



DEPARTMENT OF
ECOLOGY
State of Washington

STATEMENT OF BASIS

**Proposed Permit Modification of the
*Hanford Facility Resource Conservation and Recovery Act Permit, Dangerous Waste
Portion, Revision 8C, for the Treatment, Storage, and Disposal of Dangerous Waste,
Part III, Operating Unit Group 10, Waste Treatment and Immobilization Plant,
WA7890008967***

May 2017

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STATEMENT OF BASIS

Proposed Permit Modification of the *Hanford Facility Resource Conservation and Recovery Act Permit, Dangerous Waste Portion, Revision 8C, for the Treatment, Storage, and Disposal of Dangerous Waste,* Part III, Operating Unit Group 10, Waste Treatment and Immobilization Plant, WA7890008967

Permittees

United States Department of Energy
Office of River Protection
PO Box 450
Richland, Washington 99352

Bechtel National, Inc.
2435 Stevens Center Place
Richland, Washington 99354

The Washington State Department of Ecology (Ecology) developed this Statement of Basis to fulfill the requirements of Washington Administrative Code (WAC) 173-303-840(2)(f)(iv).

The Statement of Basis provides information on Ecology's decision to modify the *Hanford Facility Resource Conservation and Recovery Act Permit, Dangerous Waste Portion, Revision 8C, for the Treatment, Storage, and Disposal of Dangerous Waste*, Part III, Operating Unit Group 10, Waste Treatment and Immobilization Plant (WTP), hereafter called the "WTP Permit."

This permit modification includes supporting technical information and engineering drawings for the design and construction of the secondary containment of the Effluent Management Facility (EMF) within the WTP.

The EMF is being built to support the Direct Feed Low Activity Waste (DFLAW) configuration. The EMF allows for the processing of waste at the Low Activity Waste (LAW) Vitrification Facility and Analytical Laboratory to start prior to the operation of the High-Level Waste (HLW) and Pretreatment (PT) Facilities. This DFLAW configuration feeds waste directly from the Low-Activity Waste Pretreatment System (LAWPS) to the LAW Facility. When the PT and HLW Vitrification facilities become operational, WTP will change to the baseline configuration. When the WTP is operating in the baseline configuration, it is anticipated that the EMF will not be operated. However, it will remain in standby until the treatment of the waste has been completed. DFLAW operations are designed to operate for ten years. This allows time to resolve technical issues with the HLW and PT processes and finish the construction of those facilities.

This proposed permit modification incorporates technical detail in the chapters within the WTP Permit. Ecology has drafted an Interim Compliance Schedule for EMF that is specific to the design, construction and eventual operations of the facility. Ecology has also drafted associated permit conditions and included them with this draft modification. Additionally, the appendices and figures have been revised, supporting information has been incorporated and format changes have been addressed where needed, in this modification.

Ecology chose to prepare a Statement of Basis as described in WAC 173-303-840(2)(f)(iv), rather than a Fact Sheet.

We prepared a Statement of Basis for previous major WTP permit modifications. This process will be followed for all permit modifications that incorporate similar design package information and other changes to the WTP Permit Conditions.

This Statement of Basis is divided into four sections:

- 1.0 Hanford Facility Resource Conservation and Recovery Act Permit (Site-wide Permit).
- 2.0 The WTP Permitting Process.
- 3.0 Procedures for Reaching a Final Decision on the Draft WTP Permit Modification.
- 4.0 Proposed Modifications to the WTP Permit.

Also included at the end of the Statement of Basis is a table, listing the design documents and drawings submitted by the permittees for incorporation into the WTP Permit.

1.0 HANFORD FACILITY RESOURCE CONSERVATION AND RECOVERY ACT PERMIT (SITE-WIDE PERMIT)

Ecology issued the Site-wide Permit in 1994. The Site-wide Permit provides standard and general facility conditions, as well as unit-specific conditions for the operation, closure, and post-closure care of mixed and dangerous waste Treatment, Storage, and Disposal (TSD) units at Hanford.

Approximately 40 TSD units are operating or closing under Resource Conservation and Recovery Act final status standards.

