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7. Abstract This report documents a DOE Order Applicability Assessment for the 300 Area Treated Effluent Disposal Facility (TEDF). The review was limited to the 52 Level I orders of interest to the Defense Nuclear Facility Safety Board. It placed each order into one of three levels of applicability as follows: (A) Facility Specific, (B) Policy Level, and (C) Not Applicable.		
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300 AREA TREATED EFFLUENT

DISPOSAL FACILITY (TEDF)

DEPARTMENT OF ENERGY (DOE)

ORDER COMPLIANCE

APPLICABILITY ASSESSMENT

TABLE OF CONTENTS

EXECUTIVE SUMMARY	Page 1 of 8
1.0 INTRODUCTION	Page 2 of 8
2.0 DESCRIPTION OF FACILITY	Page 2 of 8
3.0 METHOD OF REVIEW	Page 2 of 8
4.0 CONCLUSIONS	Page 3 of 8
TABLE 4.1	Page 4 of 8
TABLE 4.2	Page 6 of 8
TABLE 4.3	Page 7 of 8

EXECUTIVE SUMMARY

This report summarizes the results of an effort to determine applicability of Department of Energy Orders at the Hanford 300 Area Treated Effluent Disposal Facility (TEDF). This assessment placed each of the reviewed orders into one of three compliance categories:

- A Order applicable at a facility specific level (20 Identified)
- B Order applicable at a policy level (11 Identified)
- C Order not applicable (21 Identified)

The scope of the assessment from the DOE Order standpoint was the 52 Level I Orders of interest to the Defense Nuclear Facility Safety Board (DNFSB). Although the TEDF is a non-nuclear facility, this order basis was chosen as a Best Management Practice to be consistent with ongoing efforts across the Hanford Site.

Three tables in the report summarize the DOE Order applicability by the compliance categories, with a table for Level A, Level B, and Level C applicability.

The attachment to the report documents the compliance applicability assessment for each individual DOE Order.

1.0 INTRODUCTION

Compliance with applicable Department of Energy (DOE) Orders is an essential part of start-up of the newly constructed Hanford 300 Area Treated Effluent Disposal Facility (TEDF). The first step in determining compliance is reviewing the scope of the DOE Orders against the TEDF facility and its systems. This review will be used to determine if an individual DOE Order applies specifically to the TEDF, applies to TEDF but at a policy level, or does not apply to TEDF.

2.0 DESCRIPTION OF FACILITY

The 300 Area TEDF is designed for the collection, treatment, and eventual disposal of liquid waste from the 300 Area process sewer system. The process sewer currently discharges water to the 300 Area Process Trenches. The Hanford Federal Facility Agreement and Consent Order requires that no unpermitted liquids be discharged to the 300 Area process trenches after December 1994. At that time, operation of the TEDF is required to treat and dispose of these wastewaters.

The scope of the facility for the purposes of this Order compliance applicability assessment includes the facilities and systems of the Treated Effluent Disposal Facility, as constructed through the Hanford Environmental Compliance Subproject L-045H. The particular systems applicable are :

- Building 310 and the wastewater treatment equipment located within the building,

- Diversion tanks, equalization tank, and clarifiers directly outside of Building 310, along with piping and valve pits associated with these treatment tanks,

- Sludge storage area located directly outside of Building 310,

- Waste Collection Sump, Building 342, and associated pumping/control equipment (located at the Northeast corner of the 300 Area),

- Process Sewer piping from the Waste Collection Sump to Building 310, and

- Utilities routings north from the 300 Area to Building 310.

3.0 METHOD OF REVIEW

A total of 52 DOE Orders were selected for review against applicability to the TEDF. These orders are Level I Orders that have been of interest to the Defense Nuclear Facility Safety Board. The TEDF is a non-nuclear, low hazard facility, and not of particular interest to the DNFSB. This set of Orders was chosen on the basis of a Best Management Practice as it was an existing baseline and would ensure consistency with other reviews being performed on the Hanford Site.

A "FACILITY DOE ORDER EVALUATION FORM" was prepared for each of the 52 DOE Orders. This evaluations identified in a two step process:

- I Determine applicability of the overall Order - This portion of the review assesses TEDF hazards, operations, and requirements against the scope of the DOE Order to determine an overall applicability.
- II Determine the extent of applicability - This portion of the review assesses TEDF potential for increased risk to the public, worker, or the environment if there is a noncompliance with the DOE Order. Applicability is determined to be facility specific if there is a potential, while it is determined to be policy level if there is not potential.

4.0 CONCLUSIONS

The following three tables compile the results of the applicability review. Table 4.1 identifies the 20 DOE Orders that were determined to be applicable at a facility specific level. Table 4.2 identifies the 11 DOE Orders that were determined to be applicable at a policy level. Finally, Table 4.3 identifies the 21 DOE Orders that were determined to be not applicable to the TEDF.

The non-nuclear, low hazard classification of the TEDF was the most significant driver in the applicability assessment. This hazard category, as determined in WHC-SD-WM-SAD-025, eliminated a number of substantial DOE Orders dealing with nuclear safety issues.

**APPLICABILITY ASSESSMENT SUMMARY OF THE DNFSB 52 ORDERS OF INTEREST
FOR THE 300-AREA TREATED EFFLUENT DISPOSAL FACILITY (TEDF)
(Sorted by Classification)**

TABLE 4.1
CLASS A ORDERS
(Total: 20)

DOCUMENT	CL	DOCUMENT TITLE
4330.4B	A	Maintenance Management Program
5000.3B	A	Occurrence Reporting & Processing of Operations Information
5400.1	A	General Environmental Protection Program
5400.5	A	Radiation Protection of the Public & the Environment
5480.3	A ¹	Safety Requirements for the Packaging & Transportation of Hazardous Materials, Hazardous Substances & Hazardous Wastes
5480.7A	A	Fire Protection
5480.8A	A ¹	Contractor Occupational Medical Program
5480.9	A ¹	Construction Safety & Health Program
5480.10	A	Contractor Industrial Hygiene Program
5480.11	A ²	Radiation Protection for Occupational Workers
5480.19	A	Conduct of Operations Requirements for DOE Facilities
5480.26	A	Trending & Analysis of Operations Information Using Performance Indicators
5480.28	A ²	Natural Phenomena Hazards Mitigation

¹ This Class A Order requires only a policy level assessment.

² Compliance assessment not required. See applicability worksheet for more information.

APPLICABILITY ASSESSMENT SUMMARY OF THE DNFSB 52 ORDERS OF INTEREST
FOR THE 300-AREA TREATED EFFLUENT DISPOSAL FACILITY (TEDF)
(Sorted by Classification)

TABLE 4.1
CLASS A ORDERS
(Total: 20)

DOCUMENT	CL	DOCUMENT TITLE
5481.1B	A	Safety Analysis & Review
5483.1A	A	Occupational Safety & Health Program for DOE Contractor Employees at Government-Owned Contractor-Operated Facilities
5500.2B	A	Emergency Categories, Classes, & Notification & Reporting Requirements
5500.3A	A	Planning & Preparedness for Operational Emergencies
5700.6C	A	Quality Assurance
5820.2A	A	Radioactive Waste Management
6430.1A	A	General Design Criteria

**APPLICABILITY ASSESSMENT SUMMARY OF THE DNFSB 52 ORDERS OF INTEREST
FOR THE 300-AREA TREATED EFFLUENT DISPOSAL FACILITY (TEDF)
(Sorted by Classification)**

TABLE 4.2
CLASS B ORDERS
(Total: 11)

