10/12/4/92 JSD

ornl

ORNL/M-1929/R4

Environmental Regulatory Update Table

September/October 1992

DOE Office of
Environmental
Guidance (EH-23)

This report has been reproduced directly from the best available copy.

Available to DOE and DOE contractors from the Office of Scientific and Technical Information, P.O. Box 62, Oak Ridge, TN 37831; prices available from (615) 576-8401, FTS 626-8401.

Available to the public from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Rd., Springfield, VA 22161.

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

ENVIRONMENTAL SCIENCES DIVISION
ENVIRONMENTAL REGULATORY UPDATE TABLE
SEPTEMBER/OCTOBER 1992

L. M. Houlberg*
G. T. Hawkins*
E. B. Lewis*
M. S. Salk

*Health & Safety Research Division

Date Published - November 1992

Prepared for the
U.S. Department of Energy
Office of Environmental Guidance
Lois Thompson
Technical Project Manager
(B/A No. HA 01 15 00 0; EHHA002)

Prepared by the
ENVIRONMENTAL SCIENCES DIVISION
OAK RIDGE NATIONAL LABORATORY
Oak Ridge, Tennessee 37831-6285
managed by
MARTIN MARIETTA ENERGY SYSTEMS, INC.
for the
U.S. DEPARTMENT OF ENERGY
under contract DE-AC05-84OR21400

MASTER

rb

Date _____

CHANGES IN REGULATORY UPDATE TABLE DISTRIBUTION

Please modify the distribution for the Environmental Regulatory Update Table by (check one):

☐ Adding:

☐ Deleting:

☐ Correcting the address as indicated:

☐ Removing _____ and adding:

Name: _____

Address: _____

Phone: _____

I am a (check one): ☐ DOE employee, ☐ DOE contractor/subcontractor employee,
☐ non-DOE government employee, ☐ non-DOE, non-government employee

Please send this form to:

Linda Houlberg
Oak Ridge National Laboratory
P. O. Box 2008
Building 2001, Mail Stop 6050
Oak Ridge, TN 37831-6050

Or call her at: (615) 574-7763

Or FAX message to: (615) 574-9888

Environmental Regulatory Update

This report contains a bi-monthly update of environmental regulatory activity that is of interest to the Department of Energy. It is provided to DOE operations and contractor staff to assist and support environmental management programs by tracking regulatory developments. Any proposed regulation that raises significant issues for any DOE operation should be reported to the Office of Environmental Guidance (EH-23) as soon as possible so that the Department can make its concerns known to the appropriate regulatory agency. Items of particular interest to EH-23 are indicated by a shading of the RU#.

Any questions or comments about any aspects of the Update Table should be directed to Lois Thompson, Air, Water, and Radiation Protection Division, Office of Environmental Guidance, U.S. Department of Energy (EH-23), 202-586-9581.

ABSTRACT

The Environmental Regulatory Update Table provides information on regulatory initiatives of interest to DOE operations and contractor staff with environmental management responsibilities. The table is updated bi-monthly with information from the Federal Register and other sources, including direct contact with regulatory agencies. Each table entry provides a chronological record of the rulemaking process for that initiative with an abstract and a projection of further action.

U.S. DEPARTMENT OF ENERGY

ASSISTANT SECRETARY FOR ENVIRONMENT, SAFETY AND HEALTH
Office of Environmental Guidance

ENVIRONMENTAL REGULATORY UPDATE

SEPTEMBER/OCTOBER 1992

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992 UPDATE

Table of Contents

	Page
Regulatory Highlights	xiii
Regulatory Update Table	1
Resource Conservation and Recovery Act (RCRA) (RU # 840---)*	1
Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (RU # 180---)	13
Superfund Amendments and Reauthorization Act (SARA) (RU # 190---)	17
Pollution Prevention Act (PPA) (RU # 195---)	19
Safe Drinking Water Act (SDWA) (RU # 880---)	20
Clean Water Act (CWA) (RU # 140---)	23
Oil Pollution Act of 1990 (RU # 145---)	29
Clean Air Act (RU # 120---)	31
Nuclear Waste Policy Act (RU # 700---)	41
Low-Level Radioactive Waste (LLW) Policy Amendments Act (RU # 740---)	42
Atomic Energy Act (RU # 100---)	44
Uranium Mill Tailings Radiation Control Act (RU # 930---)	52
Toxic Substances Control Act (TSCA) (RU # 920---)	53
Hazardous Materials Transportation Act (RU # 400---)	55
Occupational Safety and Health Act (OSHA) (RU # 780---)	61
Endangered Species Act (RU # 200---)	66
Marine Protection Research and Sanctuaries Act (RU # 460---)	67
National Environmental Policy Act (RU # 480---)	67
Archeological Resources Protection Act (RU # 090---)	67
Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) (RU # 300---)	68
Federal Mine Safety and Health Act (RU # 330---)	69
Historic Sites Act of 1935 (RU # 410---)	70
Biotechnology (RU # 110---)	70
Pacific Northwest Electric Power & Conservation (RU # 810---)	70
Coastal Zone Management Act (RU # 160---)	71
Other (RU # 805---)	71
IRIS Table Update	73
Index to RU Numbers by CFR Citation	91

*RU numbers are identifiers that are assigned to each regulatory initiative for tracking purposes. The first three digits are coded to the statute, and the last three digits are specific to individual initiatives. The update table is first organized by statutes as shown above and then by RU numbers arranged sequentially. An index is provided at the end of the table to relate CFR citations to RU numbers.

Regulatory Highlights - September/October, 1992

1. Final NPDES General Permits for Storm Water Discharges Associated With Industrial Activity - Notice

Under section 402(p) of the Clean Water Act (CWA), EPA issues two notices to finalize National Pollutant Discharge Elimination System (NPDES) general permits (draft: 8-16-91) for storm water discharges associated with industrial activity in several states, territories, and on Indian lands and federal facilities in certain states. One of the notices (57 FR 41236) outlines the general permits applicable to storm water discharges associated with industrial activity other than construction activities in 11 states (AK, AZ, FL, ID, LA, ME, NH, NM, OK, SD, and TX); the territories of Johnston Atoll and Midway and Wake Islands; on Indian lands in 17 states (AK, AZ, CA, CO, FL, ID, ME, MA, MS, MT, NH, NV, NC, ND, UT, WA, and WY); from federal facilities in Colorado and Washington; and from federal facilities and Indian lands in 4 states (LA, NM, OK, and TX). The other notice (57 FR 41176) contains the final general permits for storm water discharges associated with industrial activity from construction sites in almost the same states, territories, and other areas and facilities covered under the permits of the aforementioned notice. The only differences are that Florida is not covered by a permit in this notice and Puerto Rico is an additional territory that is covered. The permits will authorize existing and new storm water discharges which meet the criteria for coverage. The permits in both notices require affected dischargers to submit a Notice of Intent (NOI) to be covered by a general permit. Unless notified by EPA to the contrary, submission of a NOI will authorize storm water discharges under the conditions of the permit. Although the permits establish requirements for the content of NOIs, a copy of EPA's NOI form and associated instructions is included in Appendix C of each notice. The deadline for submitting a NOI was 10-1-92 for existing dischargers. New dischargers (i.e., those commencing industrial or construction activity after 10-1-92) must submit a NOI at least 2 days prior to commencing the new activity. The main conditions of the permits for both notices include: (1) requirements to develop and implement a storm water pollution prevention plan, (2) special conditions such as a prohibition on non-storm water discharges, and (3) site inspection requirements. Appendix B of each notice contains the regulatory language of the general permits. For each notice the majority of the language (i.e., conditions and requirements) is the same for all permits. The exception is the last section of Appendix B which contains conditions which only apply in the state indicated. These general permits became effective on September 9, 1992. (9-9-92, 57 FR 41176 & 41236, RU# 140-085.03)

2. NPDES: Request for Comment on Alternative Approaches for Phase II Storm Water Program - Notice

EPA issues a notice requesting information and public input on Phase II of the national storm water program required by section 402(p)(6) of the CWA. Phase II of the storm water program will potentially cover all storm water discharges not regulated under the

Phase I program. (Phase I included storm water discharges (1) permitted before 2-4-87, (2) associated with industrial activity, (3) from a municipal separate storm sewer system serving a population of 100,000 or more, and (4) determined to contribute to a violation of a water quality standard or to be a significant contributor of pollutants to the waters of the United States.) The notice offers various options for resolving three basic issues in implementing Phase II of the storm water program. The first issue of concern is "targeting," or determining what storm water discharges not presently covered under Phase I should be identified as needing controls. Second, EPA will seek to determine the most effective control strategies to use in assuring pollutant reductions and water quality improvement. The third significant issue is compliance deadlines or time frames for the Phase II program. EPA seeks comments on the options presented in the notice for addressing these main issues and on other alternatives not mentioned in the notice. (9-9-92, 57 FR 41344, RU# 140-085.04)

