



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

Richland Field Office

3100 Port of Benton Blvd., Richland, WA 99354 • 509-372-7950

May 24, 2023

23-NWP-059

Brian T. Vance, Manager
Office of River Protection
United States Department of Energy
PO Box 450, MSIN: H6-60
Richland, Washington 99352

Wesley H. Bryan, President
Washington River Protection Solutions
PO Box 850, MSIN: H3-21
Richland, Washington 99352

Re: Acceptance of the Certified Supplemental Information to the *Hanford Facility Dangerous Waste Permit for the Treatment, Storage, and Disposal of Dangerous Waste, Revision 9*, WA7890008967, (Site-wide Permit, Rev 9) Renewal Application for the Liquid Effluent Retention Facility and 200 Area Effluent Treatment Facility, Operating Unit Group 3 (OUG 3)

Reference: See page 2

Dear Brian T. Vance and Wesley H. Bryan:

The Department of Ecology (Ecology) reviewed the Certified Supplemental Information provided by United States Department of Energy and Washington River Protection Solutions (Permittees) for the Liquid Effluent Retention Facility and 200 Area Effluent Treatment Facility (Reference).

Ecology accepts the Supplemental Information in support of the Site-wide Permit, Rev 9 renewal application and will incorporate the content with additional changes in the draft Site-wide Permit, Rev 9. Ecology will notify the Permittees of the changes and incorporate them into the final draft files made available for public review.

Ecology worked with the Permittees on the content of Addendum G, "Personnel Training," for the Liquid Effluent Retention Facility and 200 Area Effluent Treatment Facility permit. Ecology made additional changes to Addendum G because agreed to changes were not incorporated. Enclosed is a draft courtesy copy of Addendum G, "Personnel Training" with Ecology's changes.

In accordance with Washington Administrative Code 173-303-806(7), the Permittees will comply with the *Hanford Facility Resource Conservation and Recovery Act Permit, Dangerous Waste Portion, Revision 8C, for the Treatment, Storage, and Disposal of Dangerous Waste* until the effective date of the Site-wide Permit, Rev 9.

Brian T. Vance and Wesley H. Bryan
May 24, 2023
Page 2 of 2

23-NWP-059

If there are any questions, please contact Jeff Marusich, Engineer, at jeff.marusich@ecy.wa.gov or (509) 303-5072 or Michelle Jones, Permit Coordinator, at michelle.jones@ecy.wa.gov or (509) 282-2677.

Sincerely,



Digitally signed by
Schleif, Stephanie (ECY)

Stephanie Schleif
Deputy Program Manager
Nuclear Waste Program

jm/mo
Enclosure

Reference: Letter 23-ECD-000347, dated January 30, 2023, "Submittal of Supplemental Information to the Hanford Facility Resource Conservation and Recovery Act Permit Renewal (Revision 9) Application for the Liquid Effluent Retention Facility and 200 Area Effluent Treatment Facility, 242-A Evaporator, Double-Shell Tank System, and Single-Shell Tank System, Addenda G, Personnel Training"

cc electronic w/enc:

David Einan, EPA	Jennifer Cantu, Ecology
Duane Carter, USDOE	Annette Carlson, Ecology
Rana Evans, USDOE	Ambika Chakravartty, Ecology
Tony McKarns, USDOE	Suzanne Dahl, Ecology
Paul Pak, USDOE	Amie Green, Ecology
Brian Stickney, USDOE	Edward Holbrook, Ecology
Glyn Trenchard, USDOE	Michelle Jones, Ecology
Bryan Trimberger, USDOE	Jeff Marusich, Ecology
Eric Van Mason, HLMI	Jared Mathey, Ecology
Jon Perry, HMIS	John Price, Ecology
Darci Teel, HMIS	Beth Rochette, Ecology
Roger Szelmezcza, WRPS	Stephanie Schleif, Ecology
Tom Beam, WRPS	Stacie Sexton, Ecology
Mason Murphy, CTUIR	Environmental Portal
Jack Bell, NPT	Hanford Administrative Record,
Alyssa Buck, Wanapum	Hanford Site-wide Permit
Laurene Contreras, YN	Hanford Facility Operating Record
ERWM Staff, YN	HAB Correspondence Control
Susan Coleman, HAB	HLMI Correspondence Control
David Reeploeg, Hanford Communities	HMIS Correspondence Control
Max Woods, ODOE	USDOE Correspondence Control
	WRPS Correspondence Control

1
2
3

**ADDENDUM G
PERSONNEL TRAINING**

1
2
3
4
5
6

This page intentionally left blank.