DOCUMENT	CL	DOCUMENT TITLE
1300.2A	B	Department of Energy Technical Standards Programs
1360.2B	B	Unclassified Computer Security Program
4700.1	B	Project Management System
5480.1B	B	Environment, Safety & Health Program
5480.4	B	Environmental Protection, Safety & Health Protection Standards
5480.29	B	Employee Concerns Management System
5482.1B	B	Environment, Safety, and Health Appraisal Program
5484.1	B	Environmental Protection, Safety, & Health Protection Information Reporting Requirements
5500.1B	B	Emergency Management System
5500.4A	B	Public Affairs Policy & Planning Requirements for Emergencies
5500.10	B	Emergency Readiness Assurance Program

**APPLICABILITY ASSESSMENT SUMMARY OF THE DNFSB 52 ORDERS OF INTEREST
FOR THE 300-AREA TREATED EFFLUENT DISPOSAL FACILITY (TEDF)
(Sorted by Classification)**

TABLE 4.3
CLASS C ORDERS
(Total: 21)

DOCUMENT	CL	DOCUMENT TITLE
1540.2	C	Hazardous Material Packaging for Transport - Administrative Procedures
1540.3A	C	Base Technology for Radioactive Material Transportation Packaging Systems
5400.2A	C	Environmental Compliance Issue Coordination
5400.3	C	Hazardous & Radioactive Mixed Waste Program
5400.4	C	Comprehensive Environmental Response, Compensation, & Liability Act Requirements
5440.1E	C	National Environmental Policy Act Compliance Program
5480.5	C	Safety of Nuclear Facilities
5480.6	C	Safety of DOE-Owned Nuclear Reactors
5480.15	C	DOE Laboratory Accreditation Program for Personnel Dosimetry
5480.17	C	Site Safety Representatives
5480.18A	C	Accreditation of Performance-Based Training for Cat. "A" Reactors & Nuclear Facilities
5480.20	C	Personnel Selection, Qualification, Training, & Staffing Requirements at DOE Reactor & Non-Reactor Nuclear Facilities
5480.21	C	Unreviewed Safety Questions
5480.22	C	Technical Safety Requirements
5480.23	C	Nuclear Safety Analysis Reports
5480.24	C	Nuclear Criticality Safety

APPLICABILITY ASSESSMENT SUMMARY OF THE DNFSB 52 ORDERS OF INTEREST
FOR THE 300-AREA TREATED EFFLUENT DISPOSAL FACILITY (TEDF)
(Sorted by Classification)

TABLE 4.3
CLASS C ORDERS
(Total: 21)

DOCUMENT	CL	DOCUMENT TITLE
5480.25	C	Safety of Accelerator Facilities
5480.30	C	Nuclear Reactor Safety Design Criteria
5480.31	C	Startup and Restart of Nuclear Facilities
5500.7B	C	Emergency Operating Records Protection Program
5632.11	C	Physical Protection of Unclassified, Irradiated Reactor Fuel in Transit

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 1300.2ATITLE: Department of Energy Standards Programs1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?

(Provide justification below)

YES X NO

Justification: This Order contains policy level guidance to ensure that applicable non-government standards are used in the design, construction, testing, operation, and D&D phases of a facility's life cycle and that these standards are properly documented in the appropriate design or safety analysis documents. The TEDF should use or reference non-government standards during these phases of its life cycle.

IF yes, THEN the Order may be either Class A or B.IF no, THEN the Order is class C.

2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)

YES NO X

Justification: Environmental Safety and Health programs such as fire protection, radiation protection, and industrial safety have non-government standards that are specified and implemented by DOE Orders specific to these functional areas. Additionally, requirements contained in Order 5481.1B, Safety Analysis and Review, and Order 6430.1A, General Design Criteria, ensure that applicable standards are used and documented in the facility's design and safety analysis documents. Noncompliance with the requirements of this Order would not directly impact the environment or the health and safety of the workers or the public, and would be identified through compliance assessments of the specific applicable Orders. Therefore, a facility specific assessment is not required for this Order.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".CLASSIFICATION: BPREPARED BY: W. B. Ford

W. B. Ford

DATE: 6/6/94REVIEWED BY: R. D. Mansonen

R. D. Mansonen

DATE: 6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 1360.2BTITLE: Unclassified Computer Security Programs

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
 (Provide justification below)
 YES X NO

Justification: This Order identifies programmatic requirements for ensuring that unclassified computer systems are appropriately protected from abuse and misuse, and that sensitive unclassified automated information is appropriately protected from unauthorized access. Although the TEDF does not utilize sensitive information, the facility does rely upon a Process Computer Control System (PCCS) to provide automatic process control and perform process monitoring.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
 YES NO X

Justification: The PCCS does not provide a safety function in regards to operation of the TEDF facility, which is a low hazard, non-nuclear facility. The PCCS does control the injection of chemicals such as ferric chloride, sodium hydroxide, hydrogen peroxide, and sulfuric acid into the process fluid. However, these chemicals are not utilized in concentrations or quantities that could represent a risk to the health and safety of the worker, public, or impact the environment through abuse or unauthorized use of the computer system.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: BPREPARED BY: W. B. FordDATE: 6/6/94REVIEWED BY: R. D. MansonenDATE: 6/6/94

**ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM**

DOE ORDER#: 4330.4B

TITLE: Maintenance Management Program

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
(Provide justification below)
YES X NO

Justification: This Order requires the establishment of a Maintenance Management Program to maintain DOE property in a way that promotes operational safety, worker health, environmental protection and compliance, property preservation and cost-effectiveness while meeting the programmatic mission.

Maintenance activities are performed at the TEDF on various systems and components that may impact worker safety. Inadequate maintenance may also result in leakage of hazardous materials to the environment.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
YES X NO

Justification: Noncompliance with the requirements of this Order could result in increased risk to the public, worker or environment if proper maintenance is not performed on TEDF structures, systems, and components.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: A

PREPARED BY:

W. B. Ford
W. B. Ford

DATE:

6/6/94

REVIEWED BY:

R. D. Mansonen
R. D. Mansonen

DATE:

6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 4700.1TITLE: Project Management System

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
(Provide justification below)
YES X NO

Justification: The DOE Project Management System does apply to the TEDF. Some key text which offers insight to the scope of this Order has been included on this classification evaluation form. The text shows that many of the elements of DOE Order 4700.1 are applicable to the TEDF, however a significant level of the implementing responsibility may fall upon the Site rather than the facility.

SUBJECT: PROJECT MANAGEMENT SYSTEM

1. PURPOSE. To establish the DOE project management system (PMS) and provide implementing instructions, formats, and procedures, and to set forth the principles and requirements which govern the development, approval, and execution of DOE's outlay program acquisitions as embodied in the PMS.
2. APPLICATION TO CONTRACTS. The provisions of this Order are to be applied to covered contractors and they will apply to the extent implemented under a contract or other agreement. A covered contractor is a seller of supplies or services involved with Major System Acquisitions (MSA), Major Projects, and Other Projects (MP), as defined at Figure I-1 on page I-3, Covered contractors shall be required to comply with all paragraphs of this Order except paragraph 10 on page 5.
4. POLICY.
 - a. It is Departmental policy to manage all projects in accordance with this Order.....
 - e. Formality and documentation requirements will be significantly greater for MSA and MP, but this fact does not lessen the responsibility for proper planning.... of any project. Acquisition Executives, PSOs and Heads of Field Elements shall ensure the PMS is implemented at a proper level in all projects.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
YES NO X

Justification: As explained above this Order provides guidance for project management and does not specify safety related criteria. Therefore, a policy level assessment will apply to this facility.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: BPREPARED BY: W. B. Ford

W. B. Ford

DATE: 6/6/94REVIEWED BY: R. D. Mansonen

R. D. Mansonen

DATE: 6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5000.3BTITLE: Occurrence Reporting and Processing of Operations Information

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
 (Provide justification below)
 YES X NO