3. Hazardous Waste Management System: Land Disposal Restrictions - Approval of Interim Final Hazardous Soil Case-By-Case Capacity Variance

Under RCRA EPA grants a national capacity variance for those hazardous soils whose best demonstrated available technology (BDAT) is incineration, retorting, or vitrification, as well as for soils contaminated with radioactive mixed waste. Before an earlier variance expired on May 8, 1992, EPA received information from generators of hazardous soils and trade associations indicating that there would not be sufficient treatment capacity for hazardous soils when that variance expired. EPA approved an interim final case-by-case extension of the LDR until May 8, 1993, to all persons handling RCRA "Third Third" hazardous soils whose BDAT is either incineration, retorting, or vitrification and those handling soils contaminated with radioactive mixed waste. EPA is taking this regulatory action because of the lack of treatment, recovery, and protective disposal capacity for hazardous soil; the need for promulgation of revised treatment standards before such capacity can be constructed; and EPA's conclusion that treatment capacity meeting those standards is limited. No further application will be required to qualify for the extension. However, EPA is requiring generators to meet certain recordkeeping and other requirements. By December 21, 1992, or when hazardous soil is generated, on-site records must include the name, mailing address, location, and EPA identification number of the facility; a description of the hazardous soil waste stream; waste generation rates (m^3/yr) and estimated inventories; information on storage, and information on the use of a surface impoundment or landfill. Prior to May 8, 1993, EPA will evaluate available capacity, current capacity needs, and the status of the revised treatment standards and determine if there is a need to extend the variance until May 1994. (10-20-92, 57 FR 47772, RU# 840-250.04)

4. Hazardous Waste Management System: Definition of Hazardous Waste, "Mixture" and "Derived-From" Rules - Final Rule and Notice of Withdrawal of Proposed Rule

EPA removes the April 28, 1993, expiration date from its reinstatement of the RCRA "mixture" and "derived-from" rules published on March 3, 1992. This action is in response to the large number of comments received on EPA's proposed modification of these rules (NPRMs: 3-3-92 & 5-20-92) and the need to evaluate all of the technical information provided by the public. The "mixture" and "derived-from" rules address situations where listed hazardous waste which is mixed with other wastes or otherwise managed after treatment can be determined to no longer be hazardous. The March 3, 1992, interim final rule was published in response to a December 8, 1991 decision by a United States Court of Appeals which vacated the "mixture" and "derived-from" rules due to notice and comment deficiencies in its original promulgation. Concurrently, EPA has withdrawn the 5-20-92 proposed regulation to modify the hazardous waste identification rules (HWIR) under RCRA. The proposed HWIR presented a range of alternatives for identifying solid wastes that warrant regulation as hazardous waste under RCRA, including proposal of a Concentration Based Exemption Criteria (CBEC) and an Expanded Characteristics Option (ECHO). EPA intends to propose and promulgate revisions to the "mixture" and "derived-from" rules within twelve to twenty-four months. The agency will prepare an appropriate regulatory impact analysis as part of this rulemaking. (10-30-92, 57 FR 49278 & 49280, RU# 840-310.00)

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
RESOURCE CONSERVATION AND RECOVERY ACT				
	Oil Pollution Prevention -- RU# 145-002			
	Pesticide Storage -- RU# 300-003			
	Test Procedures Under CWA and RCRA for the Analysis of Pollutants - Test Methods Using CFCs -- RU# 140-116			
	Management of Used Oil			
	40 CFR 260	NPRM	EPA determines not to list used oil destined for disposal as a hazardous waste under RCRA and exempts used oil filters from the definition of hazardous wastes.	Effective 6/19/92.
	40 CFR 261	50 FR 49258		
	40 CFR 266	11/29/85		
	40 CFR 271	NOA		
	40 CFR 279	51 FR 8206		
		3/10/86		
		Supplemental		
		NPRM		
		56 FR 48000		
		9/23/91		
		Final rule		
		57 FR 21524		
		5/20/92		
		Corrections		
		57 FR 29220		
		7/1/92		
		Final rule		
		57 FR 41566		
		9/10/92	EPA determines not to list recycled used oils as hazardous wastes and issues standards for the management of used oil under RCRA Sect. 3014.	Effective 3/8/93.
	Containerized Liquids in Landfills			
	40 CFR 260	NPRM	EPA proposes to prohibit disposal of free liquids and absorbents that biodegrade and release liquids when compressed. These rules will not apply to owners or operators of landfills in which only PCB chemical waste regulated under 40 CFR 761 are disposed. PCBs mixed with a RCRA hazardous waste must comply with all requirements under both RCRA and TSCA.	Final rule 11/92.
	40 CFR 264	51 FR 46824		
	40 CFR 265	12/24/86		
	40 CFR 271	NOA		
		52 FR 23695		
		6/24/87		
		NOA		
		56 FR 55646		
		10/29/91		
		NOA		
		57 FR 18853		
		5/1/92		

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
34P-051.00	Solid Waste Disposal Facility Criteria 40 CFR 257 40 CFR 258	NPRM 53 FR 33314 8/30/88 Final rule 56 FR 50978 10/9/91 Notice 57 FR 7584 3/3/92 Technical corrections 57 FR 28626 6/26/92	EPA amends 40 CFR 257 by including information requirements for certain solid waste disposal facilities and excluding municipal solid waste landfills (MSULFs) from Part 257 and adds a new Part 258 to spell out specific requirements for MSULFs.	Effective 10/9/93 except Subpart G of Part 258 is effective 4/9/94.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*840-056.00	Burning of Hazardous Waste in Boilers and Industrial Furnaces 40 CFR 260 40 CFR 261 40 CFR 264 40 CFR 265 40 CFR 266 40 CFR 270 40 CFR 271	NPRM 52 FR 16982 5/6/87 Corrections 52 FR 18043 5/13/87 Corrections 52 FR 25612 7/8/87 Supplement to NPRM 54 FR 43718 10/26/89 Technical corrections 55 FR 17862 4/27/90 Final rule 56 FR 7134 2/21/91 Technical amendment 56 FR 32688 7/17/91 Technical amendment 56 FR 42504 8/27/91 Administrative stay 56 FR 43874 9/5/91 Notice 56 FR 47959 9/23/91 Technical amendment; corrections 57 FR 38558 8/25/92 Clarification; corrections 57 FR 44999 9/30/92	EPA establishes emission standards for boilers and industrial furnaces that burn hazardous waste fuels in order to control emissions of toxic organic compounds, toxic metals, hydrogen chloride, chlorine gas, and particulate matter. In addition, this rule subjects owners and operators of these devices to the general facility standards applicable to hazardous waste TSD facilities and subjects hazardous waste storage units at regulated burner facilities to part 264 permit standards. Finally, EPA promulgates a definition of sludge dryer and revises the definition of incinerator to explicitly exclude sludge dryers (as proposed 7/18/90, 55 FR 29230). EPA also takes final action on two pending petitions by designating halogen acid furnaces as industrial furnaces and classifying coke and coal tar fuels produced by recycling coal tar decanter sludge as products rather than solid waste.	Final rule of 2/21/91 and technical amendment of 7/17/91 effective 8/21/91. Technical amendment of 8/25/92 of final rule remains in effect until RU# 840-268 final rule becomes effective 2/18/93.
			EPA announces an administrative stay of the 2/21/91 final rule as it applies to coke ovens burning hazardous waste from the coke by-products recovery process. The stay remains in effect until the rulemaking initiative to exclude such wastes from subtitle C jurisdiction when recycled is promulgated (see RU# 840-268.00).	