Conditions of the Site-wide Permit are presented in six parts:

- Part I Standard Conditions.
- Part II General Facility Conditions.
- Part III Unit-Specific Conditions for Final Status Operating Units.
- Part IV Corrective Action for Past Practice Units.
- Part V Unit-Specific Conditions for Units Undergoing Closure.
- Part VI Unit-Specific Conditions for Units in Post-Closure.

The WTP TSD Unit was added to Part III of the Site-wide Permit on September 25, 2002. The WTP Permit portion was effective on October 25, 2002. The WTP TSD Unit is currently being constructed under final permit status standards.

The Washington State Dangerous Waste Regulations in WAC 173-303-830 describe the types of changes or modifications that may be made to a Dangerous Waste Permit issued by Ecology.

The WTP Permit is modified as needed, typically one or more times a year, to incorporate Class 1, ¹1, 2, and 3 modifications; Agency-Initiated modifications; and minor changes in grammar, consistency, and presentation.

2.0 THE WTP PERMITTING PROCESS

The Permittees and Ecology are using a phased (or stepped) approach to permit the WTP TSD Unit. The first phase was completed on September 25, 2002, with issuance of a final Dangerous Waste Permit allowing construction of the LAW, PT, HLW, LAB, and BOF facilities to start.

This second phase of permitting is included in the compliance schedule, and requires the Permittees to submit design and other information for Ecology approval before regulated portions of the WTP TSD Unit are constructed.

A WTP Interim Compliance Schedule for the United States Department of Energy provides Ecology additional detailed information addressing the submittal of design documents necessary to support construction of the rest of the WTP TSD Unit, and its eventual operation.

The third phase of permitting is implementation of the last portion of the compliance schedule. This requires updating portions of the Dangerous Waste Permit Application and then modifying the WTP Permit prior to facility start-up operations. These portions (for example, Contingency Plan, Closure Plan, and Training Plan) of the WTP Permit are operational in nature and cannot be completed before the design is nearly complete.

When the three phases of permitting are completed, the WTP TSD Unit will comply with all the applicable requirements of WAC 173-303. Then, after receiving written permission from Ecology, the Permittees can begin treatment and storage of dangerous and mixed waste at the WTP.

Originally, the design submittals (second permitting phase) were structured to allow the Permittees to provide design information in roughly the same order as the WTP facilities are constructed.

The design packages start at the base level of the facilities (below-grade levels) and are submitted for regulated areas of each level before construction begins. This process was adjusted for some design packages. When the facility process systems are installed on more than one level, the design packages will address the associated components for each level. This prevents confusion caused by one process system description being segmented into multiple design packages.

The WTP Permit organizes design packages into three general groups by the type of regulated equipment:

1. Primary containment (i.e., tanks, miscellaneous units [evaporators and melters], and containment buildings).
2. Secondary containment.
3. Other associated regulated equipment (i.e., ancillary equipment, equipment associated with miscellaneous units, and instrumentation).

Using tank systems as an example, secondary containment packages include details of the design of secondary containment that must be in place in regulated areas when the floors and walls are built for that level of each facility (for example, the floor slope, and sump locations).

The installation of tanks and other large equipment usually follows construction of the floors and walls. Therefore, a tank package on that level will be included in the WTP Permit before installation. The tank package would contain, for example, structural details for those tanks or miscellaneous units showing nozzle locations, unit volumes, and tank shell thickness.

The last equipment usually installed on a level for a tank system is the ancillary equipment (for example, piping, pumps, process instrumentation, and electrical equipment). Therefore, the ancillary equipment package provides details for the equipment on that level that will be included in the WTP Permit before installation. Information in the package would include, for example, materials of construction, and pump types and their operating limits.

Because each WTP facility consists of multiple levels, many design packages are required. Of the estimated 180 design packages needed for WTP, approximately 40 remain to be incorporated in the WTP Permit.

The WTP Permit allows Permittees to reference previously submitted design information, therefore some design packages may consist mostly of references to information already provided.