Justification: This Order describes the requirements for reporting and processing of occurrences related to the operation of DOE facilities, including occurrences related to safety, health, security, property, operations, or environment up to and including emergencies. As the Order defines applicable facilities as "Any equipment, structure, system, process, or activity that fulfills a specific purpose. Examples include accelerators, storage areas, fusion research devices, nuclear reactors, production or processing plants, coal conversion plants, windmills, radioactive waste disposal systems, and burial grounds, environmental restoration activities,..." which encompasses the TEDF's mission of wastewater treatment, the TEDF is subject to the requirements of this Order.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
 YES X NO

Justification: Noncompliance with occurrence reporting requirements - which also includes the need for a system for determining appropriate corrective action and for ensuring that such action is effectively taken - may contribute to recurrence of incidents resulting in increased risks to the worker, public, or environment.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: A

PREPARED BY:

W. B. Ford
 W. B. Ford

DATE:

6/6/94

REVIEWED BY:

R. D. Mansonen
 R. D. Mansonen

DATE:

6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5400.1

TITLE: General Environmental Protection Program

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF)
? (Provide justification below).
YES X NO

Justification: This Order establishes environmental protection requirements for assuring compliance with applicable federal, state, and local environmental laws and regulations. The requirements include standards, notices of environmental occurrences, and environmental monitoring. The TEDF is subject to a portion of the environmental monitoring and surveillance requirements of this Order. For example, the facility effluent must be monitored to ensure compliance with the NPDES permitting requirements.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
YES X NO

Justification: Noncompliance with the applicable environmental requirements of this Order such as inadequate monitoring of TEDF effluents during routine or abnormal operations could result in an adverse impact on the environment.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: A

PREPARED BY:

W. B. Ford
W. B. Ford

DATE:

6/6/94

REVIEWED BY:

R. D. Marsonen
R. D. Marsonen

DATE:

6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5400.5TITLE: Radiation Protection of the Public and the Environment

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
 (Provide justification below)
 YES X NO

Justification: This Order provides several concepts that are related to the protection of the Public and Environment from Radiation. The TEDF operations can potentially result in the accumulation of radionuclides, primarily in the sludge and ion exchange resins, and release radioactive material to the environment. Radionuclides could be released to the public through property releases. This Order specifically discusses the processes of ALARA and Best Available Technology (BAT). Both of these are important processes which need to be implemented at the TEDF to minimize the potential hazard to the public or environment.

1. PURPOSE. To establish standards and requirements for operations of the Department of Energy (DOE) and DOE contractors with respect to protection of members of the public and the environment against undue risk from radiation.
6. OBJECTIVES.
- a. Protecting the Public. It is DOE's objective to operate its facilities and conduct its activities so that radiation exposures to members of the public are maintained within the limits established in this Order and to control radioactive contamination through the management of real and personal property. It is also a DOE objective that potential exposures to members of the public be as far below the limits as is reasonably achievable (ALARA) and that DOE facilities have the capabilities, consistent with the types of operations conducted, to monitor routine and non-routine releases and to assess doses to members of the public.
 - b. Protecting the Environment. In addition to providing protection to members of the public, it is DOE's objective to protect the environment from radioactive contamination to the extent practical.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)

YES X NO

Justification: Although the TEDF is a low hazard nonnuclear facility, the potential does exist for an accumulation of radionuclides in the facility, primarily in the sludge and in the ion exchangers. Therefore, noncompliance with the radiation protection requirements of Order 5400.5 could result in an increased risk of exposing the environment to radioactive materials. Noncompliance with this Order could also result in the exposure of the public to radiation (e.g. via release of property).

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: APREPARED BY: W. B. Ford

W. B. Ford

DATE: 6/6/94REVIEWED BY: R. D. Mansonen

R. D. Mansonen

DATE: 6/6/94

Page 7 of 52

**ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM**

DOE ORDER#: 5480.1B TITLE: Environment, Safety and Health Program

1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
(Provide justification below)
YES X NO

Justification: This Order identifies DOE's upper level programmatic policies, responsibilities, and authorities for implementing the DOE 5480 series of Orders. Typical activities and functions related to a comprehensive ES&H program include, but are not limited to, the following: environmental protection, occupational safety, fire protection, industrial hygiene, health physics, occupational medicine, process and facilities safety, nuclear safety, emergency preparedness, quality assurance, and radioactive and hazardous waste management. Specifically, this Order includes a contractor requirement for documenting exemptions to the DOE 5480 series of Orders.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
YES NO X

Justification: The only mandatory contractor requirement in this Order pertains to the identification of exemptions to the DOE 5480 series of Orders in the facility design documentation and safety analysis. Noncompliance with this requirement would not directly impact the environment or the health and safety of the workers or the public, and documentation of exemptions which are dependent on facility specific designs or safety analysis would be assessed through compliance assessments of the applicable DOE 5480 series Order(s). Therefore, a facility specific assessment is not required for this Order.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: B

PREPARED BY: W. B. Ford
W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. D. Mansoren
R. D. Mansoren

DATE: 6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5480.3

TITLE: Safety Requirements for the Packaging and Transportation of Hazardous Materials, Hazardous Substances and Hazardous Wastes

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
 (Provide justification below)
 YES X NO

Justification: This Order deals with the shipping of hazardous material offsite and, to a lesser extent, onsite shipments. The TEDF will generate hazardous waste, in the form of mercury-bearing spent resin, which will require transport over public highways, so this Order is applicable.

1. PURPOSE. To establish requirements for the packaging and transportation of hazardous materials, hazardous substances, and hazardous wastes.
3. SCOPE. The provisions of this Order apply to all Departmental Elements and contractors performing work for the Department as provided by law and/or contract and as implemented by the appropriate contracting officer, who are involved with the packaging and/or transportation (shipping, carrying, or receiving) of hazardous materials, hazardous substances, or hazardous wastes.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
 YES X NO

Justification: As the TEDF generates hazardous waste requiring shipment, a noncompliance to this order could increase risk to the public, worker, or environment. Shipment of hazardous materials, substances, or wastes will be done in cooperation with the Transportation and Packaging Group who will be responsible for providing proper shipping containers and direction as necessary. However, the hazardous material packaging and shipping program is implemented at the site level, so a policy level assessment will apply to this facility.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: A

PREPARED BY:

W. B. Ford
 W. B. Ford

DATE:

6/6/94

REVIEWED BY:

R. D. Hanson
 R. D. Hanson

DATE:

6/6/94

**ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM**

DOE ORDER#: 5480.4

TITLE: Environmental Protection, Safety and Health
Protection Standards

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
(Provide justification below)
YES X NO

Justification: Within this Order the Codes and Standards which are applicable to facility operations are identified, thus this Order is applicable.

1. PURPOSE. To specify and provide requirements for the application of the mandatory environmental protection, safety, and health (ES&H) standards applicable to all Department of Energy (DOE) and DOE contractor operations, to provide a listing of reference ES&H standards; and to identify the sources of the mandatory and reference ES&H standards.
3. SCOPE. The provisions of this Order apply to all Departmental Elements and contractors performing work for the Department as provided by law and/or contract and as implemented by the appropriate contracting officer.
4. APPLICABILITY. This Order shall be followed during facility design, construction, operation, modification, and decommissioning. Facilities covered by this Order include those owned, leased, or otherwise controlled by the DOE or leased by DOE contractors for use in work for the DOE, and include those of either a permanent or temporary nature (e.g., trailers, rented spaces, and field sites). Specifically, this Order is applicable in all situations where, under the contractual arrangements for the work to be performed, DOE has authority to establish and enforce environmental protection, safety, and health protection program requirements.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
YES NO X

Justification: The intent of Order 5480.4 is to specify mandatory standards to be used in the development of ES&H programs such as Fire Protection, Radiation Protection, Environmental Protection, etc. These standards are also implemented by other Orders specific to these functional areas. Potential noncompliances with the standards listed in this Order will be identified through compliance assessment of the specific applicable Orders. As a result, a facility specific assessment is not required.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: B

PREPARED BY: W. B. Ford
W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. D. Manson
R. D. Manson

DATE: 6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5480.7ATITLE: Fire Protection

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
 (Provide justification below)
 YES X NO

Justification: This Order is applicable because Fire protection systems are operated and maintained at the facility.