**ADDENDUM G
PERSONNEL TRAINING**

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

TABLE OF CONTENTS

G. PERSONNEL TRAINING 1
G.1 Introductory and Continuing Training Program..... 1
G.1.1 Introductory Training 1
G.1.2 Continuing Training 2
G.2 Description of Training Program 2
G.2.1 Qualification of Personnel..... 3
G.2.2 Review of the Training Program 3
G.3 Description of Training Plan 4

TABLES

Table G.1. Personnel Training 6
Table G.2. LERF/ETF Specific Training..... 8

1
2
3
4
5

This page intentionally left blank.

1 **G. PERSONNEL TRAINING**

2 This Addendum discusses personnel training requirements based on *Washington Administrative Code* (WAC)
3 173-303, “Dangerous Waste Regulations” and the Hanford Facility Dangerous Waste Permit,
4 WA7890008967 (Permit). This Addendum provides the information necessary to comply with training
5 requirements associated with permitted dangerous waste management activities at the Liquid Effluent
6 Retention Facility (LERF) and 200 Area Effluent Treatment Facility (ETF).

7 **G.1 Introductory and Continuing Training Program**

8 The Dangerous Waste Training Program consists of introductory and continuing training programs that
9 are designed to prepare personnel to operate and maintain the LERF and 200 Area ETF in a safe,
10 effective, and environmentally sound manner. In addition to preparing personnel to manage and maintain
11 the LERF and 200 Area ETF under normal conditions, the training programs ensure that personnel are
12 prepared to respond in a prompt and effective manner should abnormal or emergency conditions occur.
13 Emergency response training is consistent with the description of actions contained in Addendum J,
14 “Contingency Plan.”

15 Tables G.1 and G.2 identify the type, amount, and description of both introductory and continuing
16 training relevant to positions and job duties for LERF and 200 Area ETF personnel required in the Permit.
17 TFC-PLN-157, “LERF and 200 Area ETF Dangerous Waste Training Plan,” identifies each job
18 title/position and requisite skills, education requirements, and other qualifications for LERF and 200 Area
19 ETF personnel. [WAC 173-303-330(2)]

20 The introductory and continuing training programs contain the following objectives:

- 21 • Train personnel to perform their duties in a way that ensures compliance with the Permit.
- 22 • Ensure personnel can respond effectively to emergencies.
- 23 • Train personnel dangerous waste management activities (including implementation of the
24 contingency plan) relevant to the job titles/positions in which they are employed.
25

26 The introductory and continuing training programs are provided through the general Hanford Facility
27 training and unit-group specific training as outlined below. [WAC 173-303-330]

28 **G.1.1 Introductory Training**

29 Introductory training includes General Hanford Facility training and unit-group specific training for
30 LERF and 200 Area ETF. General Hanford Facility training and unit-group specific training are
31 described below. Unit-group specific training is provided to LERF and 200 Area ETF personnel which
32 allows them to work unescorted, and in some cases, is required for escorted access. Personnel will be
33 supervised until training identified in Tables G.1 and G.2 are complete and cannot perform a task for
34 which they are not trained, except to gain required experience while under instruction of a trained
35 employee, or a professional trainer as described in Section G.2.1.

36 General Hanford Facility training: Hanford Facility personnel will receive Hanford General Employee
37 Training (HGET), described in Permit Attachment 5, “Hanford Facility Personnel Training Program.”
38 This training provides an orientation on dangerous waste management activities conducted at the Hanford
39 Facility and includes the following.