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*840-107.00	Location Standards for TSD Facilities 40 CFR 261 40 CFR 264 40 CFR 265 40 CFR 270	Notice 55 FR 19981 5/14/90 Planned NPRM 57 FR 17419 4/27/92	EPA plans to propose additional standards for location of hazardous waste treatment, storage, and disposal facilities, in particular, in a variety of sensitive environments. Floodplain and seismic restrictions already existing at 40 CFR 264.18 and 265.18 will be amended based on new data and information.	<u>NPRM 1/93. Final rule 4/94.</u>
840-131.00	Hazardous Waste TSD Facilities - Financial Assurance for Corrective Action 40 CFR 264 40 CFR 270 40 CFR 271	NPRM 51 FR 37854 10/24/86 Notice 54 FR 40728 10/3/89 Notice 55 FR 19981 5/14/90	EPA proposes to amend the financial responsibility and permitting standards for TSD owners and operators to require them to demonstrate financial assurance for completion of any required corrective action for a release to any medium from any solid waste management unit. Acceptable mechanisms include a trust fund, surety bond guaranteeing performance, letter of credit, financial test, or corporate guarantee.	On hold indefinitely.
*840-133.00	Solid Waste Management Units - Corrective Action Subpart S 40 CFR 264 40 CFR 265 40 CFR 270 40 CFR 271	NPRM 55 FR 30798 7/27/90	EPA proposes procedures and technical requirements for implementing corrective action for solid waste management units (SMUs) at facilities seeking a permit under Sect. 3004(u) of RCRA. The proposal would create a new Subpart S to define requirements for conducting remedial investigations, evaluating potential remedies, and selecting and implementing remedies at RCRA facilities. It also proposes to amend permit requirements, make conforming changes to facility closure information requirements, and establish standards for states to be authorized to administer corrective action requirements.	Final rule for corrective action management units and temporary units 12/92; final rule on rest of Subpart S 12/93.
		NOA 57 FR 48195 10/22/92	EPA announces the availability of preliminary information regarding specific alternative regulatory approaches for corrective action management units (CAMUs) developed in support of the final rules for CAMUs.	<u>Comments by 11/23/92.</u>
*840-142.01	Air Emission Standards for VOCs from Tanks and Impoundments at TSD Facilities - Phase II 40 CFR 264 40 CFR 265	NPRM 56 FR 33490 7/22/91	EPA proposes air emission standards for emissions of volatile organics from tanks and impoundments at hazardous waste TSD facilities. The standards would require that organic emission controls be installed and operated on tanks, surface impoundments, containers, and certain miscellaneous units if any hazardous waste having a volatile organic concentration equal to or greater than 500 ppm by weight is placed in the unit.	<u>Final rule 6/93.</u>
		NOA 57 FR 43171 9/18/92	EPA announces the availability of additional data in support of its 7/22/91 proposed rule on organic air emission standards.	

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
* Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*840-146.00	Treatment and Disposal of Contaminated Debris (LDRs - Phase I) 40 CFR 148 40 CFR 260 40 CFR 261 40 CFR 262 40 CFR 264 40 CFR 265 40 CFR 268 40 CFR 270 40 CFR 271	ANPRM 56 FR 24444 5/30/91 NPRM 57 FR 958 1/9/92 Notice 57 FR 20766 5/15/92 Final rule 57 FR 37194 8/18/92 Correction 57 FR 39275 8/28/92 Correction 57 FR 41173 9/9/92	EPA establishes treatment standards under the RCRA LDR program pursuant to a proposed consent decree and finalizes revised treatment standards for other hazardous debris.	Final rule effective 6/30/92 except: LDRs effective 11/9/92, standards for generators, owners and operators effective 2/18/93. Generic extension of LDR effective date to 5/8/93 for certain debris is still in effect.
*840-151.00	Compliance Monitoring and Enforcement - State Programs 40 CFR 271.15 40 CFR 271.16	Planned NPRM 57 FR 17420 4/27/92	The regulations for state authorization requirements for compliance monitoring and enforcement will be revised to reflect HSWA. EPA will consider other changes, such as the requirement for states to have administrative penalty authority.	NPRM undetermined; caught up in moratorium.
*840-171.00	Groundwater Monitoring at Hazardous Waste Facilities - Subpart F 40 CFR 260 40 CFR 264 40 CFR 270	NPRM 53 FR 28160 7/26/88 Regulatory Agenda 57 FR 17424 4/27/92	EPA proposes to amend Subpart F groundwater monitoring regulations to foster the early detection of leaks and to better tailor the current groundwater monitoring regulations to site-specific conditions.	Final rule 12/92; at OMB.
*840-173.00	Solid Waste Test Methods (Manual SW-846 Third Edition - Update I) 40 CFR 260 40 CFR 261 40 CFR 262 40 CFR 264 40 CFR 265 40 CFR 268 40 CFR 270	NPRM - Update I 54 FR 3212 1/23/89 NOA 55 FR 4440 2/8/90 Regulatory Agenda 57 FR 17422 4/27/92	EPA proposes to update the Third Edition of SW-846, incorporate it into the RCRA regulations, and mandate minimum QC procedures for all RCRA testing. EPA proposes a number of technical modifications and/or clarifications to the Third Edition of SW-846 and the inclusion of specific QC procedures in SW-846 which are described in the "Report on Minimum Criteria to Assure Data Quality." The Agency is also considering deleting appendices III and X to 40 CFR 261.	Final rule 12/92.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.

* Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*840-173.01	Solid Waste Test Methods (Manual SW-846 Third Edition - Update II 40 CFR 260 40 CFR 261 40 CFR 262 40 CFR 264 40 CFR 265 40 CFR 268 40 CFR 270	Planned NPRM - Update II 57 FR 17418 4/27/92	EPA will propose to revise certain test methods and add other new test methods that are approved or required under RCRA. These new and revised methods are found in Update II to the Third Edition of SW-846.	<u>NPRM 12/92. Final rule 12/93.</u>
840-175.00	Releases to Groundwater (Subpart F) - Corrective Action 40 CFR 264 40 CFR 270	Planned NPRM 57 FR 17419 4/27/92	These regulations will amend the technical and procedural requirements for conducting corrective action to clean up significant releases to groundwater from regulated hazardous waste units at operating, closed, or closing RCRA facilities and the requirements for implementing remedial action, remedy selection, and corrective measures.	NPRM placed on hold, pending action on RU# 840-133 by 1/93.
840-176.00	Groundwater Monitoring - Hazardous Constituents 40 CFR 264 40 CFR 270	Planned NPRM 57 FR 17420 4/27/92	EPA will propose revisions to a list of hazardous constituents, Appendix IX of 40 CFR 264, for use in groundwater monitoring. This amendment would also create a new list for the first part (Detection Monitoring) of the groundwater monitoring program.	NPRM 1/93.
*840-180.00	State Hazardous Waste Management Program - Alabama 40 CFR 271	Immediate final rule 57 FR 47996 10/21/92	EPA grants final authorization to Alabama for revisions to its state hazardous waste management program, subject to public review and comment.	<u>Comments by 11/20/92. Final rule effective 12/21/92.</u>
*840-185.00	USTs Containing Hazardous Substances - Financial Responsibility 40 CFR 280	ANPRM 53 FR 3818 2/9/88 Planned NPRM 57 FR 17421 4/27/92	EPA will propose to establish financial responsibility requirements for owners and operators of underground storage tanks (UST) containing hazardous substances. An exemption is to be proposed for federally owned tanks.	<u>NPRM 9/93. Final rule 9/94.</u>
840-193.00	No-Migration Variance for Restricted Hazardous Waste Land Disposal 40 CFR 268 40 CFR 271	Notice 56 FR 46431 9/12/91 NPRM; NOA 57 FR 35940 8/11/92	EPA proposes its interpretation of the "no migration" variance to the land disposal restrictions for untreated hazardous wastes. Additionally, the Agency proposes organic air emission standards for facilities granted a "no migration" variance to dispose of wastes not meeting BODAT treatment standards and announces the availability of a draft guidance manual for petitioners seeking the variance.	Final rule 12/93.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
* Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*840-213.01	Hazardous Waste Manifest System 40 CFR Chapter 1	Notice 57 FR 44147 9/24/92	EPA has established a hazardous waste manifest rulemaking committee, and is meeting to discuss organizational matters regarding the negotiation of this rule.	
*840-219.00	State Hazardous Waste Management Program - Kentucky 40 CFR 271	Immediate final rule 57 FR 49140 10/30/92	EPA grants final authorization to Kentucky for revisions to its state hazardous waste management program, subject to public review and comment.	Comments by 11/30/92. Final rule effective 11/30/92.
*840-223.00	Use of Groundwater Data in Delisting Petitions - Subpart C 40 CFR 260.22	NPRM 54 FR 41930 10/12/89 Regulatory Agenda 57 FR 17423 4/27/92	EPA proposes to require those who submit delisting petitions for hazardous wastes to provide groundwater monitoring data as part of their petition.	Final rule 1/93; has not gone to OMB yet.
*840-230.01	USTs Containing Petroleum - Financial Responsibility Requirements 40 CFR 280 40 CFR 281	NPRM 55 FR 24692 6/18/90	EPA proposes to add to the 10/26/88 final rule four alternative mechanisms for use by local governments to demonstrate financial responsibility for taking corrective action and compensating third parties for bodily injury and property damage caused by sudden and nonsudden accidental underground storage tank releases.	Final rule 3/93.
*840-236.00	State Hazardous Waste Management Program - Texas 40 CFR 271	Immediate final rule 57 FR 45719 10/5/92	EPA grants final authorization to Texas for revisions to its state hazardous waste management program, subject to public review and comment.	Effective 12/4/92.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*840-244.00	Standards for the Tracking and Management of Medical Waste 40 CFR 259	Interim final rule 54 FR 12326 3/24/89 Notice: final rule amendments 54 FR 24310 6/6/89 NOA 55 FR 1770 1/18/90 Corrections 55 FR 27228 7/2/90 NOA 55 FR 28096 7/9/90 NOA 55 FR 43219 10/26/90 NOA 56 FR 2178 1/22/91 Regulatory Agenda 56 FR 54064 10/21/91	EPA publishes an interim final rule implementing the Medical Waste Tracking Act (MWTA) demonstration program. The program sets forth segregation, packaging, labeling, tracking, transportation, and recordkeeping requirements of medical waste generated in the covered states, and lists the wastes to be covered by the program. States participating in the program include NY, NJ, CT, RI, and Puerto Rico.	Interim final rule effective 6/22/89. Amendments effective 6/6/89. Tracking regulations effective 6/22/89 in NY, NJ, CT, 7/24/89 in RI and Puerto Rico. Rulemaking initiative withdrawn 9/30/91. Final report to Congress 12/92.
*840-248.00	Revision of Subtitle C Financial Test Criteria 40 CFR 264 40 CFR 265	MPRM 56 FR 30201 7/1/91 Final rule 57 FR 42832 9/16/92	EPA revises the financial test criteria for closure and post-closure care, the claims reporting provision, and the provisions for obtaining a letter of credit. EPA will issue another final rule later addressing corporate third-party liability coverage and post-closure deed requirements.	Final rule of 9/16/92 effective immediately. Action date for final rule on corporate financial test criteria undetermined.
*840-250.01	DOE Case-by-Case Extension on Mixed Waste Storage - Petition. 40 CFR 268	Notice of proposed decision 57 FR 22024 5/26/92	EPA proposes to find that DOE has made all but one of the demonstrations required in its application, under RCRA rules in 40 CFR 268.5, for a one-year case-by-case extension of the 5/8/92 effective date of the LDRs applicable to certain mixed wastes generated or stored at 31 DOE facilities.	Date for final action on decision uncertain; maybe 1/93.