1. PURPOSE. To establish requirements for a comprehensive fire protection and related perils protection program sufficient to attain Department of Energy (DOE) objectives.
3. SCOPE.
 - a. Provisions: The provisions of this Order apply to all Departmental Elements. It specifically applies to personnel and property at all DOE-owned or -leased structures. This Order has primacy over all other DOE Orders with respect to matters concerning fire protection.
4. OBJECTIVES. The objectives of this Order are as follows:
 - a. Minimize the potential for the occurrence of a fire.
 - b. Ensure that fire does not cause an on-site or off-site release of radiological and other hazardous material that will threaten the public health and safety or the environment.
 - c. Establish requirements that will provide an acceptable degree of life safety to personnel and that there are no undue hazards to the public from fire and its effects in DOE facilities.
 - d. Ensure that process control and safety systems are not damaged by fire or related perils.
 - e. Ensure vital DOE programs will not suffer unacceptable delays as a result of fire....
 - f. Ensure that property damage from fire and related perils does not exceed an acceptable level.
5. MANDATORY FIRE PROTECTION CRITERIA. Fire protection criteria, delineated in the following codes, standards and other documents are the minimum requirements for the implementation of the DOE Fire Protection Program. These criteria are mandatory as a result of statutory requirements or DOE policy requirements. Where conflicts in the application of these codes and standards arise, the more restrictive requirements apply.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
 YES X NO

Justification: Noncompliance with the fire protection requirements of Order 5480.7A may result in increased risk to the worker or environment. A fire could result in property and/or personnel loss, or a release to the environment of hazardous chemicals utilized at the facility.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: APREPARED BY: W. B. FordDATE: 6/6/94REVIEWED BY: R. D. MansonenDATE: 6/6/94

**ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM**

DOE ORDER#: 5480.8A TITLE: Contractor Occupational Medical Program

1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
(Provide justification below)
YES X NO

Justification: This Order sets forth the requirements for the implementation of an occupational medical program. This program is to help protect employees from health hazards in the workplace, ensure consistency with the Americans with Disabilities Act, support Fitness for Duty and good health maintenance practices, and provide medical services to personnel at DOE installations, which includes the TEDF.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
YES X NO

Justification: Failure to provide medical services to personnel at the TEDF could result in increased risk to the workers' health and ability to perform job functions. However, because the Occupational Medical Program is implemented as a site-wide program administered by Hanford Environmental Health Foundation (HEHF), a facility specific assessment is not required for this Order.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: A

PREPARED BY: W. B. Ford
W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. D. Mansoren
R. D. Mansoren

DATE: 6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5480.9TITLE: Construction Safety and Health Program

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF)?
 (Provide justification below)
 YES X NO

Justification: This Order establishes procedures and guidance for protecting the public, worker, and adjacent property during construction activities at DOE facilities. Included are industrial safety and health protection features and fire prevention and protection aspects. Construction activities are performed at the TEDF. Thus, this Order is applicable.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
 YES X NO

Justification: If industrial safety/health features and fire prevention aspects of this Order are not complied with, there would be increased risk of accidents and fires and thus increased risk to the workers.

However, construction activities at the Hanford Site/TEDF are conducted by the contractors (not the facility) who is responsible for implementation of this Order. Thus, TEDF will not conduct a compliance assessment against this Order, and a policy level assessment will apply.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: A

PREPARED BY: W. B. Ford
 W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. D. Mahsonen
 R. D. Mahsonen

DATE: 6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5480.10

TITLE: Contractor Industrial Hygiene Program

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
(Provide justification below)
YES X NO

Justification: DOE Order 5480.10 is applicable to the TEDF. The purpose of this Order is to establish the requirements and guidelines applicable to DOE contractor operations for maintaining an effective industrial hygiene program to preserve employee health and well being.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
YES X NO

Justification: This Order provides guidance for the establishment and implementation of industrial hygiene related procedures and practices for minimizing exposure due to potential health hazards such as chemical carcinogens, and liquid and solid waste. Noncompliance with the provisions of the Order could potentially increase the risk to the worker or environment as a result of unrecognized hazards associated with plant equipment, material, facilities and operations.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: A

PREPARED BY:

W. B. Ford
W. B. Ford

DATE:

6/6/94

REVIEWED BY:

R. D. Manson
R. D. Manson

DATE:

6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5480.11 TITLE: Radiation Protection for Occupational Workers

1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
 (Provide justification below)

YES X NO

Justification: This Order is applicable to the TEDF because the potential exists for radioactive material to accumulate in the process system, primarily the sludge and ion exchangers, and expose occupational workers.

1. PURPOSE. To establish radiation protection standards and program requirements for the Department of Energy (DOE) and DOE contractor operations with respect to the protection of the worker from ionizing radiation.
2. SCOPE. The provisions of this Order apply to all Departmental Elements and contractors performing work for the Department as provided by law and/or contract and as implemented by the appropriate contracting officer.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)

YES X NO

Justification: Noncompliance with the radiation protection requirements of Order 5480.11 could increase the risk to the worker if there is a noncompliance during facility operations.

However, DOE-RL in a letter to WHC (94-OTD-004) dated February 1, 1994, directed that assessment activity on DOE 5480.11 related to DNFSB Recommendation 90-2 be suspended. The letter stated that the Order "does not reflect current DOE policy and standards for occupational radiation protection," and that assessment activities related to DNFSB Recommendation 90-2 should be suspended. Thus, a compliance assessment is not required.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: A

PREPARED BY:

W. B. Ford
 W. B. Ford

DATE: 6/6/94

REVIEWED BY:

R. D. Marsonen
 R. D. Marsonen

DATE: 6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5480.19 TITLE: Conduct of Operations Requirements for
Department of Energy Facilities

1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
 (Provide justification below).

YES X NO

Justification: This Order is applicable to the TEDF because it requires that operations at DOE facilities be managed, organized and conducted in a manner to assure an acceptable level of safety. Part of the Order's preamble has been included as justification to demonstrate the broad scope of this Order.

1. PURPOSE. To provide requirements and guidelines for Departmental elements to use in developing directives, plans, and/or procedures relating to the conduct of operations at DOE facilities. The implementation of these requirements and guidelines should result in improved quality and uniformity of operations.
2. SCOPE. The provisions of this Order apply to all Departmental elements and contractors performing work for the Department as provided by law and/or contract and as implemented by the appropriate contracting officer.
5. REQUIREMENTS.
 - a. Each DOE contractor shall use this Order and Att. I in the review and development of existing and proposed directives, plans, or procedures relating to the conduct of operations at DOE facilities.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)

YES X NO

Justification: Conduct of Operations includes the safe operation of the hazardous chemical handling systems in the TEDF, and proper operation of the process and effluent handling and monitoring equipment. Noncompliance with the applicable requirements of this Order could potentially increase the risk to the worker or environment as a result of improper operation of their facility equipment. Due to the broad scope of this Order, noncompliance could occur in many different types of areas i.e., operational error, training, posting error, tagout error, etc.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: A

PREPARED BY: W.B. Ford
 W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. D. Mansoren
 R. D. Mansoren

DATE: 6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5480.26TITLE: Trending and Analysis of Operations
Information Using Performance Indicators

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF)?
 (Provide justification below)
 YES: X NO:

Justification: This Order establishes a uniform system of Performance Indicators for trending and analyzing operational data from DOE facilities. The trend analysis may assist in early identification of potential environment, safety, health (ES&H), and operational conditions/problems; deteriorating/improving ES&H conditions; lessons learned; and good practices.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
 YES X NO

Justification: Noncompliance to the Order requirements may cause adverse trends of facility operations or conditions to go unrecognized and result in increased risk to personnel and the environment.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: A PREPARED BY: W. B. Ford
W. B. FordDATE: 6/6/94REVIEWED BY: R. D. Manson
R. D. MansonDATE: 6/6/94

**ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM**

DOE ORDER#: 5480.28 TITLE: Natural Phenomena Hazards Mitigation

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF)?
(Provide justification below)
YES X NO

Justification: This Order establishes requirements to ensure that DOE facilities are designed, constructed, and operated so that workers, the public and the environment are protected from the impacts of natural phenomena hazards (ie., earthquake, wind, precipitation, volcanic eruption, hurricane, tornado, flood, lightning, extreme cold and heat). Excepting specific exclusions, this order applies to all DOE sites and facilities and, therefore, applies to the TEDF.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
YES X NO

Justification: Noncompliance with the requirements of this Order could potentially increase the risk to the public, worker, or environment as a result of damage to TEDF structures, systems, and components from natural hazards (ie, earthquakes, tornados, floods) that have not been properly analyzed or designed.

In a letter to DOE dated October 7, 1993, WHC stated inability to determine compliance requirements pertaining to DOE Order 5480.28 because the guiding standards were not yet issued in final form. In addition, the DNFSB in a letter to DOE dated April 29, 1994 stated its belief that the subject Order and standards have certain generic deficiencies. The DNFSB also stated that comprehensive reevaluation and streamlining of the Order and standards are necessary to resolve the issues.

A compliance assessment to the subject Order is considered inappropriate until the above concerns are resolved.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: A

PREPARED BY: W. B. Ford
W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. D. Mansphen
R. D. Mansphen

DATE: 6/6/94

**ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM**

DOE ORDER#: 5480.29 TITLE: Employee Concerns Management System

1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
(Provide justification below):
YES X NO

Justification: This Order establishes the framework for promptly identifying, reporting, and resolving employee concerns regarding DOE facilities or operations. Although there are no mandatory contractor requirements identified in RSAD for this Order, as a DOE facility the TEDF personnel must be allowed access to the employee concerns program.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
YES NO X

Justification: Protection of the environment and the health and safety of the public and the workers is assured through application of the various environmental protection, safety analysis, and ES&H requirements. The requirements of this Order do not have direct impact upon the protection of the workers and public. Also, because the employee concerns program is administered as a site-wide program (via MRP 1.13), a facility specific assessment is not required for this Order.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: B

PREPARED BY: W. B. Ford
W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. D. Mansonen
R. D. Mansonen

DATE: 6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5481.1B TITLE: Safety Analysis and Review

1) Does the Order apply to the <u>Treated Effluent Disposal Facility (TEDF)</u> ? (Provide justification below) YES <u> X </u> NO <u> </u>

Justification: This Order establishes uniform requirements for the preparation and review of safety analysis of DOE operations, including identification of hazards, their elimination or control, assessment of the risk, and documented management authorization of the operation. As the provisions of this Order apply to all contractors performing work for DOE at nonnuclear facilities, it is applicable to the TEDF (for nuclear facilities, this Order was superseded by 5480.23).

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

2) <u>IF</u> applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below) YES <u> X </u> NO <u> </u>

Justification: The safety analysis process is intended to systematically identify the hazards of a DOE operation, to describe and analyze the adequacy of the measures taken to eliminate, control, or mitigate identified hazards, and to analyze and evaluate potential accidents and their associated risks. Therefore, noncompliances with this Order resulting in an inadequate safety analysis would increase the level of risk to the workers, public, or environment.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: A

PREPARED BY: W. B. Ford
 W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. D. Mansonen
 R. D. Mansonen

DATE: 6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5482.1B TITLE: Environment, Safety, and Health Appraisal Program

1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF)?

(Provide justification below)

YES X NO

Justification: ES&H programs encompass those DOE requirements, activities, and functions in the conduct of all DOE and DOE-controlled operations that are concerned with: controlling air, water, and soil pollution; limiting the risks to the well being of both operating personnel and the general public to acceptable low levels; and protecting property adequately against accidental loss and damage. Typical activities and functions related to this program include, but are not limited to, the following: environmental protection, occupational safety, fire protection, industrial hygiene, health physics, occupational medicine, process and facilities safety, nuclear safety, emergency preparedness, quality assurance, and radioactive and hazardous waste management. Therefore, this Order is applicable to the TEDF.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)

YES NO X

Justification: Noncompliance with the requirements of this Order will not impact the TEDF operations in a way that the risk to the public, worker, or environment is increased. The Order only establishes a system to measure the effectiveness of operations. Thus, a facility specific compliance assessment is not necessary.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: B

PREPARED BY:

W. B. Ford
W. B. Ford

DATE:

6/6/94

REVIEWED BY:

R. D. Manson
R. D. Manson

DATE:

6/6/94

**ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM**

DOE ORDER#: 5483.1A TITLE: Occupational Safety and Health Program for
Department of Energy Contractor Employees at
Government-Owned Contractor-Operated
Facilities

1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
(Provide justification below)
YES X NO

Justification: This Order provides guidance for the establishment and implementation of OSHA-related procedures and practices for minimizing hazards such as exposure to toxic materials and reciprocating equipment that could present situations of imminent danger to the workers. This Order also sets forth requirements regarding safety and health inspections, handling and resolution of OS&H related complaints, injury and illness reporting and recordkeeping, and accident investigations. As a GOCO facility, the TEDF is subject to the requirements of this Order.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
YES X NO

Justification: The presence of hazards typically found in an industrial complex, i.e., moving machinery, hoisting and rigging equipment, elevated work, etc., necessitates adherence to occupational health and safety requirements. Noncompliance with the requirements of this Order could result in increased risk to the worker from undue exposure to occupational hazards.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: A

PREPARED BY: W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. D. Manson

DATE: 6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5484.1TITLE: Environmental Protection, Safety, and Health
Protection Information Reporting Requirements1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF)?

(Provide justification below)

YES X NO

Justification: This Order establishes the requirements and procedures for the investigation of occurrences having environmental protection, safety, or health protection significance, and for efficient and environmental monitoring of DOE operations. The potential exists for an environmental, safety, or health accident to occur at the TEDF that would require an investigation and follow-up report. Thus, this Order is applicable.

IF yes, THEN the Order may be either Class A or B.IF no, THEN the Order is class C.

2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)

YES NO X

Justification: As stated in the scope, the Order does not apply to the reporting and analysis of operational occurrences by the line organizations for the purpose of minimizing recurrence and improving operations, which is addressed in DOE 5000.38. DOE Order 5000.38 is included in TEDF's compliance assessment scope, therefore a facility specific assessment against the requirements of DOE Order 5484.1 is not required.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".CLASSIFICATION: B

PREPARED BY:

W.B. Ford
W. B. Ford

DATE:

6/6/94

REVIEWED BY:

R. D. Manson
R. D. Manson

DATE:

6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5500.1B

TITLE: Emergency Management System

1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?