The Effluent Management Facility (EMF) is an additional facility that is being incorporated into the WTP Operating Unit Group 10. Therefore, it will be permitted in the same phased approach as the rest of the WTP TSD Units and will have an associated Interim Compliance Schedule specific to the EMF. This draft modification is limited to the design and construction of the secondary containment of the EMF.

3.0 PROCEDURES FOR REACHING A FINAL DECISION ON THE DRAFT WTP PERMIT MODIFICATION

The Washington State Hazardous Waste Management Act (Chapter 70.105, Revised Code of Washington) and the rules declared in WAC Chapter 173-303 regulate the management of dangerous waste in Washington State. WAC 173-303-800 requires facilities that treat, store, and/or dispose of dangerous waste to obtain a permit for these activities.

Regulatory requirements for public notice and involvement on permit modifications are described in WAC 173-303-840(3) and (4). On November 28, 2016 the permittees submitted a Class 3 permit modification request to Ecology for the Secondary Containment of the EMF, which included updated chapters, appendices and design documents. The Permittees held a public comment period from November 28, 2016 through January 27, 2017. The Permittees also held a public meeting on January 9, 2017 at the Richland Public Library.

After review of the USDOE Class 3 permit modification, Ecology issued a completeness review letter on February 3, 2017 in accordance with WAC 173-303-830(4)(c)(vi) and WAC 173-303-840(1)(b) identifying the issues that were incomplete and the technical deficiencies. Additionally, Ecology issued letter on March 31, 2017 in accordance with WAC 173-303-840(1)(b). After working with the Permittees to resolve the items that were incomplete and the technical deficiencies, Ecology proceeded with drafting the permit to support a second public comment period.

Public comments from the Permittees' comment period are addressed by Ecology in a response to comments document. This response to comments document accompanies the draft permit modification. The response to comments document associated with this USDOE 60-day public comment period is available online at <http://ecy.wa.gov/programs/nwp/commentperiods.htm>.

As required by WAC 173-303-840(3)(d), draft modifications to the WTP Permit will have at least a 45-day public comment period. The public comment period for this proposed permit modification begins on May 22, 2017, and ends on July 7, 2017.

Comments must be post-marked, received by e-mail, or hand-delivered no later than close of business (5:00 p.m. PST) July 7, 2017. Direct all written comments to:

Mandy Jones
Washington State Department of Ecology
3100 Port of Benton Blvd.
Richland, Washington 99354

Electronic comment link: <http://wt.ecology.commentinput.com/?id=56Thj>

In accordance with WAC 173-303-840(10)(c), when a permit is modified, only the conditions subject to modification are open for comment. All other aspects of the existing Permit remain in effect for the duration of the modification.

Ecology will consider and respond to all written comments on this permit modification submitted by the deadline. Ecology will then make a final permit decision, which will become effective 30 days after Ecology provides notice of the decision to the Permittees and to all who commented. If the final decision includes substantial changes to the WTP Permit because of public comment, we will initiate a new public comment period.

A public hearing is not scheduled, but if there is enough interest, Ecology will consider holding one. To request a hearing or for more information, contact:

Joanna Morse
Washington State Department of Ecology
(509) 372-7880
E-mail address: hanford@ecy.wa.gov

After completion of the 45-day public comment period, Ecology will provide a response to comments document and a notification of the final permit decision to the Permittees and all others who commented. The final permit decision may be appealed within 30 days after issuance of that decision.

Copies of the WTP Permit, including the proposed permit modification, are available for review at the NWP Resource Center, USDOE Administrative Record, and Hanford Public Information Repositories. For additional information call (509) 372-7950 or email hanford@ecy.wa.gov.