(a) MPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULE/ ACTION
*840-250.02	EPA/NRC Guidance on Testing Mixed Radioactive and Hazardous Waste	NOA 57 FR 10508 3/26/92	MRC and EPA jointly issue a proposed guidance document on the testing of mixed radioactive and hazardous waste to assist mixed waste generators in identifying and performing the testing required under RCRA Subtitle C and to ensure that employee radiation exposures are ALARA.	<u>Final guidance 1/93.</u>
*840-250.03	Technical Amendment to Third Third LDRs - Stay of Application 40 CFR 148 40 CFR 264 40 CFR 265 40 CFR 268	Technical amendments 57 FR 8086 3/6/92 Stay of technical amendment 57 FR 31962 7/20/92	EPA stays the 3/6/92 technical amendment of the 6/1/90 third third LDR final rule as it applies to deep wells receiving prohibited characteristic wastes and newly identified or listed unprohibited wastes.	Technical amendment of 3/6/92 stayed as of 7/20/92. Final action <u>undetermined.</u>
*840-250.04	Third Third LDRs - National Capacity Variance for Mixed Wastes and Certain Hazardous Soils 40 CFR 268	Interim final variance 57 FR 47772 10/20/92	In its final rule of 6/1/90, EPA set treatment standards and LDRs for the third third wastes and granted a national capacity variance for mixed wastes and certain hazardous soils until 5/8/92. EPA now approves an interim final case-by-case extension to 5/8/93 of that national capacity variance for hazardous soils whose BDAT was incineration, retorting, or vitrification and for radioactive mixed wastes. The Administrator may renew this extension to allow continued land disposal until 5/8/94.	<u>Comments by 11/19/92. Capacity variance extended to 5/8/93.</u>
*840-251.00	Hazardous Waste Sump Requirements 40 CFR 260 40 CFR 264 40 CFR 265	Planned NPRM 57 FR 17420 4/27/92	EPA will propose to amend several hazardous waste tank system requirements as applied to existing sumps that are situated inside buildings and constructed as an integral part of the building's floor or foundation. Boeing Company is petitioning EPA to regulate these sumps independently of other hazardous waste storage/treatment tank systems because of differences in design, construction, and use.	<u>NPRM 12/92.</u>
*840-265.00	State Hazardous Waste Management Program - Rhode Island 40 CFR 241	Immediate final rule 57 FR 45574 10/2/92	EPA grants final authorization to Rhode Island for revisions to its state hazardous waste management program, subject to public review and comments.	<u>Final authorization effective 12/1/92.</u>

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.

* Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RJ NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*840-267.00	Identification and Listing of Hazardous Wastes from Chlorotoluene Production 40 CFR 261 40 CFR 271 40 CFR 302	NPRM 56 FR 51592 10/11/91 Final rule 57 FR 47376 10/15/92	EPA lists chlorinated toluenes production wastes as hazardous and designates these wastes as CERCLA hazardous substances with appropriate RQs.	<u>Effective 4/15/93.</u>
840-268.00	Identification and Listing of Hazardous Wastes from Coke By-Product Industries 40 CFR 261 40 CFR 271 40 CFR 302	NPRM 56 FR 35758 7/26/91 Final rule 57 FR 37284 8/18/92	EPA (1) amends the regulations for hazardous waste listing by adding seven additional wastes from the coke by-products industry to 40 CFR 261.32, (2) amends appendix VII of part 261 to add the constituents for which these wastes are being listed, (3) designates these wastes as hazardous substances under CERCLA, and (4) adjusts the RQs applicable to these wastes. In addition EPA finalizes the determination not to list as hazardous wastewaters from coking and tar refining operations.	<u>Effective 2/18/93.</u>
*840-275.00	State Hazardous Waste Management Program - New Mexico 40 CFR 271	Immediate final rule 57 FR 45717 10/5/92	EPA grants final authorization to New Mexico for revisions to its state hazardous waste management program, subject to public review and comment.	<u>Effective 12/4/92.</u>
*840-277.00	State Hazardous Waste Management Program - Arkansas 40 CFR 271	Immediate final rule 57 FR 45721 10/5/92	EPA grants final authorization to Arkansas for revisions, submitted 6/3/92, to its state hazardous waste management program, subject to public review and comment.	<u>Effective 12/4/92.</u>
		Immediate final rule 57 FR 45722 10/5/92	EPA grants final authorization to Arkansas for revisions, submitted 6/5/92, to its state hazardous waste management program, subject to public review and comment.	<u>Effective 12/4/92.</u>
840-286.00	Permit Modifications to Hazardous Waste Management Facilities to Correct Omitted Requirements 40 CFR 270.41	Planned NPRM 57 FR 17418 4/27/92	Amendment will allow EPA to modify a permit to correct an inadvertent omission of an applicable RCRA requirement which is in effect prior to the date of permit issuance. The permit correction would follow the modification procedures in 40 CFR 124. Citizens would be able to request such a correction using existing procedures in 40 CFR 124.5.	NPRM 3/93. Final rule 6/94.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RJ# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*840-287.00	Adequacy Determinations for State/Tribal Solid Waste Programs 40 CFR 239	Planned NPRM 57 FR 17421 4/27/92	This regulation will describe procedures EPA will use to make determinations of adequacy for state/tribal solid waste permitting programs, as required by Sect. 4005 of RCRA.	<u>NPRM 1/93; at OMB.</u>
*840-294.00	Amendments to Biennial Reporting Requirements 40 CFR 262.41 40 CFR 264.75 40 CFR 271.10	Planned NPRM 57 FR 17419 4/27/92	EPA plans an amendment to require states to modify their hazardous waste reporting systems to collect additional data elements from their large quantity generators and TSD facilities. Such data will help EPA to better understand the demographics of hazardous waste generation and management.	<u>NPRM 11/92. Final rule 11/93.</u>
840-295.00	Treatment of Indian Tribes as States Under RCRA Subtitle C 40 CFR 271	Planned NPRM 57 FR 17420 4/27/92	EPA will propose to treat Indian tribes as states for purposes of the Subtitle C program. This regulation will establish the definition of an Indian tribe and the criteria it must meet to be treated as a state for authorization purposes.	<u>NPRM 3/93. Final rule 3/94.</u>
*840-300.00	Hazard Waste Surface Impoundment Retrofitting - Capacity Variance 40 CFR 268	NPRM 57 FR 4170 2/4/92 Regulatory Agenda 57 FR 17425 4/27/92	EPA proposes a rule that will allow four years to retrofit surface impoundments for those wastes granted a national capacity variance unless treatment capacity becomes available sooner.	<u>Final rule incorporated into final rule for hazardous debris published 8/18/92 (see RU# 840-146).</u>
*840-305.00	Treatment and Disposal of Hazardous Soil and TC Organic Wastes 40 CFR 268	ANPRM 56 FR 55160 10/24/91 Planned NPRM 57 FR 17417 4/27/92	EPA will propose treatment standards that must be met before contaminated hazardous soil or organic toxicity characteristic (TC) wastes may be disposed of on land.	<u>NPRM 4/93. Final rule 10/93.</u>
*840-307.00	Hazardous Waste Recycling - Batteries, Closed Loop, Use Constituting Disposal 40 CFR 261 40 CFR 266	Planned NPRM 57 FR 17418 4/27/92	EPA will propose to modify the regulatory program for hazardous waste recycling to address activities such as use constituting disposal, battery recycling, closed loop recycling, and management of recalled pesticides.	<u>NPRM on battery recycling and recalled pesticides 12/92. Final rule 12/93. NPRM on "use constituting disposal" put on delayed track.</u>