(Provide justification below)

YES X NO

Justification: This Order sets forth the requirements for an Emergency Management System (EMS) capable of responding to and mitigating the consequences resulting from Operation, Energy, and Continuity of Government (COG) Emergencies by:

- (1) Operating facilities and conducting operations and activities in a responsible manner
- (2) Developing and maintaining emergency planning, preparedness, and response capabilities as well as effective public and interagency communications
- (3) Identifying emergency events, making appropriate notifications, and responding to emergencies in an effective and timely manner

This Order applies at DOE facilities, which includes accelerators, storage areas, fusion research devices, nuclear reactors, production or processing plants, coal conversion plants, magnetohydrodynamics experiments, windmills, radioactive waste disposal systems and burial grounds, testing laboratories, research laboratories, transportation activities, and accommodations for analytical examinations of irradiated and unirradiated components. Therefore, this Order is applicable to the TEDF.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)

YES NO X

Justification: This Order involves the exemption process for the EMS, and relates to communication and decisions at WHC corporate level with DOE-RL and HQ. As a result, a noncompliance with the requirements of this Order will not increase the risk to the worker or the environment. A facility specific assessment is not required.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: B

PREPARED BY:

W. B. Ford
W. B. Ford

DATE:

6/6/94

REVIEWED BY:

R. D. Manson
R. D. Manson

DATE:

6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5500.2BTITLE: Emergency Categories, Classes, and
Notification and Reporting Requirements

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
 (Provide justification below)
 YES X NO

Justification: As the TEDF is subject to the requirements for an emergency management system, it is subject to the requirements of this Order which establishes the emergency categories, classes, and notification and reporting requirements associated with emergency events.

1. PURPOSE. To establish Department of Energy (DOE) emergency categories, classes, and notification and reporting requirements to facilitate the communication and reporting of emergency events.
3. SCOPE. ...this Order apply to all DOE Elements and contractors performing work for DOE as provided for by law and/or contract and as implemented by the appropriate contracting officer.
9. CONCEPT OF OPERATIONS.
 - a. The manager of the facility, whether a DOE or DOE contractor employee, is required to promptly notify state, tribal, local, DOE, and
10. RESPONSIBILITIES AND AUTHORITIES. These responsibilities and authorities are supplemental to those in DOE 5500.1B, although some authorities and responsibilities are repeated for emphasis within the context of this Order.
11. CATEGORIES AND CLASSES OF EMERGENCY EVENTS. Emergencies which involve or affect DOE are grouped into three broad categories defined as Operational, Energy, and COG. These emergency events may result from operations of facilities,... These categories are further divided by degree by ...

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
 YES X NO

Justification: This Order identifies requirements to ensure that facility specific resources and equipment are in place for mitigation of emergencies and that procedures exist for proper event classification, notification and reporting. Noncompliance with these requirements could increase the risk to the public, worker or environment due to occurrence of emergency events that are not properly responded to or prepared for.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: A PREPARED BY: W. B. FordDATE: 6/6/94REVIEWED BY: R. D. MarsonenDATE: 6/6/94

**ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM**

DOE ORDER#: 5500.3A TITLE: Planning and Preparedness for Operational Emergencies

1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
(Provide justification below)
YES X NO

Justification: This Order establishes the requirements for planning and preparedness for Operational Emergencies involving DOE, and applies to all contractors performing work for DOE as provided for by law and/or contract and as implemented by the appropriate contracting officer. Therefore, this Order is applicable to the TEDF.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
YES X NO

Justification: This Order contains requirements for identifying facility specific equipment, resources and procedures for mitigating the occurrence or consequences of an event. The technical basis for this program is provided by a facility specific hazards assessment which is used to determine the extent and scope of emergency planning and preparedness activities. A noncompliance involving unrecognized hazards or poorly staffed and equipped emergency response personnel could potentially increase the risk to the worker or environment.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: A

PREPARED BY: W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. D. Marsonen
R. D. Marsonen

DATE: 6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5500.4A

TITLE: Public Affairs Policy and Planning
Requirements for Emergencies

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
(Provide justification below)
YES X NO

Justification: This Order establishes requirements for public affairs actions for emergency situations, and to provide guidelines for developing a public information plan that will ensure that necessary public affairs actions are planned, coordinated, and taken as an integral part of the total emergency response effort. Because the TEDF is a facility in which an emergency could occur, thus necessitating the release of information to the public, the requirements of this Order apply.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
YES NO X

Justification: This Order deals with planning, coordinating, compiling, and releasing of information regarding emergency situations if such situations arise. Primarily, it ensures proper presentation of the Emergency Management System (EMS) to the public. The requirements for the implementation of the EMS are set forth in the DOE 5500 series of orders. Therefore, the requirements of this Order (5500.4A) do not have direct impact upon risk to the public, worker, or environment. In addition, the requirements of this Order are implemented sitewide for all facilities, and a policy level compliance assessment will apply for this facility.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: B

PREPARED BY: W. B. Ford
W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. D. Mansonen
R. D. Mansonen

DATE: 6/6/94

**ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM**

DOE ORDER#: 5500.10

TITLE: Emergency Readiness Assurance Program

1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?

(Provide justification below)

YES X NO

Justification: This Order establishes the requirements of the Emergency Readiness Assurance Program with a goal of assuring that the DOE Emergency Management System (EMS) is ready to respond promptly, efficiently, and effectively to any emergency involving DOE facilities or requiring DOE assistance. It includes the requirements for Emergency Readiness Assurance Plans (ERAP) and Appraisals. As an industrial emergency could occur at the TEDF, this Order is applicable.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)

YES NO X

Justification: This Order specifies the policy level requirements for developing and maintaining ERAPS and conducting appraisals. Noncompliance with the requirements of this Order will not increase the risk to workers, public, or the environment. Also, because the ERAP is implemented site-wide, a policy level assessment will apply to this facility.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: B

PREPARED BY:

W. B. Ford
W. B. Ford

DATE:

4/6/94

REVIEWED BY:

R. D. Manson
R. D. Manson

DATE:

6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5700.6C TITLE: Quality Assurance

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF)?
 (Provide justification below)

YES X NO

Justification: This Order establishes quality assurance requirements to ensure that risks and environmental impacts are minimized and that safety, reliability, and performance are maximized through the application of effective management systems commensurate with the risks posed by the facility and its work. As the Order states "The provisions of this Order apply to the work performed by all... management and operating contractors...", the TEDF is required to have a Quality Assurance Program in place. Thus, this Order is applicable.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)

YES X NO

Justification: Noncompliance with the applicable requirements of this Order could increase the risk to the public, worker or environment due to improper inspection, testing and surveillance of TEDF equipment, material, facilities and operations.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: A

PREPARED BY:

W. B. Ford
 W. B. Ford

DATE:

6/6/94

REVIEWED BY:

R. D. Mansonen
 R. D. Mansonen

DATE:

6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5820.2A TITLE: Radioactive Waste Management

1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
(Provide justification below)

YES X NO

Justification: Although the TEDF is a low hazard nonnuclear facility, the potential does exist for an accumulation of radionuclides in waste generated by the facility, primarily in the ion exchangers and the sludge. Also, the accumulation of mercury in the ion exchange resins creates the potential for a mixed waste. These wastes must be packaged for short term storage at the TEDF facility, then for transport to onsite disposal. Therefore, this Order is applicable to the TEDF facility.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)

YES X NO

Justification: This Order provides guidance for handling, packaging, transporting and burial of radioactive wastes. Improper management of radioactive waste could potentially increase the risk to the public, worker or environment.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: A

PREPARED BY:

W. B. Ford
W. B. Ford

DATE:

6/6/94

REVIEWED BY:

R. D. Mansonen
R. D. Mansonen

DATE:

6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 6430.1A TITLE: General Design Criteria

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
 (Provide justification below)

YES X NO

Justification: Incorporation of information delineated in Order 6430.1A is important to the TEDF to ensure design codes and standards are utilized to demonstrate that the facility will operate safely, supporting the ability to maintain the health and welfare of the worker, the public and the environment. The scope of this Order states "The provisions of this Order apply to all Departmental Elements except as otherwise provided by statute or by specific delegation of authority from the Secretary of Energy, and all contractors and subcontractors performing work for the Department whose contract may involve planning, design, or facility acquisitions. This includes DOE-owned, -leased, or -controlled sites where Federal funds are used totally or in part, except where otherwise authorized by separate statute or where specific exemptions are granted by the Secretary or his designee." Therefore, this Order is applicable to the TEDF.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)

YES X NO

Justification: This Order ensures that DOE facilities are designed and constructed to be reasonable and adequate for their intended purpose and consistent with health, safety, security, and environmental protection requirements. A noncompliance with this Order could increase the risk to the workers, public, or environment.