- 40 • Description of emergency signals and appropriate personnel response.
- 41 • Identification of contacts for information regarding dangerous waste management activities.
- 42 • Introduction to waste minimization concepts.
- 43 • Identification of contact(s) for emergencies involving dangerous waste.
- 44 • Familiarization with the applicable portions of Permit Attachment 4, “Hanford Emergency
45 Management Plan.”
46

1 Contingency Plan training: LERF and 200 Area ETF personnel receive training on applicable portions of
2 Permit Attachment 4, Hanford Emergency Management Plan in HGET. To ensure effective emergency
3 response, personnel also receive training on the content of the actions described in Addendum J,
4 “Contingency Plan” as well training is described in Table G.1.

5 Waste Management & Transportation training: Waste Management and Transportation training is
6 provided to personnel if their job duties include acceptance, designation, handling, packaging, and/or
7 shipping of dangerous waste. Waste Management and Transportation training is described in Table G.1.
8 Personnel who perform onsite or offsite shipping duties will be trained; if onsite or offsite shipper can
9 perform their duties without being present at the facility, the assigned shipper does not require facility-
10 specific training.

11 Emergency Coordinator training: LERF and 200 Area ETF pPersonnel facilitating Emergency
12 Coordinator duties, WAC 173-303-360, “Emergencies,” such as the Building Warden (BW) within the
13 Hanford Incident Command System (ICS), receive training on implementing Addendum J, “Contingency
14 Plan,” and BW responsibilities, and BW responsibilities within the ICS. ~~Emergency Coordinator training
15 is described in Table G.1.~~

16 Environmental Professional training: Environmental Field Representatives Personnel responsible for
17 ~~environmental compliance~~ receive unit-group specific training on applicable environmental regulations,
18 the Permit, regulator inspections and notifications, preparation of environmental records, and pollution
19 prevention practices. ~~Environmental Professional training is described in Table G.1.~~

20 Task Specific /Facility Operations training: ~~Facility O~~Dangerous waste management task specific and
21 operations training needs are is determined on a unit-by-unit basis and considers the type of activities
22 performed at the LERF and 200 Area ETF. ~~Facility Operations training is identified in Table G.2 of this~~
23 ~~Addendum.~~ ~~Facility O~~Task specific and operations training includes operating LERF and 200 Area ETF
24 treatment and support systems, control room operations, waste loading/unloading, emergency response
25 training on emergency systems, and operations management responsibilities.

26 Non-LERF and 200 Area ETF Personnel or Visitors: As appropriate for the locations and activities, the
27 Permittees will ensure training to non-LERF and 200 Area ETF personnel or visitors is undertaken. Non-
28 LERF and 200 Area ETF personnel or visitors include individuals not permanently assigned to the LERF
29 and 200 Area ETF facility and who do not have dangerous waste management responsibilities or
30 supervision of such activities. These individuals include but are not limited to administrative personnel,
31 regulatory oversight, transient sampling personnel, temporary personnel and other personnel not
32 permanently assigned to the LERF and 200 Area ETF facility. ~~Training for non LERF and 200 Area ETF
33 personnel and visitors is described in Table G.1.~~

34 For training of Groundwater Samplers including response to groundwater contamination incidents, refer
35 to Attachment 8, Inspection and Training Plan for Groundwater Monitoring Wells~~Part IV, Corrective~~
36 ~~Action,~~ of this Permit; ~~Part IV~~Attachment 8 is not addressed further in this Addendum.

37 **G.1.2 Continuing Training**

38 Refresher training occurs on many frequencies (i.e., annual, biennial, and triennial) for operations
39 training. When justified, some training will not contain a refresher course and will be identified as a one-
40 time only training course. Frequency of training is identified in Tables G.1 and G.2 of this Addendum.

41 **G.2 Description of Training Program**

42 The Dangerous Waste Training Program is overseen by the Dangerous Waste Training Program Director,
43 who is knowledgeable in dangerous waste management procedures and is otherwise qualified to design a
44 Dangerous Waste Training Program by a combination of education and relevant experience. The job
45 description, duties, requisite skills, minimum education, and other qualifications of LERF and 200 Area
46 ETF personnel are described in the LERF and 200 Area ETF Dangerous Waste Training Plan (DWTP).

