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WHC-CM-7-5  
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TO: DEBRA A ISOM  
H6-08  
0413  
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TITLE: *Environmental Compliance*  
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Date Prepared: December 27, 1995

I have entered this release into the document per instructions.  
*Debra A. Isom* 1/5/96  
Signature Date  
If you have any questions about this release contact:  
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INSTRUCTIONS

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9.0, New Construction and Facility Modifications	i - 6	0	3/1/93	i - 6	1	1/11/96

Route a copy of the implementation notice to all users of this copy of the manual.

IMPLEMENTATION NOTICE

Summary of Changes: Most of this section has been rewritten to reflect changes in scope and requirements. New tables have been added to assist in locating requirements criterion. The old figure Table 9.1 has been deleted and a new table was added. The title of this section has also changed from *New and Modified Facilities*.

Impacts: This section places more responsibility on the facility, with Environmental Services providing support as requested.



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**New Construction and Facility Modifications**

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## 9.1 PURPOSE

The purpose of this section is to assist the cognizant manager or project/cognizant engineer in identifying the environmental permits/approvals/reviews applicable to new construction and facility modifications managed by WHC and its subcontractor(s), with the potential to impact the environment. It provides a table that can be used to identify areas of environmental concern (Table 9.2), and one that can be used to identify environmental permits/approvals/reviews (Table 9.1). Table 9.1 also provides an ECM reference for more information related to each type of environmental media.

**BASIS:** WHC-CM-1, "Environmental, Safety and Health Policy." "Assure that all activities are strictly controlled. From design to operation and maintenance, all structures, systems, and components must meet safety and environmental requirements.

## 9.2 SCOPE

The provisions of this section apply to all new construction and other facility modifications managed by WHC and its subcontractor(s), with the potential to impact the environment.

A summary list of environmental permits and approvals, and associated ECM reference, potentially applicable to WHC projects and activities is provided in Table 9.1.

Table 9.2, Initial Determination of Areas of Environmental Concern, is provided as an example of a tool which can be utilized to screen activities.

## 9.3 RESPONSIBILITIES

### 9.3.1 Cognizant Manager or Project/Cognizant Engineer

1. Identify all applicable environmental Federal, State, and local policies and programs for new construction and modifications to facilities managed by WHC and its subcontractor(s). Table 9.1 can be used to document environmental permits/approvals/reviews potentially applicable to new construction and modifications to facilities managed by WHC and its subcontractor(s). Table 9.2 can be used for an initial determination of areas of environmental concern. Also see WHC CM-6-2.
2. Assign environmental approval requirements in accordance with section 13.5.2 of this manual.

**BASIS:** DOE 4700.1 - A comprehensive review of all applicable Federal, State, and local policies, programs, and regulations and identification of all requirements is required.

### 9.3.2 Environmental Compliance Officer (ECO) or Designated Representative

Conduct technical review of documentation affecting the environmental function of the facility in accordance with Section 13 of this manual.

As requested, provide assistance to cognizant managers and engineers with implementation of this section.

### 9.3.3 Project Services

As requested, provide assistance to cognizant managers, engineers, or ECO's to document areas of environmental concern, and applicable environmental permits/approvals and reviews for new construction and modifications to facilities managed by WHC and its subcontractor(s).

### 9.4 DESIGNATED REVIEWING ORGANIZATIONS

Organizations listed below are responsible for this process. If you have any questions about this procedure, please contact the process owner.