Administrative Record

Richland

Washington State Department of Ecology
Nuclear Waste Program Resource Center
3100 Port of Benton Boulevard
Richland, Washington 99354
Contact: Teresa Booth (509) 372-7950

United States Department of Energy
Administrative Record
2440 Stevens Drive
Richland, Washington 99354
Contact: Heather Childers (509) 376-2530

Hanford Public Information Repositories

Richland

United States Department of Energy
Reading Room
2770 Crimson Way, Room 101L
Richland, Washington 99354
Contact: Janice Parthree (509) 375-3308

Portland

Portland State University
Branford Price Millar Library
1875 Southwest Park Avenue
Portland, Oregon 97207
Contact: Claudia Weston (503) 725-4542

Seattle

University of Washington
Suzzallo Library
PO Box 352900
Seattle, Washington 98195
Contact: Hilary Reinert (206) 543-5597

Spokane

Gonzaga University
Foley Center
502 East Boone Avenue
Spokane, Washington 99258
Contact: John Spencer (509) 313-6110

This Statement of Basis, Public Notice and information for the proposed permit modification is also available online at <http://www.ecy.wa.gov/programs/nwp/commentperiods.htm>. If special accommodations are needed for public comment, contact Ecology, at (509) 372-7950 or hanford@ecy.wa.gov.

4.0 PROPOSED MODIFICATIONS TO THE WTP PERMIT

This proposed permit modification contains the following engineering, design, and permitting detail. New or revised documents submitted with the modification are listed below. See Table 1 at the end of this document for the entire list of documents submitted by the Permittees to support this permit modification.

This proposed permit modification addresses the design and construction of the secondary containment systems that have been designed to hold the permitted tanks, vessels, miscellaneous units, and ancillary equipment that will be housed in the EMF. There are five permitted secondary containment systems in the EMF located at the (-) 39' and 0' elevations. The secondary containment systems are provided with liners that are sloped to direct liquids to secondary sumps. All secondary containment systems meet WAC 173-303-640(4) waste removal criteria. The secondary containment systems are capable of detecting and collecting a release of liquid and include nine permitted secondary containment sumps. All sumps have leak detection instrumentation with the ability to detect a release of liquid in the secondary containment system. The secondary containment systems satisfy WAC 173-303-640(4) leak detection criteria, and all secondary containment systems are designed and will be operated to contain 100% capacity of the largest dangerous or mixed waste tank or vessel within its boundary. This modification is applicable to the following buildings: the Process (Bldg. 25), Low Point Drain (Bldg. 25A) and Utility (Bldg. 26) buildings at the EMF.

This proposed permit modification consists of:

- New Interim Compliance Schedule Appendix 1.4 for EMF
- Revised Part A
- Revised Permit Conditions
- Revised Permit Chapters
- New Permit Chapters (Chapter 2 and Chapter 4G)
- Revised Appendices and new Appendix 13 which include:
 - Process Flow Diagrams
 - Piping and Instrument Diagrams
 - General Arrangement Drawings
 - Civil, Structural and Architectural Criteria and Typical Details
 - Engineering Specifications
 - Material Selection Specifications
 - Independent, Qualified, Registered, Professional Engineer (IQRPE) report
 - Instrument Control Logic
 - Operating Documents

4.1 Incorporation of Class 1 and Class ¹1 Permit Modifications (PCNs) and Permit Equivalency Notices (PENs)

Previously approved Class 1 and Class ¹1 PCNs and PENs are incorporated through the Quarterly Modifications. There will be no PCNs or PENs incorporated through this proposed modification.

4.2 Supplemental Design Information

Table 1 lists the design information included in this proposed permit modification and the proposed location in the WTP Permit. At issuance of the final WTP Permit, Ecology will specify where each drawing or report resides in the WTP Permit.

Paper copies of the page changes to the WTP Permit that result from this modification will be placed in the Administrative Record.

The letter issuing the final WTP Permit decision to the Permittees and Hanford contractors will include the current WTP Permit with the modifications on a DVD.

4.3 Identifying Changes in this Proposed Permit Modification

As the WTP TSD Unit is constructed, Ecology will modify the WTP Permit for many reasons, including to clarify text, add new conditions, delete existing conditions, correct errors, or add information. To communicate the changes, proposed permit modifications will include page changes showing all significant proposed changes to the WTP Permit. The text to be deleted will be struck-out with a single line, and the new text will be redlined. Only the text being changed in the current modification will be indicated by redlines and strikeouts.

Newly added documents and drawings are provided for review in this proposed permit modification. New document and drawing numbers and titles are shown in redline/strikeout text in the affected appendix drawing lists.