1 Training elements of WAC 173-303-330(1)(e), *Personnel Training*,” applicable to the LERF and 200
2 Area ETF operations include the following.

- 3 • Procedures for using, inspecting, repairing, and replacing emergency and monitoring equipment.
- 4 • Communications and alarm systems.
- 5 • Responding to fires or explosions.
- 6 • Shutdown of operations.
- 7 • Key parameters for automatic waste feed cut-off systems.

8 Proper design of the Training Program ensures LERF and 200 Area ETF personnel will be trained to
9 perform their duties compliant with the Permit. Actual job tasks, referred to as duties, include the above-
10 referenced elements, and are used to determine training requirements. As such, LERF and 200 Area ETF
11 facility personnel receive training appropriate to the duties they perform. Tables G.1 and G.2 contain
12 specific information regarding the training requirements for LERF and 200 Area ETF personnel. This
13 enables employees to know how to respond to emergencies, handle mixed/dangerous waste properly, and
14 perform their work/duties in a safe manner.

15 **G.2.1 Qualification of Personnel**

16 Qualification of facility personnel relies on a combination of required education and experience, training
17 courses (classroom and computer based), required reading, and On-The-Job Training (OJT). Training is
18 determined and assigned based on job duties described in this Addendum. Records for completion of
19 training (e.g., course roster, qualification card, OJT card, qualification checklist, required reading, etc.)
20 are retained in the Operating Record, LERF and 200 Area ETF portion, in accordance with Permit
21 Attachment 6, “Recordkeeping and Reports.”

22 Various evaluation techniques are used to measure a trainee's satisfactory completion of training.
23 Examples of evaluation techniques are performance in written and oral exams and careful observation of
24 on-the-job performance. Periodically, employees critique formal training sessions using a training
25 evaluation form. The evaluator determines whether the trainee has mastered the skills at the competency
26 level necessary to perform the tasks described in the job description.

27 OJT is hands-on training for the job duty provided under supervision of an evaluator (e.g. trained
28 employee or professional trainer) who serves as the course instructor. OJT is assigned a course number
29 with course completion being proof of training.

30 Training to meet the Dangerous Waste Training Program requirements is required to be completed within
31 six months of assignment to dangerous waste duties at the facility LERF and 200 Area ETF, or to a new
32 job/title position at the LERF and 200 Area ETF, whichever is later. While training courses (classroom
33 and computer based) can be completed within six months, OJT may take longer than six months to
34 complete due to facility inactivity, complexity of requirements, complexity of tasks being performed, and
35 pursuant to collective bargaining agreements. In no case would untrained personnel be allowed to
36 complete job duties described in this Addendum unless overseen by trained personnel.

37 **G.2.2 Review of the Training Program**

38 All employees are required to complete HGET on an annual basis. This training is subject to biennial
39 evaluation by HGET Approval Authorities who review, and revise HGET lessons when deemed
40 necessary.

41 The Permittee’s Dangerous Waste Training Program is reviewed through an iterative process of
42 continuous improvement. The following information is evaluated as part of this review.

- 43 • eChanges to the Dangerous Waste regulations
- 44 • eChanges to the RCRA Permit
- 45 • eChanges to procedures

- 1 • ~~I~~ssues and opportunities for improvement identified by internal assessments
- 2 • ~~I~~ssues or areas of noncompliance identified ~~during as a result of~~ events or regulatory inspections
- 3 • ~~D~~eficiencies in personnel performance of job tasks
- 4 • ~~F~~eedback on training content

5 Changes, problems, or opportunities for improvement may be addressed by revising course content,
6 retrain frequency or delivery method. Employees periodically critique formal training sessions using a
7 training evaluation form. Each dangerous waste training course undergoes a full review at least every
8 three years even if none of the conditions above indicate the need to revise the training program. The
9 course material for the training courses listed in this Addendum are regularly reviewed at a topical level.