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.

* Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*840-310.00	Hazardous Waste Identification Rule (Mixture and Derived From) 40 CFR 260 40 CFR 261 40 CFR 262 40 CFR 264 40 CFR 268	Interim final rule 57 FR 7628 3/3/92 NPRM 57 FR 7636 3/3/92 NPRM 57 FR 21450 5/20/92 Technical corrections 57 FR 23062 6/1/92 Final rule 57 FR 49278 10/30/92 Withdrawal of NPRM 57 FR 49280 10/30/92	EPA removes the 4/28/93 expiration date from its reinstatement of the "mixture" and "derived from" rules published 3/3/92 to assure continuity of the existing national hazardous waste program while EPA determines the most appropriate approach for modification of the rules. in a separate action, EPA also withdraws the 5/20/92 NPRM for the CBEC and ECHO HWIR because of a broad range of policy and technical issues raised by affected parties. EPA will address these issues in future proposed rules in the next 12-24 months.	Interim final rule effective 2/18/92. Corrections effective 6/1/92. Final rule and NPRM withdrawal of 10/30/92 effective 10/30/92.
*840-313.00	Land Disposal Restrictions for Newly Identified Wastes - Phase III 40 CFR 268	ANPRM 57 FR 55160 10/24/91 Planned NPRM 57 FR 17417 4/27/92	EPA will propose BDAT and LDRs for wood preserving waste, aluminum potliners, and characteristically hazardous mineral processing wastes.	NPRM 3/93. Final rule 3/94.
*840-315.00	Guidance on Storage of Low-Level Radioactive Mixed Waste	Notice 57 FR 48051 10/21/92	EPA and MRC plan to issue a joint guidance document on the storage of mixed radioactive and hazardous waste to assist individuals currently storing mixed waste to meet the regulatory requirements of AEA and RCRA, and have scheduled a meeting to receive input on issues to be addressed in the document.	Meeting was held 11/12/92 to receive comments. Proposed guidance to be issued 12/92.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT				
	Non-APA Consolidated Rules of Practice for Administrative Assessment of Civil Penalties Under CERCLA, SARA, SDWA, and CMA -- RU# 190-059			
	Identification and Listing of Hazardous Wastes from Coke By-Product Industries -- RU# 840-268			
	List of Substances and Threshold Quantities -- RU# 120-183			
	Identification and Listing of Hazardous Wastes from Chlorotoluene Production -- RU# 840-267			
*180-025.00	Natural Resource Damage Assessments - Type B 43 CFR 11	ANPRM 54 FR 39016 9/22/89 NPRM 56 FR 19752 4/29/91 Regulatory Agenda 57 FR 16860 4/27/92	To comply with a court decision, DOI proposes revisions to the type B natural resource damage assessment rule. The proposed rule provides for a unified process for trustees to develop claims for both (1) the costs of restoration, rehabilitation, replacement, and/or acquisition of equivalent resources and (2) reliably calculated lost values of the injured resources, with no required hierarchy of valuation methodologies for determining those values.	Action 12/92; may issue final rule or may reopen comment period. If reopen for comments, then will issue final rule 3/93.
*180-031.00	Response Claims Procedures 40 CFR 307	NPRM 54 FR 37892 9/13/89 Corrections 54 FR 46423 11/3/89 Regulatory Agenda 57 FR 17456 4/27/92	EPA proposes to establish procedures for (1) filing, evaluating, and resolving claims for costs incurred for responding to releases of hazardous substances, pollutants, or contaminants and (2) notifying concerned parties regarding limitations on the payment of response claims.	Final rule 12/92.
*180-042.00	Federally Permitted Releases 40 CFR 117 40 CFR 302 40 CFR 355	NPRM 53 FR 27268 7/19/88 Supplemental Notice 54 FR 29306 7/11/89 Regulatory Agenda 57 FR 17455 4/27/92	EPA proposes to clarify the federally permitted release exemptions from CERCLA release reporting and liability provisions.	Final rule 11/92.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*180-056.00	Designation of Extremely Hazardous Substances as CERCLA Hazardous Substances 40 CFR 302	NPRM 54 FR 3388 1/23/89 Notice 54 FR 15802 4/19/89 Regulatory Agenda 57 FR 17454 4/27/92	EPA proposes to designate 226 extremely hazardous substances (EHSS), as defined in Sect. 302 of SARA, as hazardous substances pursuant to Sect. 102 of CERCLA. EPA intends to reduce potential confusion concerning the different SARA Title III and CERCLA requirements by ensuring consistent procedures for reporting releases of all EHSS.	Final rule maybe by 1/93; caught up in moratorium.
*180-065.00	Reimbursement to Local Governments for Emergency Response to Hazardous Substance Releases 40 CFR 310	Interim final rule 52 FR 39386 10/21/87 Regulatory Agenda 57 FR 17456 4/27/92	EPA authorizes reimbursement of local governments for costs incurred in providing temporary emergency measures in response to releases of hazardous substances. Reimbursement is limited to \$25,000 per incident and is not intended to supplant local funds normally provided for response.	Final rule 11/92.
*180-072.00	RQ Adjustments for Substances on the Extremely Hazardous Substances List 40 CFR 302 40 CFR 355	NPRM 54 FR 35988 8/30/89 Regulatory Agenda 57 FR 17454 4/27/92	EPA proposes to adjust the reportable quantities (RQs) for 225 substances on the extremely hazardous substance list, which EPA has proposed for designation as CERCLA hazardous substances and 19 substances that are already CERCLA hazardous substances. In addition, EPA will incorporate the threshold planning quantity methodology as part of the RQ adjustment methodology.	Final rule maybe by 1/93; caught up in moratorium.
180-077.00	Natural Resource Damage Assessments - Type A - Coastal and Marine Environment 43 CFR 11	ANPRM 54 FR 5094 2/1/89 ANPRM 54 FR 39015 9/22/89 Planned NPRM 57 FR 16859 4/27/92	DOI intends to revise the type A natural resource damage assessment procedure for coastal and marine environments to conform with recent court rulings, specifically, the incorporation of restoration or replacement values and the inclusion of all reliably calculated lost use values, with no required hierarchy of methodologies for conducting those valuations.	NPRM 6/93.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
180-077.01	Natural Resource Damage Assessments - Type A - Great Lakes Environment 43 CFR 11	ANPRM 53 FR 20143 6/2/88 ANPRM 54 FR 39015 9/22/89 Correction 54 FR 41363 10/6/89 Planned NPRM 57 FR 16859 4/27/92	DOI intends to make modifications to its ongoing efforts to develop a type A natural resource damage assessment procedure for Great Lakes environments to conform with recent court rulings.	NPRM 1/93.
*180-086.00	Toxicological Profiles	NOA 57 FR 46393 10/8/92	ATSDR announces the availability of draft toxicological profiles for 15 priority hazardous substances under CERCLA.	Comments by 2/19/93. -4
*180-086.01	Revised Priority List of Hazardous Substances for Toxicological Profiles	NOA 57 FR 48801 10/28/92	ATSDR makes available the 1992 revised priority list of hazardous substances that will be the subject of toxicological profiles. The list includes 275 substances.	Comments at any time.
*180-088.00	Prior Notice of Citizen Suits - CERCLA 40 CFR 373	NPRM 54 FR 3918 1/26/89 Regulatory Agenda 57 FR 17457 4/27/92	EPA proposes regulations prescribing the manner in which notice of citizen suits is to be provided. They govern the notice required to be given 60 days prior to the filing of a citizen suit.	Final rule 1/93.
*180-092.00	National Contingency Plan - Subpart K, Federal Facilities Requirements 40 CFR 300	Planned NPRM 57 FR 17453 4/27/92	EPA plans to propose Subpart K which will serve as a roadmap to the NCP for requirements pertaining to federal agencies conducting response actions at federal facilities where the release is on or where the sole source is from their facility.	NPRM 2/93; in interagency review. Final rule 2/94.
180-096.00	CERCLA Cost Recovery Program 40 CFR 300 40 CFR 308	NPRM 57 FR 34742 8/6/92	EPA is granted the authority, under CERCLA, to hold potentially responsible parties (PRPs) liable for the cost of cleanup. It is Agency policy to pursue those PRPs for cost expected if a cleanup settlement is not reached. EPA proposes specific recoverable costs, the documentation sufficient to prove EPA's case, and the documents that will be available to PRPs.	Final rule 9/93.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (e)	ANTICIPATED CHANGES	SCHEDULED ACTION
180-105.00	RQs of Lead, Lead Compounds, and Lead-Containing Hazardous Waste Streams 40 CFR 117 40 CFR 302 40 CFR 355	NPRM 57 FR 20014 5/8/92 Correction 57 FR 28671 6/25/92	EPA proposes to adjust the reportable quantity for lead metal, lead compounds, and lead-containing hazardous waste streams to 10 pounds, and for methyl isocyanate to 100 pounds.	Final rule 5/93.
180-106.00	Procedures for Reimbursement Petitions Under CERCLA 40 CFR undetermined	Planned NPRM 57 FR 17453 4/27/92 NOA 57 FR 36402 8/13/92	EPA is considering proposing a rule to set out a uniform process to review petitions for cost reimbursement filed by parties who have been ordered to clean up Superfund sites.	NPRM 3/93.
*180-111.00	National Priorities List - Eleventh Update 40 CFR 300	NPRM 56 FR 35840 7/29/91 Final rule 57 FR 47180 10/14/92	EPA adds 26 sites to the general Superfund section of the MPL, 7 sites to the federal facilities section, and deletes 4 sites. Fifteen of the sites were proposed for listing in the MPL eleventh update and 18 in the twelfth update (see RUM# 180-112). None of the federal sites added are DOE sites.	Effective 11/13/92.
*180-112.00	National Priorities List - Twelfth Update 40 CFR 300	NPRM 57 FR 4824 2/7/92 Final rule 57 FR 47180 10/14/92	EPA adds 26 sites to the general Superfund section of the MPL, 7 sites to the federal facilities section, and deletes 4 sites. Fifteen of the sites were proposed for listing in the MPL eleventh update (see RUM# 180-111) and 18 in the twelfth update. None of the federal sites are DOE sites.	Effective 11/13/92.
180-119.00	CAA Hazardous Pollutants - CERCLA Designation and RQ Adjustments 40 CFR 302.4	Planned NPRM 57 FR 17452 4/27/92	EPA will designate as CERCLA hazardous substances non-CERCLA hazardous air pollutants recently added to Sect. 112 of the CAA by the amendments of 1990 and will adjust the RQs of these hazardous air pollutants.	NPRM 4/93. Final rule 4/94.
180-120.00	Procedures for Contract Laboratory Program Investigation - NCP Appendix 40 CFR 300	NPRM 57 FR 21576 5/20/92	EPA proposes procedures for OSWER to deal consistently with Contract Laboratory Program (CLP) labs under investigation for alleged fraud.	Final rule 12/92.