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: A

PREPARED BY:

W. B. Ford
 W. B. Ford

DATE:

6/6/94

REVIEWED BY:

R. D. Manson
 R. D. Manson

DATE:

6/6/94

**ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM**

DOE ORDER#: 1540.2

TITLE: Hazardous Material Packaging for Transport -
Administrative Procedures

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
(Provide justification below)
YES NO X

Justification: This Order establishes administrative procedure for the certification and use of packaging for radioactive and other hazardous materials. The TEDF will generate hazardous and possibly radioactive waste (primarily sludge and/or spent resins) requiring shipment over public highways on the Hanford site. These shipments would require the use of certified packaging. However, the contractor requirements set forth in this Order primarily address the administrative aspects of obtaining packaging certifications, renewing certificates of compliance (COCs), use of DOT exemptions, and other aspects of certifying packaging, which are the primary responsibilities of the site Transportation and Packaging organization, not the TEDF. Therefore, the requirements of this Order do not apply to the TEDF.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
YES NO

Justification: N/A

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: C

PREPARED BY: W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. D. Manson

DATE: 6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 1540.3A TITLE: Base Technology for Radioactive Material Transportation Packaging Systems

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
(Provide justification below)
YES NO X

Justification: The purpose of Order 1540.3A is to establish Department of Energy policies and responsibilities for coordinating and planning base technology for radioactive material transportation packaging systems. Base technology is all technology underlying the design, development, and testing of nuclear materials packaging systems and operations. The TEDF is not involved with design, development, or testing of nuclear packaging systems.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
YES NO

Justification: N/A

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: C

PREPARED BY: W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. D. Manson

DATE: 6/6/94

**ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM**

DOE ORDER#: 5400.2A TITLE: Environmental Compliance Issue Coordination

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
(Provide justification below)
YES NO X

Justification: The purpose of this Order is to establish the Department of Energy requirements for coordination of significant environmental compliance issues to ensure timely development and consistent application of Departmental environmental policy and guidance. Departmental environmental policy and guidance will not be developed at the facility level, therefore this Order is not applicable to the TEDF.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
YES NO

Justification: N/A

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: C

PREPARED BY: W. B. Ford
W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. D. Manson
R. D. Manson

DATE: 6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5400.3TITLE: Hazardous and Radioactive Mixed Waste Program

1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
 (Provide justification below)

YES NO X

Justification: This Order identifies DOE's upper level policies, responsibilities and authorities for managing radioactive mixed wastes. The requirements of this Order do not apply to the facility level.

The stated purpose of this Order is to establish Department of Energy hazardous and radioactive mixed waste policies and requirements and to implement the requirements of the Resource Conservation and Recovery Act (RCRA) within the framework of the environmental programs established under DOE 5400.1.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)

YES NO

Justification: N/A

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: C

PREPARED BY:

W. B. Ford
 W. B. Ford

DATE:

6/6/94

REVIEWED BY:

R. D. Manson
 R. D. Manson

DATE:

6/6/94

**ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM**

DOE ORDER#: 5400.4 TITLE: Comprehensive Environmental Response, Compensation, and Liability Act Requirements

<p>1) Does the Order apply to the <u>Treated Effluent Disposal Facility (TEDF)</u> ? (Provide justification below) YES ☐ NO ☒ <u>X</u></p>
<p><small>Justification: This Order identifies the Department of Energy (DOE) responsibilities to establish and implement DOE Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) policies and procedures. Since the requirements of this Order do not apply at the facility level, this Order is not applicable to the TEDF.</small></p>

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

<p>2) <u>IF</u> applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below) YES ☐ NO ☐</p>
<p><small>Justification: N/A</small></p>

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: C

PREPARED BY: W. B. Ford
 W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. D. Manson
 R. D. Manson

DATE: 6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5440.1E TITLE: National Environmental Policy Act Compliance Program

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
 (Provide justification below)
 YES _____ NO X

Justification: This Order establishes the internal DOE responsibilities and procedures required to implement the National Environmental Policy Act (NEPA) of 1969. The requirements of this Order do not apply at the facility level, therefore this Order is not applicable to the TEDF.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
 YES _____ NO _____

Justification: N/A

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: C

PREPARED BY: W. B. Ford
 W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. D. Manson
 R. D. Manson

DATE: 6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5480.5TITLE: Safety of Nuclear Facilities1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF)?

(Provide justification below)

YES ☐ NO ☒

Justification: Although the potential does exist for low concentrations of radionuclides to enter the TEDF facility (upstream monitoring is in place to diminish this potential) this would represent an incidental accumulation, not in such form and quantity that a nuclear hazard would exist to the employees, public, or environment. These concentrations are below the DOE-STD-1027-92 Criteria 3 limits. Therefore the TEDF is classified as a non-nuclear facility, is not specifically designed to remove or treat radionuclides, and is not subject to the requirements of this Order.

IF yes, THEN the Order may be either Class A or B.IF no, THEN the Order is class C.

2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)

YES ☐ NO ☒

Justification: N/A

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".CLASSIFICATION: C

PREPARED BY:

 W. B. Ford

DATE:

6/6/94

REVIEWED BY:

 R. Q. Manson

DATE:

6/6/94

**ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM**

DOE ORDER#: 5480.6

TITLE: Safety of Department of Energy Owned Nuclear Reactors

1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
(Provide justification below)
YES NO X

Justification: The TEDF is not a Reactor.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
YES NO

Justification: N/A

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: C

PREPARED BY: W. B. Ford
W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. D. Manson
R. D. Manson

DATE: 6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5480.15 TITLE: Department of Energy Laboratory Accreditation Program for Personnel Dosimetry

1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
 (Provide justification below)

YES NO X

Justification: This Order is not applicable. The Order applies to the process by which the Dosimetry Program (administered by Pacific Northwest Laboratories as a site wide program) receives accreditation. The accreditation process consists of performance testing personnel dosimeters and site visits by assessors.

4. BACKGROUND.

- a. The Department of Energy Laboratory Accreditation Program for personnel dosimetry is established to ensure the integrity of dosimetry results. Accreditation is based on the results of a performance testing laboratory evaluation of the dosimeter against established criteria and an onsite assessment of the quality assurance, documentation, and technical adequacy of the system.
- b. The Department's Accreditation Program is managed through the Office of Nuclear Safety, EH-33, by a designated program administrator who establishes accreditation program procedures, selects a pool of technical experts who may serve as onsite assessors or members of the Oversight or Appeals Boards, and designates the Performance Evaluation Administrator and performance testing laboratories. The Performance Evaluation Administrator is responsible for conducting the performance testing and site assessments. Results of the performance test and the site assessment are submitted by the Performance Evaluation Administrator to the Oversight Board which reviews this documentation and makes recommendations concerning accreditation to the Program Administrator. The Program Administrator reviews the recommendations and makes the final decision regarding accreditation. Should accreditation be denied, appeals are reviewed by the Appeals Board.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)

YES NO

Justification: N/A

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: C

PREPARED BY: W. B. Ford
 W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. D. Manson
 R. D. Manson

DATE: 6/6/94

**ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM**

DOE ORDER#: 5480.17 TITLE: Site Safety Representatives

1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
(Provide justification below)