When a WTP Permit modification is issued, “clean” pages incorporating permit modifications will be issued to the Permittees and placed in the Administrative Record. All redlines and strikeouts will be removed. Documents and drawings listed in the appendices will not be redlined and will be incorporated by reference only.

Ecology publication number 07-05-006, *Responsiveness Summary* (September 27, 2007), explains the reason for replacing permit version documents with source documents to which the WTP is constructed. Source documents are in a state of constant revision as design details are finalized and additional information is added to provide clarity and to correct typographical errors.

The Permittees use Document Change Notices (DCNs) to track changes not yet incorporated into source documents. In some cases, DCNs are issued at the time of Ecology’s review. These are not provided for public comment, but will appear in the next revision of the WTP Permit for review. Source documents have been replacing permit version documents since September 2007.

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**Table 1 – Design Information Submitted by Permittees
For Incorporation into the WTP Permit**

Table of Contents

Document Title	Document Number	Revision	Permit Condition	Included	Remarks
Permit Chapters					
Chapter 1, Part A	N/A	3	173-303-806(4)(a) 173-303-806(4)(c) 173-303-806(4)(a)(i)	Y	Update to incorporate addition of EMF to the WTP
Chapter 2, Topographic Map	N/A	N/A	173-303-806(4)(a)(xviii)	Y	Update to incorporate addition of EMF to the WTP
Appendix 3A, Waste Analysis Plan	N/A	N/A	173-303-806(4)(a)(iii) 173-303-300(5)	Y	Update to incorporate addition of EMF to the WTP
Appendix 3B, Quality Assurance Project Plan	N/A	N/A	173-303-806 173-303-335	Y	Update to incorporate addition of EMF to the WTP
Chapter 4, Process Information	N/A	N/A	173-303-806(4)(a)	Y	Update to incorporate addition of EMF to the WTP
Chapter 4A, Figure and Drawings	N/A	N/A	173-303-806(4)(a)	Y	Update to incorporate addition of EMF to the WTP
Chapter 4E, LAW	N/A	N/A	173-303-806(4)(a)	Y	Update to incorporate addition of EMF to the WTP
Chapter 4G, EMF	N/A	N/A	173-303-806(4)(a)	Y	Update to incorporate addition of EMF to the WTP
Chapter 4H, Lab	N/A	N/A	173-303-806(4)(a)	Y	Update to incorporate addition of EMF to the WTP
Chapter 4I, BOF	N/A	N/A	173-303-806(4)(a)	Y	Update to incorporate addition of EMF to the WTP
Chapter 6, Procedures for Preventing Hazards	N/A	N/A	173-303-806(4)(a)(vii) 173-303-350	Y	Update to incorporate addition of EMF to the WTP
Chapter 6A, Inspection Schedule	N/A	N/A	173-303-806(4)(a)(v) 173-303-320	Y	Update to incorporate addition of EMF to the WTP
Chapter 7, Contingency Plan	N/A	N/A	173-303-806(4)(a)(viii)	Y	Update to incorporate addition of EMF to the WTP
Chapter 7A, Emergency Response	N/A	N/A	173-303-806(4)(a)	Y	Delete Chapter 7A, all content was incorporated into Chapter 7.
Chapter 8, Personnel	N/A	N/A	173-303-806(4)(a)(viii)	Y	Update to incorporate addition of EMF to the WTP