#### Designated Reviewing Organizations

#### CMPOC

Environmental Services (process owner)  
Construction Projects  
Liquid Effluents Services  
Spent Nuclear Fuel  
B Plant  
Fast Flux Test Facility  
Fuel Fabrication Facilities Transition Project  
PUREX Plant  
Training Services  
Tank Waste Remediation System  
Operations Maintenance Programs Improvements  
ICF Kaiser Hanford

PSO/ES  
PSS/CP  
PSS/LES  
SNF  
TRP/BP  
TRP/FTF  
TRF/FFT  
TRP/PRX  
TRP/TRS  
TWR  
TWR/OMP  
ICF KH

Table 9.1. Summary Checklist of Potential Permits/Approvals/Reviews

ENVIRONMENT-MEDIA	PERMIT, APPROVAL, or REQUIREMENT	REGULATION(S)	REGULATORY AGENCY	RESTRICTION	ECM ref Sec
NEPA	NEPA Documentation	10 CFR 1021	DOE	Title II Design (Projects); Procurement	4
SEPA	SEPA	WAC 197-11	State Agency	License; Permit	4
Nonrad. Air Emissions	New Source Review/NOC; Source Registration ↓ ↓	WAC 173-400-040; WAC 173-400-110; APCA Reg. 1	Ecology; APCA	Construction	
	PSD	WAC 173-400-141	Ecology; APCA	Construction	2
	TAPs	WAC 173-460-030 -040	Ecology; APCA	Construction	2
Radioactive Air Emissions	NESHAPs	40 CFR 61, Subpart H	EPA	Construction	2
	Radiation Protection - Air Emissions	WAC 246-247	DOH	Construction; Operation	2
All Air Emissions	Air Operating Permit	WAC 173-401	Ecology; DOH; EPA	Operation	2
Asbestos	NOI	APCA Reg. 1, Article 8; 40 CFR 61, Subpart M	APCA	Before Working with Asbestos	2
Outdoor or Unconfined Burning	Burn Permit	WAC 173-425; APCA Reg. 1, Article 5	Hanford Fire Department	Open Burning	2
Ozone Depleting Substances/ CFCs	Release Prevention; Recovery/Recycle; Certification Labeling	40 CFR 82	Ecology	Reporting; Training; Operation	2
Soil Column	SWDP	WAC 173-216	Ecology	Operation	8
Waste Water Disposal	Approval of Engr. Report, Plans & Specs., and O&M Manual	WAC 173-240	Ecology	Construction	8

New Construction and Facility Modifications

ENVIRONMENT-MEDIA	PERMIT, APPROVAL, or REQUIREMENT	REGULATION(S)	REGULATORY AGENCY	RESTRICTION	ECM ref Sec
	UIC Permit/Registration	WAC 173-218	Ecology	Operation	8
Domestic Waste Water Disposal	Septic Systems < 14,500 gpd Capacity Design Approval	WAC 246-272	DOH	Construction	8
	Septic Systems > 14,500 gpd Capacity Design Approval	WAC 173-216; WAC 173-240	Ecology	Construction	8
	Pretreatment Permit	40 CFR 403; City Ordinance	City of Richland	Discharge to City Sewage Facility	8
	Operator Certification	WAC 173-230	Ecology	Operation	8
	Discharge Standards	WAC 173-221	Ecology	Discharge	8
Surface Waste Water Disposal	NPDES Permit	40 CFR 122	EPA	Operation	8
	Storm Water Discharge Under General Permit	57 FR No. 175	EPA	River Construction	8
	U.S. Dept of Army Permit	33 CFR 325	USACE	River Construction	8
	Section 10 Permit	33 CFR 320; 33 CFR 322	USACE	River Construction	8
	Nationwide Permits	33 CFR 330	USACE	River Construction	8
	Hydraulic Projects Permit	WAC 220-110	WA State Dept. of Fisheries	River Construction	8
	Shoreline Development Permit	WAC 173-14 to -20	Benton County	River/Island Construction	8
	Aquatic Lands Lease	WAC 332-30	DNR	Construction	8
	Hanford Reach Study Act Notification	PL 100-605	U.S. Park Service	Construction within 1/4 mi. of River	8
	Water Quality Modification Permit	WAC 173-201	Ecology	River Construction	8