YES NO X

Justification: This Order was written to establish the interim functions and procedures for Environment, Safety and Health (EH) organization Site Safety Representatives. These safety representatives do not report within the purview of the TEDF, and the requirements of this Order have no direct impact on the environment or health and safety of the public and workers.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)

YES NO

Justification: N/A

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: C

PREPARED BY: W.B. Ford
W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. G. Manson
R. G. Manson

DATE: 6/6/94

**ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM**

DOE ORDER#: 5480.18A

TITLE: Accreditation of Performance-Based Training
for Category "A" Reactors and Nuclear
Facilities

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
(Provide justification below)
YES NO X

Justification: This Order identifies specific nuclear facilities to which this order is applicable. The TEDF, being a low hazard, non-nuclear facility, is not identified.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
YES NO

Justification: N/A

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: C

PREPARED BY: W.B. Ford
W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. P. Marston
R. P. Marston

DATE: 6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5480.20 TITLE: Personnel Selection, Qualification, Training, and Staffing Requirements at Department of Energy Reactor and Non-Reactor Nuclear Facilities

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
 (Provide justification below)
 YES NO X

Justification: Although the potential does exist for low concentrations of radionuclides to enter the TEDF facility (upstream monitoring is in place to diminish this potential) this would represent an incidental accumulation, not in such form and quantity that a nuclear hazard would exist to the employees, public, or environment. These concentrations are below the DOE-STD-1027 Criteria 3 limits. Therefore the TEDF is classified as a non-nuclear facility, is not specifically designed to remove or treat radionuclides, and is not subject to this Order.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
 YES NO

Justification: N/A

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: C

PREPARED BY: W. B. Ford
 W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. D. Mansonen
 R. D. Mansonen

DATE: 6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5480.21 TITLE: Unreviewed Safety Questions

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF ?
 (Provide justification below)
 YES _____ NO X _____

Justification: The provisions of this Order apply to DOE-owned or leased nuclear facilities. Although the potential does exist for low concentrations of radionuclides to enter the TEDF facility (upstream monitoring is in place to diminish this potential) this would represent an incidental accumulation, not in such form and quantity that a nuclear hazard would exist to the employees, public, or environment. These concentrations are below the DOE-STD-1027-92 Criteria 3 limits. Therefore the TEDF is classified as a non-nuclear facility, is not specifically designed to remove or treat radionuclides, and is not subject to the requirements of this Order.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
 YES _____ NO _____

Justification: N/A

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: C

PREPARED BY: W. B. Ford
 W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. D. Mansonen
 R. D. Mansonen

DATE: 6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5480.22 TITLE: Technical Safety Requirements

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
 (Provide justification below)
 YES NO X

Justification: The provisions of this Order apply to DOE-owned or leased nuclear facilities. The TEDF is a non-nuclear facility.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
 YES NO

Justification: N/A

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: C

PREPARED BY: W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. D. Mansonen

DATE: 6/6/94

**ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM**

DOE ORDER#: 5480.23 TITLE: Nuclear Safety Analysis Reports

1) Does the Order apply to the <u>Treated Effluent Disposal Facility (TEDF)</u> ? (Provide justification below) YES ☐ NO ☒
Justification: The TEDF is a non-nuclear facility. The safety analysis for this facility is conducted in accordance with DOE 5481.1B.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

2) <u>IF</u> applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below) YES ☐ NO ☐
Justification: N/A

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: C

PREPARED BY: W. B. Ford
 W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. D. Mansonen
 R. D. Mansonen

DATE: 6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5480.24 TITLE: Nuclear Criticality Safety

1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF)?
(Provide justification below)

YES ☐ NO ☒

Justification: The TEDF is a low hazard, non-nuclear facility, and a nuclear criticality is not a credible event.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)

YES ☐ NO ☐

Justification: N/A

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: C

PREPARED BY: W. B. Ford
W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. D. Mansonen
R. D. Mansonen

DATE: 6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5480.25

TITLE: Safety of Accelerator Facilities

1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
(Provide justification below)

YES ☐ NO ☒

Justification: The TEDF is not an accelerator.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)

YES ☐ NO ☐

Justification: N/A

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: C

PREPARED BY: W. B. Ford
W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. D. Mansonen
R. D. Mansonen

DATE: 6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5480.30TITLE: Nuclear Reactor Safety Design Criteria

1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
(Provide justification below)

YES NO X

Justification: The TEDF is not a Reactor.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)

YES NO

Justification: N/A

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: CPREPARED BY: W. B. Ford

W. B. Ford

DATE: 6/6/94REVIEWED BY: R. D. Manson

R. D. Manson

DATE: 6/6/94

**ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM**

DOE ORDER#: 5480.31

TITLE: Startup and Restart of Nuclear Facilities

1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?

(Provide justification below)

YES NO X

Justification: As the TEDF is classified as a non-nuclear facility, it is not subject to the requirements of this Order. However, DOE in a letter to the President, WHC, dated February 17, 1994, concurs with the WHC approach of conducting a TEDF readiness review equivalent to a Type 5 startup. DOE also states that it intends to conduct a readiness review of its own, incremental to the WHC efforts, with the depth of review uncertain at that time, and that DOE wants to remain fully informed of readiness review activities, requesting a schedule for a Operational Readiness Review (ORR) Plan. Although this Order is not applicable, it could conceivably be used as reference or guidance for the DOE readiness review.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)

YES NO

Justification: N/A

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: C

PREPARED BY:

W. B. Ford
W. B. Ford

DATE:

6/6/94

REVIEWED BY:

R. D. Manson
R. D. Mansonen

DATE:

6/6/94

ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM

DOE ORDER#: 5500.7BTITLE: Emergency Operating Records Protection Program

- 1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF)?
 (Provide justification below)

YES ☐ NO ☒

Justification: This Order establishes the requirements for a Departmental Emergency Operating Records Protection Program to safeguard that core of records deemed necessary to assure continuity of essential Governmental activities during and following disaster and attack-related emergency conditions. This Order defines Emergency Operating Records to be "Records vital to the essential functions of the Federal Government for the duration of an emergency resulting from an industrial accident, natural disaster, or an attack on the country." As a water treatment facility for the 300 Area, operation of the TEDF during an emergency situation is not necessary to assure continuity of essential Governmental activities.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

- 2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)

YES ☐ NO ☐

Justification: N/A

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: C

PREPARED BY:

W. B. Ford
 W. B. Ford

DATE: 6/6/94

REVIEWED BY:

R. D. Manson
 R. D. Manson

DATE: 6/6/94

**ATTACHMENT 1
FACILITY DOE ORDER EVALUATION FORM**

DOE ORDER#: 5632.11 TITLE: Physical Protection of Unclassified,
Irradiated Reactor Fuel in Transit

1) Does the Order apply to the Treated Effluent Disposal Facility (TEDF) ?
(Provide justification below)
YES NO X

Justification: The TEDF does not become involved with providing physical protection of shipments of unclassified irradiated reactor fuel.

IF yes, THEN the Order may be either Class A or B.

IF no, THEN the Order is class C.

2) IF applicable, is there a potential for increased risk to the public, worker, or environment if there is a noncompliance with the requirements of this Order during facility operations? (Provide justification below)
YES NO

Justification: N/A

IF no, THEN the Order is Class B, which requires only a policy level assessment be performed in accordance with WHC-IP-0836.

IF yes, THEN the Order is Class A, which may require a facility specific assessment be performed in accordance with WHC-IP-0836 "Order Compliance Administration".

CLASSIFICATION: C

PREPARED BY: W. B. Ford
W. B. Ford

DATE: 6/6/94

REVIEWED BY: R. D. Mansonen
R. D. Mansonen

DATE: 6/6/94