(e) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.

* Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RUM# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*180-124.00	Settlement Policy on Risk Assessments at Superfund Sites	Notice 57 FR 6116 2/20/92	EPA announces it will evaluate its settlement policy on the performance of risk assessments at Superfund sites under CERCLA.	NOA of evaluation report 3/93; final decision on settlement policy 8/93.
*180-126.00	National Priorities List - Thirteenth Update 40 CFR 300	MPRM 57 FR 47204 10/14/92	EPA proposes to add nine sites, including one federal facility site, to the NPL. The federal facility site is a naval air station.	Comments by 12/14/92. Final rule 4/93.
*180-132.00	Hazardous Waste Capacity Assurance Planning	NOA 57 FR 41496 9/10/92	EPA announces the availability of the 1993 draft Guidance for Capacity Assurance Planning describing a national approach to planning for hazardous waste disposal and an addendum describing alternative approaches on some issues.	
SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT				
*190-014.00	Technical Assistance Grants - NPL Sites 40 cfr 300	ANPRM 52 FR 22244 6/10/87 Interim final rule 53 FR 9736 3/24/88 Interim final rule amendment 54 FR 49848 12/1/89 Final rule. 57 FR 45311 10/1/92	EPA issues a final rule to improve the technical assistance grant program for promoting public participation in the Superfund cleanup process. Principle changes include simplification of the procurement procedures and application process, expansion of allowable activities, reinstatement of the administrative cap at 20%, and clarification of the language concerning ineligible applicants.	Interim final rule effective 3/24/88. Amendment effective 12/1/89. Final rule effective 10/1/92.
*190-023.00	Prior Notice of Citizen Suits - EPCRA (SARA Title III) 40 CFR 373	MPRM 54 FR 3918 1/26/89 Regulatory Agenda 57 FR 17457 4/27/92	EPA proposes regulations prescribing the manner in which notice of citizen suits is to be provided. They govern the notice required to be given 60 days prior to the filing of a citizen suit.	Final rule 1/93.
*190-042.00	Administrative Hearing Procedures for Superfund Claims 40 CFR 305	Planned MPRM 57 FR 17456 4/27/92	EPA will establish procedures for conducting administrative hearings for persons who have made claims against Superfund but are dissatisfied with the award.	Interim final rule 12/92.

(a) MPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.

* Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
190-048.00	Superfund Response Action Contractor Indemnification	Proposed policy 54 FR 46012 10/31/89	EPA issues a proposed guidance document to implement Sect. 119 of CERCLA as amended by SARA. Sect. 119 provides the President with discretionary authority to indemnify response action contractors (RACs) for negligent releases arising out of response action activities at sites on the NPL and removal action sites. As delegated by the President, EPA may also extend indemnification to states (or a political subdivision) and potentially responsible parties (PRPs).	Final guidance document 11/92.
190-053.00	Toxic Chemical Release Reporting - Ammonium Sulfate 40 CFR 372	NPRM 55 FR 12144 3/30/90 NOA 55 FR 12148 3/30/90	In response to a petition, EPA proposes to delete ammonium sulfate (solution) from the list of toxic chemicals under Sect. 313 of SARA because releases of ammonium sulfate (solution) can be more effectively covered by the ammonia listing. EPA is clarifying the ammonia listing so that it encompasses other sources of aqueous ammonia.	Final rule undetermined; EPA will not release schedule for action.
*190-056.00	Extremely Hazardous Substance List - Explosivity Criteria 40 CFR 355	ANPRM; NOA 55 FR 35012 8/27/90 Planned NPRM 57 FR 17454 4/27/92	EPA is considering proposing that chemicals displaying certain flammability and explosivity criteria be added to the list of extremely hazardous substances under Title III of SARA. The Agency announces the availability of technical background documents on the potential criteria for listing explosives and flammables.	Next action 2/93; reviewing SAB comments.
190-059.00	Non-APA Consolidated Rules of Practice for Administrative Assessment of Civil Penalties Under CERCLA, SARA, SDWA, and CWA 40 CFR 28	NPRM 56 FR 29996 7/1/91	EPA proposes non-APA (Administrative Procedure Act) consolidated rules of practice for its administrative assessment of Class I and II civil penalties under Sect. 109 of CERCLA, Sect. 325 of EPCRA, Sects. 309 and 311 of CWA, and Sect. 1423 of SDWA.	Final rule 12/92.
190-060.00	Toxic Chemical Release Reporting - Sulfuric Acid 40 CFR 372	NPRM 56 FR 34156 7/26/91	EPA grants a petition to modify the listing for sulfuric acid on the list of toxic chemicals subject to Sect. 313 of EPCRA. Specifically, EPA proposes to delete nonaerosol forms of sulfuric acid from the list of toxic chemicals subject to Sect. 313.	Final rule 4/93.
190-061.00	Addition of Air Toxics to Toxics Release Inventory 40 CFR 372	Planned NPRM 57 FR 17395 4/27/92	EPA will propose to add 17 chemicals to the list of toxic chemicals subject to Sect. 313 reporting requirements under EPCRA. Sixteen were designated hazardous air pollutants under the CAA Amendments of 1990; the seventeenth is extremely toxic to aquatic organisms.	NPRM 2/93.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
190-063.00	Toxic Chemical Release Reporting - HCFCs 40 CFR 372	NPRM; NOA 57 FR 28159 28180 6/24/92	EPA proposes to add hydrochlorofluorocarbons (HCFCs) as a category to the list of toxic chemicals subject to reporting under Sect. 313 of EPCRA. A guidance document on HCFCs covered by the proposed category is available.	Final rule undetermined.
*190-064.00	Toxic Chemical Release Reporting - Addition of Chemicals; SNUR 40 CFR 372 40 CFR 721	NPRM 57 FR 41020 9/8/92	In response to a petition, EPA proposes to add 68 chemicals and 2 chemical categories to the list of toxic chemicals subject to EPCRA reporting. Alternatively, EPA proposes to add only those identified chemicals that are produced in quantities greater than a certain annual manufacturing volume threshold set by EPA, and proposes a significant new use rule (SNUR) under TSCA that would cover substances manufactured in amounts less than this manufacturing volume threshold.	Final rule undetermined.
POLLUTION PREVENTION ACT				
*195-002.00	Mandatory Pollution Prevention Reporting in TRI Reports 40 CFR 372	NPRM 56 FR 48475 9/25/91 Notice 57 FR 22330 5/27/92	EPA proposes to make mandatory the reporting of source reduction and recycling information in the Toxic Chemical Release Inventory (TRI) reports, including the quantity of a chemical entering any wastestream, released, recycled, or treated at a facility, and a production ratio or activity index for the reported chemical.	Final rule 3/93.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EN-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
SAFE DRINKING WATER ACT				
Drinking Water Chemicals Proposed Test Rule - RU# 920-123				
Non-APA Consolidated Rules of Practice for Administrative Assessment of Civil Penalties Under CERCLA, SARA, SDWA, and CWA - RU# 190-059				
880-007.00	Primary Drinking Water Regulations - Radionuclides (Phase IV)	ANPRM for MCLGs 48 FR 45502 10/5/83	EPA proposes MCLGs of zero and the following MCLs for radionuclides: radium-226 and radium-228, 20 pCi/L; radon-222, 300 pCi/L; uranium, 30 pCi/L; beta and photon emitters (excluding radium-228), 4 mrem/yr; gross alpha emitters (excluding radium-226, uranium, and radon-222), 15 pCi/L. EPA also proposes monitoring, reporting, and public notification requirements for these radionuclides.	Final rule scheduled for 4/93 but Congress voted to delay the regulation until the end of 1993.
	40 CFR 141 40 CFR 142	ANPRM for MCLs 51 FR 34836 9/30/86 NPRM 56 FR 33050 7/18/91 Corrections 56 FR 43573 9/3/91 Corrections 56 FR 52241 10/18/91 Regulatory Agenda 57 FR 17415 4/27/92		
880-010.00	NPDWRs - Synthetic Organic Chemicals and Inorganic Chemicals (Phase II)	NPRM 56 FR 3600 1/30/91 Final rule 56 FR 30266 7/1/91 Notice 57 FR 22178 5/27/92	EPA revises monitoring requirements for the eight VOCs promulgated 7/8/87 (52 FR 25690) and sets MCLs and MCLGs for aldicarb, aldicarb sulfide, aldicarb sulfone, pentachlorophenol, and barium. EPA postpones the 1/1/93 effective date of the SDWA regulations for aldicarb, aldicarb sulfide, and aldicarb sulfone to reconsider the MCLGs and MCLs for these compounds.	Monitoring/sampling requirements effective 7/30/92. MCLs/MCLGs effective 1/1/93 for pentachlorophenol and barium; effective date postponed indefinitely for aldicarb compounds.
	40 CFR 141 40 CFR 142			
880-011.00	NPDWRs - Groundwater Disinfection	Planned NPRM 57 FR 17412 4/27/92 NOA 57 FR 33960 7/31/92	EPA will propose that all public water systems using groundwater use disinfection treatment processes; variance criteria will be developed. The Agency intends to propose MCLs and MCLGs or treatment technique requirements for disinfectants and disinfection by-products as part of Phase VI (see RU# 880-050). EPA makes available a draft summary of the Groundwater Disinfection Rule.	NPRM 6/93. Final rule 6/95.
	40 CFR 141 40 CFR 142			

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
880-013.00	NPDWRs - Inorganic and Organic Compounds (Phase V/24) 40 CFR 141 40 CFR 142 40 CFR 143	ANPRM 48 FR 45502 10/5/83 NPRM 55 FR 30370 7/25/90 NOA 56 FR 60949 11/29/91 Final rule 57 FR 31776 7/17/92 Notice 57 FR 46025 10/6/92	EPA sets MCLs and MCLGs for 18 synthetic organic chemicals and five inorganic chemicals. The NPDWRs consist of MCLs and monitoring, reporting, and public notification requirements. EPA defers setting an MCL/MCLG for sulfate and a SMCL for hexachlorocyclopentadiene at this time. EPA also sets the best available technology (BAT) upon which the MCLs are based and BAT for the purpose of issuing variances. EPA announces that it has submitted to OMB for review the recordkeeping/reporting requirements of the Phase V rule.	MCLs/MCLGs effective 1/17/94 except for Endrin's which is effective 8/17/92.
880-027.00	Amendments to the UIC Program ("Reg Fix Package") 40 CFR 144 40 CFR 146	NPRM 55 FR 26462 6/28/90 Regulatory Agenda 57 FR 17415 4/27/92	EPA proposes amendments to the UIC noncompliance and program reporting requirements and to the mechanical integrity requirements. EPA also clarifies how existing injection wells become authorized by rule and when injection is prohibited for failure to comply with authorization-by-rule requirements. Finally, EPA codifies SDWA Sect. 1445(a)(1) as it applies to the UIC program.	Final rule 11/92.
880-030.00	Wellhead Protection and Sole Source Aquifer Demonstration Programs - Indian Tribes 40 CFR 35	NPRM 52 FR 46712 12/9/87 Regulatory Agenda 57 FR 17414 4/27/92	EPA proposes procedures for determining eligibility of Indian Tribes to apply for treatment as states in receiving grants for wellhead protection and/or sole source aquifer demonstration programs.	Final rule 12/92.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
880-034.00	NPDWRs Lead & Copper 40 CFR 141 40 CFR 142	NPRM 53 FR 31516 8/18/88 Corrections 53 FR 35952 9/15/88 Correction 53 FR 36696 9/21/88 NOA 53 FR 40270 10/14/88 NOA 55 FR 42409 10/19/90 Final rule 56 FR 26460 6/7/91 Corrections 56 FR 32112 7/15/91 Correcting amendments 57 FR 28785 6/29/92	EPA promulgates MCLGs and NPDWRs for controlling lead and copper in drinking water. EPA sets MCLGs of zero for lead and 1.3 mg/L for copper. EPA sets NPDWRs consisting of a treatment technique requirement that includes corrosion control treatment, source water treatment, lead service line replacement, and public education.	Final rule effective 12/7/92. Interim MCL for lead remains in effect until that time.
*880-046.00	NPDWRs - Arsenic 40 CFR 141	Planned NPRM 57 FR 17412 4/27/92	The current standard for arsenic in drinking water is an interim standard. This rule will set a final MCL and MCLG as required by the SDWA Amendments of 1986. EPA has been sued on the schedule for proposal and promulgation of the arsenic NPDWRs. The final schedule is dependent on settlement of the suit.	NPRM 1/93. Final rule 1/94.
880-049.00	Management of Class V Injection Wells Under Part C 40 CFR 144 40 CFR 145 40 CFR 146	Planned NPRM 57 FR 17414 4/27/92	EPA will establish a regulatory framework for the management of Class V wells, such as certain septic systems and a variety of drainage wells, that will protect against contamination of groundwater while recognizing the difficulties of this diverse well class.	NPRM 11/92. Final rule 2/94.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*880-050.00	NPDWRs - Contaminants From First Drinking Water Priority List (Phase VI) 40 CFR 141	Planned NPRM 57 FR 17413 4/27/92	EPA will set MCLGs and NPDWRs for about 25 contaminants from the first drinking water priority list, as required by the SDWA Amendments of 1986. The 25 contaminants come from two groups: disinfection by-products (Phase VI-A) and organic and inorganic chemicals (Phase VI-B).	NPRM 6/93. Final rule 6/95.
		NOI 57 FR 42533 9/15/92	EPA announces it is considering establishing an advisory committee to negotiate NPDWRs for disinfectants and disinfection byproducts.	
	Revision of VOC Analytical Methods 40 CFR 141	Planned NPRM 57 FR 17413 4/27/92	EPA will propose to allow the use of the updated VOC methods 502.2, 503.1, 504, 524.1, and 524.2 for compliance monitoring of trihalomethanes in drinking water.	NPRM 12/92. Final rule 12/93.
*880-053.00				
*880-056.00	Class I Hazardous Waste Injection Wells - UIC Regulations 40 CFR 146	NPRM 56 FR 41108 8/19/91 Final rule 57 FR 46292 10/7/92	EPA revises its testing and monitoring regulations to require that a casing inspection log (CIL) be run whenever the owner or operator of a Class I hazardous waste injection well conducts a workover in which the injection tubing is pulled.	<u>Effective 11/6/92.</u>
CLEAN WATER ACT				
Non-APA Consolidated Rules of Practice for Administrative Assessment of Civil Penalties Under CERCLA, SARA, SDWA, and CWA - RU# 190-059				
140-018.00	Guidelines Establishing Test Procedures for the Analysis of Pollutants - Dioxin Measurement 40 CFR 136	NPRM 56 FR 5090 2/7/91 Notice 56 FR 24814 5/31/91	Under Sect. 304(h) of the CWA, EPA proposes to amend the guidelines establishing test procedures for the analysis of pollutants by adding a method for the analysis of 17 tetra-through octa-chlorinated dioxin and furan compounds.	Final rule undetermined; still under review.
*140-018.01	Guidelines Establishing Test Procedures for the Analysis of Pollutants - Microwave Digestion 40 CFR 136	NPRM 56 FR 55410 10/25/91 Final rule 57 FR 41830 9/11/92	EPA approves the use of an alternate procedure, microwave heating, for the digestion and preparation of domestic and industrial wastewater samples prior to analysis for the determination of 13 inorganic chemicals.	<u>Effective 10/13/92.</u>