10 The training matrices included in this Addendum indicate regularly scheduled (required) refresher
11 training frequencies of individual courses to ensure a regimented review of course material at a topical
12 level on a specified interval.

13 Included in the review of training is an annual review of training matrices identifying changes in:

- 14 • ~~e~~Course ID numbers
- 15 • ~~e~~Course titles
- 16 • ~~m~~Method of delivery

17 Changes to course ID numbers, course titles, or method of delivery ~~as a result of~~~~resulting during~~ the
18 annual review will be submitted as permit modification request in accordance with Permit Condition
19 ~~H.C.31~~, consistent with identifying changes in the DWTP, which are not a decrease in the type or amount
20 of training given to employees.

21 **G.3 Description of Training Plan**

22 Training Plan documentation is maintained outside of the Permit, therefore, changes made to the Training
23 Plan documentation are not subject to the Permit modification process. However, Training Plan
24 documentation is prepared to comply with WAC 173-303-330(2) requirements.

25 Documentation prepared to meet the requirements of this Training Plan consists of hard copy and/or
26 electronic media. Training Plan documentation consists of one or more documents and/or a training
27 database with all the components identified in the core document. Training Plan documentation is
28 maintained in the Operating Record, LERF and 200 Area ETF portion, as required by Permit Condition
29 **II.C Personnel Training**. A description of how training Plan Documentation meets the three items in
30 WAC 173-303-330(2) is as follows:

- 31 1. WAC 173-303-330(2)(a): The job title, job description, and name of the employee filling each job.
32 The job description must include requisite skills, education, other qualifications, and duties for each
33 position.

34 Description: The specific LERF and 200 Area ETF personnel job title/position is correlated to the
35 waste management duties. Waste management duties relating to WAC 173-303 are correlated to
36 training courses to verify that training is properly assigned.

37 Only names of LERF and 200 Area ETF personnel who carry out job duties relating to dangerous
38 waste management operations at the ~~LERF and 200 Area ETF facility~~ are maintained. A list of ~~LERF~~
39 ~~and 200 Area ETF~~ personnel assigned to the facility is available upon request.

40 Detailed information concerning job title, requisite skills, education, and other qualifications for
41 personnel is included in the DWTP and is available upon request.

- 42 2. WAC 173-303-330(2)(b): A written description of the type and amount of both introductory and
43 continuing training required for each position.

44 Description: In addition to the outline provided in Section G.1, Tables G.1 and G.2 identify the type,
45 amount, and description of both introductory and continuing training relevant to positions and job

1 duties for facility personnel required in the Permit. Certain positions may have some variability of
2 task assignment/responsibility. Personnel assigned specific waste management duties within a
3 position are only required to take the necessary training specific to that duty.

4 3. WAC 173-303-330(2)(c): Records documenting that facility personnel have received and completed
5 the training required by this section. The Department may require, on a case-by-case basis, that
6 training records include employee initials or signature to verify that training was received.

7 Description: The Permittees will maintain documentation for completion of training (e.g., course
8 roster, qualification card, OJT card, qualification checklist, required reading, etc.) in the Operating
9 Record, LERF and 200 Area ETF portion, in accordance with Permit Condition II.C. ~~45 and Permit~~
10 ~~Attachment 5.~~

11 Note that training records are maintained in accordance with the requirements of the *Privacy Act of*
12 *1974*. Training records for personnel are available for inspection purposes through 59 FR 17091,
13 which gives federal, state, and local government officers 'routine use' access to training records where
14 a regulatory program being implemented is applicable to a DOE or contractor program.