## New Construction and Facility Modifications

ENVIRONMENT-MEDIA	PERMIT, APPROVAL, or REQUIREMENT	REGULATION(S)	REGULATORY AGENCY	RESTRICTION	ECM ref Sec
	Certification of NPDES Permit	40 CFR 121	Ecology	Operation	8
	Categorical Standards	40 CFR 405 to 471	EPA	Operation	8
Drinking Water Supply	Approval of Engr. Report, Plans & Specs.	WAC 246-290	DOH	Construction	8
	System ID. Number	WAC 246-290	DOH	Operation	8
	Operator Certification	WAC 246-292	DOH	Operation	8
Solid Waste	Solid Waste Handling Facility Permit	WAC 173-304	BFDHD	Construction	7
Dangerous Waste	Dangerous Waste Permit (RCRA Part A and B)	WAC 173-303; 40 CFR 264; 40 CFR 265; 40 CFR 270	Ecology	Construction of New Facilities or Expansion of Existing Facilities	7
UST	Tank Permit	WAC 173-360	Ecology	Operation	3
All Media	Floodplain, Wetland Assessment	10 CFR 1022	DOE	Any Surface Disturbance	4
	Cultural Resource Review	36 CFR 800	DOE	Any Surface Disturbance; Modification of Bldgs. Eligible for Listing on Historical Register	12
	Excavation Permit	36 CFR 800	DOE	Any Excavation	12
	Ecological Compliance Review	10 CFR 1021; 50 CFR 17; 50 CFR 402.6; DOE 5484.1	USFWS	Construction; Habitat Modification	12
	Preoperation Monitoring of Facilities, Sites, and Operations	DOE 5400.1	DOE	Operation	5
	Radiation Protection Standards	DOE 5400.5	DOE	Construction	2

New Construction and Facility Modifications

Table 9.2. Initial Determination of Areas of Environmental Concern

NOTE: NEPA documentation, Ecological Compliance Reviews, and Preoperational Surveys shall be requested in accordance with WHC-CM-7-5. Excavation Permits and Cultural Resource Review clearances shall be obtained in accordance with WHC-CM-8-7 and WHC-CM-7-5.

AIR	Applicability (Y/N)
<p><b>New Activity</b> - Is this (1) a new process, (2) newly installed equipment, <u>OR</u> (3) a "new" activity (ie, an activity that has NOT been conducted in the last two years at this location, using existing procedures and equipment); <u>AND</u> will (1), (2), or (3) above involve potential emissions of any regulated air pollutant (assuming no controls were in place)?</p>	
<p><b>New Source</b> - Will the planned activity provide emissions of a regulated air pollutant from a newly constructed point of emissions?</p>	
<p><b>Modification</b> - Will the activity involve a physical or operational change at an existing source of air emissions, which could result in an increased challenge to the emissions control system?</p>	
<p>Will the activity involve any open burning or training fires?</p>	
<p><b>WATER</b></p>	
<p>Will the activity involve a new or existing liquid discharge to the ground or to the river (e.g., process effluent, stormwater)?</p>	
<p>Will the activity modify an existing, approved wastewater treatment system?</p>	
<p>Will the activity modify an existing drinking water system or install a new one?</p>	
<p>Will the activity require any work over, in, or adjacent to a surface water body?</p>	
<p>Will the activity include installation of a new septic system or modification of an existing one?</p>	
<p><b>DANGEROUS WASTE</b></p>	
<p>Will the activity include treatment, storage, and/or disposal of dangerous waste?</p>	
<p>Will the activity generate or manage contaminated equipment, environmental media (e.g., dirt), or debris?</p>	
<p><b>MISCELLANEOUS</b></p>	
<p>Will the activity involve disposal of inert waste at a non-approved disposal site?</p>	
<p>Will the activity include construction of a solid waste facility?</p>	
<p>Will the activity install, remove, or modify an underground storage tank?</p>	
<p>Will the activity include demolition and/or renovation involving asbestos?</p>	
<p>Will the activity involve storage and/or use of hazardous chemicals?</p>	

Approval by ECO or designated representative

If any questions result in a response of "yes," an analysis of applicable environmental requirements shall be completed in accordance with Section 9 of WHC-CM-7-5. Terms used on this form are consistent with definitions provided in the applicable state and federal regulations.