Document Title	Document Number	Revision	Permit Condition	Included	Remarks
Chapter 11, Closure Plan	N/A	N/A	173-303-806(4)(a)(xiii)	Y	Update to incorporate addition of EMF to the WTP
Appendix 7.5 - Civil, Structural and Architectural Criteria and Typical Details					
Permit Document – Secondary Containment Design	25490-WTP-PER-CSA-02-001	11	173-303-640(4)(c)	Y	To be incorporated into Appendix 7.5 (Replacing Rev. 10)
Appendix 7.7 – Engineering Specifications					
Engineering Specifications of field applied Special protective Coating	24590-WTP-3PS-AFPS-T0006	3	173-303-640-(3)(a) 173-303-806(4)(c)	Y	To be incorporated into Appendix 7.7 (Replacing Rev. 2).
Secondary Containment Areas					
Appendix 7.9 – Material Selection Documentation					
Permit Document – Material Selection for Building Secondary Containment/Leak Detection	24590-WTP-PER-M-02-001	4	173-303-806(4)(c)	Y	To be incorporated into Appendix 7.9 (Replacing Rev. 3).
Appendix 13.1 – Process Flow Diagrams					
Process Flow Diagram – Direct Feed Effluent Transfer (System DEP)	24590-BOF-M5-V17T-00011	0	173-303-640(3)(a) 173-303-806(4)(c)	Y	To be incorporated into Appendix 13.1
Process Flow Diagram – Direct Feed Effluent Evaporator System (System DEP)	24590-BOF-M5-V17T-00012	0	173-303-640(3)(a) 173-303-806(4)(c)	Y	To be incorporated into Appendix 13.1
Process Flow Diagram – Direct Feed Concentrate Transfer (System DEP and DVP)	24590-BOF-M5-V17T-00013	0	173-303-640(3)(a) 173-303-806(4)(c)	Y	To be incorporated into Appendix 13.1
Process Flow Diagram – Direct Feed Process Concentrate Transfer (System DEP)	24590-BOF-M5-V17T-00014	0	173-303-640(3)(a) 173-303-806(4)(c)	Y	To be incorporated into Appendix 13.1
Appendix 13.2 – Piping and Instrument Diagram (P&ID)					
P&ID – BOF/EMF Direct Feed LAW EMF – Process System Low Point Drain Vessel Pump - DEP-PMP-00001A/B	24590-BOF-M6-DEP-00001002	0	173-303-640(3)(a) 173-303-806(4)(c)	Y	To be incorporated into Appendix 13.2
P&ID – BOF/EMF Direct Feed LAW EMF – Process System – Process Area Sumps – DEP-SUMP-00002A/B	24590-BOF-M6-DEP-00009001	0	173-303-640(3)(a) 173-303-806(4)(c)	Y	To be incorporated into Appendix 13.2
P&ID – BOF/EMF Direct Feed LAW EMF – Process System – Process Vessel Area Sumps – DEP-SUMP-00004A/B	24590-BOF-M6-DEP-00009002	0	173-303-640(3)(a) 173-303-806(4)(c)	Y	To be incorporated into Appendix 13.2

Document Title	Document Number	Revision	Permit Condition	Included	Remarks
P&ID – BOF/EMF Direct Feed LAW EMF – Process System – Miscellaneous Sumps – DEP-SUMP- 00008	24590-BOF-M6-DEP-00009003	0	173-303-640(3)(a) 173-303-806(4)(c)	Y	To be incorporated into Appendix 13.2
P&ID – BOF/EMF Direct Feed LAW EMF – Process System – Process Area Sumps – DEP-SUMP-00003A/B	24590-BOF-M6-DEP-00009004	0	173-303-640(3)(a) 173-303-806(4)(c)	Y	To be incorporated into Appendix 13.2
P&ID – BOF/EMF Direct Feed LAW EMF – Process System – Process Area Sumps – DEP-SUMP-00005A/B	24590-BOF-M6-DEP-00009005	0	173-303-640(3)(a) 173-303-806(4)(c)	Y	To be incorporated into Appendix 13.2
P&ID – BOF/EMF Direct Feed LAW EMF – Process System – Effluent System Leak Detection DEP-LOB- 00001 Thru 00006	24590-BOF-M6-DEP-00011001	0	173-303-640(3)(a) 173-303-806(4)(c)	Y	To be incorporated into Appendix 13.2
P&ID – BOF/EMF Direct Feed LAW EMF Vessel Vent Process System DVP-EXHR-00001A/B	24590-BOF-M6-DVP-00001001	0	173-303-640(3)(a) 173-303-806(4)(c)	Y	To be incorporate into Appendix 13.2
BOF/EMF Buildings SDJ Plant Room V&ID Exhaust Stack Monitoring System	24590-BOF-M8-SDJ-00001	A	173-303-640(3)(a) 173-303-806(4)(c)	Y	To be incorporate into Appendix 13.2
Document Change Notices (DCNs)					
Document Change Notice – Miscellaneous Changes to Low Point Drain Vessel and P&ID	24590-BOF-M6N-DEP-00001 (issued against 24590-BOF-M6- DEP-00001002)	0		Y	To be incorporated into Appendix 13.2
Document Change Notice – Miscellaneous Title Changes and Removal of Auto/Manual on DEP-YC- 8650	24590-BOF-M6N-DEP-00007 (issued against 24590-BOF-M6- DEP-00009001/9003/9005)	0		Y	To be incorporated into Appendix 13.2
Document Change Notice – Addition, Removal, and Revision of Off sheet Connection for Leak Detection	24590-BOF-M6N-J21T-00002 (Issued against 24590-BOF-M6- DEP-00011001)	0		Y	To be incorporated into Appendix 13.2
Appendix 13.4 – General Drawings					
General Arrangement Plan – Balance of Facilities LAW Effluent Process BLDG. and LAW Effluent Drain Tank Bldg. General Arrangement Plan at Elevation 0FT – 0 IN	24590-BOF-P1-25-00001	0	173-303-640(3)(a) 173-303-806(4)(c)	Y	To be incorporated into 13.4