15

Table G.1. Personnel Training

Course Number	Course Title/Description	Frequency*	Waste Designator	Shipper On-site	Shipper Off-Site	Environmental Field Representative	Waste Acceptance Engineer or Scientist	Waste Compatibility	Building Warden / Building Emergency Director (BW/BED)	Fire Protection Engineer	Dangerous Waste Training Program Director	Unescorted Visitors and Other Nonresident Personnel who are not Facility Residents	Escorted Visitors and Other Nonresident Personnel who are not Facility Residents
GENERAL HANFORD FACILITY TRAINING													
000001 00	Hanford General Employee Training (HGET) (CBT) Standard alarms, chemical spills, security, hazards, signs, Escorts badge requirements, and overall safety. Refresher	Annual after initial	X	X	X	X	X	X	X	X	X	X	X
000019													
CONTINGENCY PLAN TRAINING													
358003	TOC Facility Orientation and FEHIC (CBT) Basic operations, safety, and security, waste minimization, emergency response, hazard communications.	Annual	X	X	X	X	X		X			X	
EMERGENCY COORDINATOR TRAINING													
70E001 00	ETF Emergency Response Organization Initial Training (Classroom) Hierarchy of the emergency management documents, development of emergency action levels, operational emergencies, protective actions, responsibilities of the Emergency Coordinator within RCRA Contingency Plan. Refresher	Annual after initial							X				
70E002													
ENVIRONMENTAL PROFESSIONAL TRAINING													
352060 00	Environmental Professional Qualification Card Knowledge of environmental regulations, permits, regulator inspections and notifications, recordkeeping, and pollution prevention practices. Requalification	Biennial after initial				X							
352061													
TASK SPECIFIC/OPERATIONS TRAINING													
350560 00	TOC Waste Handling, Segregation, and Packaging (Classroom) Waste management, waste handling, waste generation, satellite accumulation, and waste clean-up. Refresher	Annual after initial	X	X	X	X	X						
350561													

Addendum G.6

Table G.1. Personnel Training

Addendum G.7

Course Number	Course Title/Description	Frequency*	Waste Designator	Shipper On-site	Shipper Off-Site	Environmental Field Representative	Waste Acceptance Engineer or Scientist	Waste Compatibility	Building Warden / Building Emergency Director - (BW/BED)	Fire Protection Engineer	Dangerous Waste Training Program Director	Unescorted Visitors and Other Nonresident Personnel who are not Facility Residents	Escorted Visitors and Other Nonresident Personnel who are not Facility Residents
035010	Waste Designation (Classroom) Waste designation and Land Disposal Restrictions according to WAC 173-303.	One-time only	X										
035012	Waste Designation Qualification (Qual Card) Waste designation and Land Disposal Restrictions according to WAC 173-303	Annual	X										
351032	Waste Designator (Qual Card) Waste designation requirements	One-time only	X										
035082	DWTP - Incoming TSD Unit Waste Acceptance (OJT) Knowledge of waste acceptance, TSD waste analysis plan, review and approval of waste acceptance to TSD unit.	One time only					X						
350883	Fire Protection Engineer (Qual. Card) Fire protection duties in ignitable/reactive waste inspections <u>Fire protection duties in ignitable/reactive waste inspections, inspecting and testing of fire systems, fire water distribution systems, and fire alarm systems.</u>	One-time only							X				
351024	On-Site Shipper (Qual Card) Completion of shipping papers to various units.	One-time only		X									
351033 or 351034	Off-Site Shipper (Qual Card) Waste shipment requirements. Refresher	Biennial after initial			X								
<u>020078</u>	<u>Advance Mixed Waste Shipper Certification (Classroom) Shipping techniques on hazardous waste labels, containers, packing, and manifesting.</u>	<u>Triennial after initial</u>			<u>X</u>								
BED = Building Emergency Director CBT = Computer Based Training NCO = Nuclear Chemical Operator Qual Card = Qualification Card, includes On-the-Job Training (OJT) (i.e. Performance Demonstration & Training Checklist)													

