303

ERDF Operations Manager: D. A. Duranceau 509-947-1651

ETF Shift Manager: 529-373-0993 or ETF Manager: D. A. Vasquez 509-528-4700

For issues or modifications to this Interface Control Document:

CHPRC – Kevin Kjarmo @ 376-4901

WRPS – Jeff Van Meighem @ 373-7333

#### **6.0 REFERENCES**

WRPS, 2016, Liquid Waste Processing Facilities Waste Acceptance Criteria, HNF-3172, Rev. 8, CH2MHILL Plateau Remediation Company, Richland, Washington.

EPA/ROD/R10-95/100, 1995, *Declaration of the Record of Decision for the USDOE Hanford Environmental Restoration Disposal Facility, Hanford Site, Benton County, Washington*, U.S. Environmental Protection Agency, Washington State Department of Ecology, and U.S. Department of Energy, Olympia, Washington. Available at: <http://www.epa.gov/superfund/sites/rods/fulltext/r1095100.pdf>.

EPA/AMD/R10-99/038, 1999, *Record of Decision Amendment: U.S. Department of Energy Environmental Restoration Disposal Facility Hanford Site – 200 Area Benton County, Washington*, U.S. Environmental Protection Agency, Washington State Department of Ecology, and U.S. Department of Energy, Seattle, Washington. Available at: <http://www.epa.gov/superfund/sites/rods/fulltext/a1099038.pdf>.

EPA/AMD/ 2015, *Explanation of Significant Differences: U.S. Department of Energy Environmental Restoration Disposal Facility Hanford Site – 200 Area Benton County, Washington*, U.S. Environmental Protection Agency, Washington State Department of Ecology, and U.S. Department of Energy, Seattle, Washington.

PRC-PRO-EN-2001, Facility Modification Package Process, as amended, CH2M HILL Plateau Remediation Company, Richland, Washington.

PRC-PRO-MS-10472, Interface Management, as amended, CH2M HILL Plateau Remediation Company, Richland, Washington.

CP-60070 *Environmental Restoration Disposal Facility Leachate and Sampling Analysis Plan, formerly WCH-173*, Current version, CH2M HILL Plateau Remediation Company, Richland, Washington.

CP-60072, *Environmental Restoration Disposal Facility Leachate and Washwater Management Plan, formerly WCH-182*, Current version, CH2M HILL Plateau Remediation Company, Richland, Washington.