Document Title	Document Number	Revision	Permit Condition	Included	Remarks
Balance of Facilities LAW Effluent Utility Bldg. & LAW Effluent Electrical Bldg. General Arrangement Plan at Elev. 0'-0"	24590-BOF-P1-26-00001	0	173-303-640(3)(a) 173-303-806(4)(c)	Y	To be incorporated into 13.4
Balance of Facilities LAW Effluent Utility Bldg. & LAW Effluent Electrical Bldg. General Arrangement Sections A& B	24590-BOF-P1-26-00002	0	173-303-640(3)(a) 173-303-806(4)(c)	Y	To be incorporated into 13.4
Appendix 13.11 – Independent, Qualified, Registered Professional Engineer (IQRPE) Reports					
IQRPE Independent Assessment Report	24590-CM-HC4-HXYG-00240-02-0017	0	173-303-640(3)(a) 173-303-806(4)(c)	Y	To be incorporated into 13.11
Appendix 13.13 – Instrument Control Logic and Narrative Description					
Permit Document – System Logic Description for the Direct Feed LAW Effluent Management Facility Process System (DEP)	24590-BOF-PER-J-16-001	0	173-303-640(4)(c) 173-303-806(4)(c)	Y	To be incorporated into Appendix 13.13
Appendix 13.18 – Operating Documents					
Permit Document – Leak Detection Capability for EMF Facility	24590-BOF-PER-M-16-001	0	173-303-806(4)(c)	Y	To be incorporated into Appendix 13.18
Permit Document – Waste Removal Capacity for the Direct Feed LAW Effluent Management Facility (EMF)	24590-BOF-PER-M-16-002	0	173-303-806(4)(c)	Y	To be incorporated into Appendix 13.18
Permit Document – Dangerous Waste Permit (DWP) Liner height in the Effluent Management Facility (EMF)	24590-BOF-PER-M-16-003	0	173-303-806(4)(c)	Y	To be incorporated into Appendix 13.18
Administrative Record					
Permit Document – Prevention of Hydrogen Accumulation in WTP Tank Systems and Miscellaneous Treatment Unit Systems	24590-BOF-PER-PR-03-001	2		N	To be incorporated into the Administrative Record (Replacing Rev. 1)
Effluent Management Facility Process Flow Diagrams Process Stream Tables (System DEP and DVP)	24590-BOF-M3-V17T-00001002	0		N	To be incorporated into the Administrative Record
Overview of the Effluent Management Facility Process Design (Mass Balance)	CCN 293458 (Superseding 290073 and 29401)	NA		N	To be incorporated into the Administrative Record

Document Title	Document Number	Revision	Permit Condition	Included	Remarks
Effluent Management Facility process Flow Diagrams Process Stream Tables (System DEP and DVP)	24590-BOF-M3-V17T-00001001	0		N	To be incorporated into the Administrative Record