Table G.2. LERF/ETF Specific Training

Course Number	Course Title/Description	Frequency*	ETF Support Systems Operator	ETF Outside Operator	ETF Secondary Treatment Train Operator	ETF Control room Operator	ETF Main Treatment Train Operator	NCO - Waste Operations.	Stationary Operations Engineer	Shift Operations Manager ^a
GENERAL HANFORD FACILITY TRAINING										
000001 00	Hanford General Employee Training (HGET) (CBT) Standard alarms, chemical spills, security, hazards, signs, escorts, badge requirements, and overall safety.	Annual after initial	X	X	X	X	X	X	X	X
000019	Refresher									
CONTINGENCY PLAN TRAINING										
358003	TOC Facility Orientation and FEHIC (CBT) Basic Operations, Safety, and Security, Waste Minimization, Emergency Response, Hazard Communications.	Annual	X	X	X	X	X	X	X	X
<u>35E003</u>	<u>Tank Farms Emergency Response Organization for Support Personnel (CBT) Roles and Responsibilities of the Emergency Response Organization, Event Scene mitigation and set-up, Emergency Response Procedures, Conditions that require Hanford Incident Command System, Event discoverers and responsibilities</u>	<u>Annual</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
TASK SPECIFIC/OPERATIONS TRAINING										
350340 00 350342	TOC Base Operations Initial (OJT) Interplant Relationships, Operational Requirements, and Emergency Response. Qualification (Qual Card)	Biennial after initial	X					X		
705800 00 705801	ETF Stationary Operations Engineer Qualification (OJT, PD) Operation and inspection of emergency equipment. Qualification	Biennial after initial							X	
705100 00 705101	200 Area ETF Support Systems Operator Qualification (Qual Card) Operations of the ETF support systems to include MCS, chemical feed, vessel off-gas, sump tank, seal water, cooling water, fire protection, and verification. Qualification	Biennial after initial	X							

Appendix G.8

Table G.2. LERF/ETF Specific Training

Course Number	Course Title/Description	Frequency*	ETF Support Systems Operator	ETF Outside Operator	ETF Secondary Treatment Train Operator	ETF Control room Operator	ETF Main Treatment Train Operator	NCO - Waste Operations.	Stationary Operations Engineer	Shift Operations Manager ^a
705120 705120	200 Area ETF Outside Operator Qualification (Qual Card) Operations of ETF systems to include MCS, TEDF collection, disposal, and sampling systems, load-in station, retention facility, and SALDS site. Requalification	Biennial after initial		X						
705125 705125	200 Area ETF Main Treatment Train Operator Qualification (Qual Card) Operations of ETF systems to include surge tank, filtration, ultraviolet oxidation, pH adjustment, Peroxide decomposition system, degasification, reverse osmosis, polisher, effluent pH adjustment, and verification tank systems. Requalification	Biennial after initial					X			
705130 705130	200 Area ETF Secondary Treatment Train Operator Qualification (Qual Card) Operations of ETF systems to include secondary waste receiving tank system, evaporator, concentrate tank, thin film dryer, drum handling. Requalification	Biennial after initial			X					
705135 705135	200 Area ETF Control Room Operator Qualification (Qual Card) Operations of ETF systems to include monitoring and control systems and alarm response, thin film dryer, secondary waste receiving tank system, concentrate tank. Requalification	Biennial after initial				X				
350560 350560	TOC Waste Handling, Segregation, and Packaging (Classroom) Waste management, waste handling, waste generation, satellite accumulation, and waste clean-up. Refresher	Annual after initial	X	X	X	X	X	X		
705140 705140	LERF/ETF SOM 200 Area Initial Qualification (Qual Card) Knowledge of ETF systems and operations, environmental requirements, emergency response requirements. Requalification	Biennial after initial								X

Addendum G.9

Table G.2. LERF/ETF Specific Training

Course Number	Course Title/Description	Frequency*	ETF Support Systems Operator	ETF Outside Operator	ETF Secondary Treatment Train Operator	ETF Control room Operator	ETF Main Treatment Train Operator	NCO - Waste Operations.	Stationary Operations Engineer	Shift Operations Manager ^a
^a Shift Operations Manager (i.e. Shift Operation Manager, Shift Manager, or Operations Manager) BED = Building Emergency Director CBT = Computer Based Training NCO = Nuclear Chemical Operator Qual Card = Qualification Card, includes On-the-Job Training (OJT) (i.e. Performance Demonstration & Training Checklist)										

This page intentionally left blank.