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
140-035.00	Disposal of Sewage Sludge 40 CFR 257 40 CFR 503	NPRM 54 FR 5746 2/6/89 NOA 54 FR 43124 10/20/89 NOA 55 FR 47210 11/9/90 Notice 56 FR 30448 7/2/91 Notice 56 FR 33186 7/18/91 Regulatory Agenda 57 FR 17410 4/27/92	EPA proposes technical requirements for the final use and disposal of sewage sludge when landfarmed, sold, monofilled, surface disposed, or incinerated. Related computer programs and background documents are listed. The standards will be expanded and revised as information becomes available.	Final rule 12/92.
140-039.00	NPDES Permit - Compliance Extension for Innovative Technologies 40 CFR 122 40 CFR 124 40 CFR 125	NPRM 50 FR 49904 12/5/85	EPA proposes a revised rule for dischargers of toxic and nonconventional pollutants who apply for NPDES extensions to install innovative technologies under Sect. 301(k) of the Clean Water Act.	Reproposed NPRM suspended from OMB review and returned to EPA. Next action undetermined; under evaluation.
140-041.00	Disposal Sites - Denial or Restriction 40 CFR 231	Planned NPRM 57 FR 17407 4/27/92	EPA will revise 404(c) regulations by establishing procedures to be invoked when they are considering the use of 404(c) to prevent the discharge of dredged or fill material into a defined area of U.S. waters. The revisions are based on a review of previous experience.	NPRM 1/93. Final rule 1/94.
*140-066.00	Water Quality Standards Numeric Criteria for Priority Pollutants - State Compliance 40 CFR 131	NPRM 56 FR 59420 11/19/91 Corrections 56 FR 63471 12/4/91 Regulatory Agenda 57 FR 17408 4/27/92	EPA proposes to establish, on a national basis, numeric water quality criteria for toxic pollutants that will become part of the water quality standards of states that have failed to comply with Sect. 303(c)(2)(8) of the CWA, thus bringing those standards into compliance with the CWA.	Final rule 12/92.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*140-067.00	Revisions to the NPDES Regulations 40 CFR 122-125 40 CFR 403 40 CFR 434 40 CFR 501	Planned NPRM 57 FR 17406 4/27/92	EPA will propose revisions to the NPDES regulations to clarify existing requirements and policies.	NPRM suspended from OMB review 6/22/92. Next action undetermined: may issue guidance instead of a rule.
140-071.00	NPDES Sludge Permits - State Sludge Management Programs 40 CFR 122 40 CFR 123 40 CFR 501	NPRM 57 FR 22197 5/27/92 Notice 57 FR 30970 7/13/92 Notice 57 FR 32794 7/23/92	EPA proposes to revise rules on sewage sludge permitting and state sewage sludge program requirements to change the dates for submitting permit applications.	Final rule 11/92.
140-077.00	NPDES - State Listing Requirements, Section 303(d) (Water Quality Planning and Management)	NPRM 57 FR 33051 7/24/92	EPA proposes two options for determining which facilities newly identified under CWA Sect. 304(l) are required to have individual control strategies (ICSS): (1) require ICSS only for point sources originally subject to such a requirement or (2) give the state discretion to determine eligibility on a case-by-case basis.	Final rule undetermined.
*140-081.00	Effluent Guidelines Plan	Notice 57 FR 19748 5/7/92 Notice 57 FR 41000 9/8/92	EPA announces its plans for developing new and revised effluent guidelines to regulate industrial discharges to surface waters and to POTWs.	Effective 10/8/92.
*140-084.00	NPDES Permit Application - Standard Form A, Short Form A 40 CFR 122.21(j)	Planned NPRM 57 FR 17407 4/27/92	EPA will revise the current NPDES Permit Application Standard Form A (municipal), and Short Form A (municipal) to reflect amendments to the Clean Water Act and changes in program requirements and emphasis.	NPRM 4/93. Final rule 4/94.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NDA = Notice of Availability.
* Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RUB# indicates item of special interest to EN-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*140-005.03	Storm Water NPDES Permitting Strategy and Requirements - Industrial and Construction Activities 40 CFR 122	Final permit 57 FR 41176 9/9/92	EPA issues final NPDES general permits for storm water discharges associated with construction site activity in 10 states, 4 territories, and on Indian lands and federal facilities in certain states.	Final permit effective 9/9/92.
		Final permit 57 FR 41236 9/9/92	EPA issues final NPDES general permits for storm water discharges associated with industrial activity in 11 states, 3 territories, and on Indian lands and federal facilities in certain states.	Final permit effective 9/9/92.
		Final permit 57 FR 44438 9/25/92	EPA issues final NPDES general permits for storm water discharges associated with industrial activity in Massachusetts, Puerto Rico, District of Columbia, Guam, and American Samoa; on Indian lands in New York; and from federal facilities in Delaware.	Final permit effective 9/25/92.
		Final permit 57 FR 44412 9/25/92 Correction 57 FR 45112 9/30/92	EPA issues final NPDES general permits for storm water discharges associated with construction activity in Florida, Massachusetts, District of Columbia, Guam, and American Samoa; on Indian lands in New York; and from federal facilities in Delaware.	Final permit effective 9/25/92.
*140-005.04	Phase II Storm Water Permitting Program - Additional Sources 40 CFR 122	Notice 57 FR 41344 9/9/92	Under CMA Sect. 402(p)(6), EPA solicits comment on ways to implement the second phase of the storm water permitting program for sources/activities not regulated under the existing program.	Next action undetermined.
*140-009.00	Biological Test Procedures for the Analysis of Pollutants 40 CFR 136	NPRM 54 FR 50216 12/4/89	EPA proposes to amend 40 CFR 136 by adding new biological measurements and test procedures for the analysis of pollutants under the CMA 304(h) and by updating other procedures. Methods would be added to measure toxicity in effluents and receiving waters, to measure mutagenicity, to monitor viruses in wastewaters and sludges, and to update citations to microbiological methods.	Final rule 3/93.
*140-005.00	Effluent Guidelines and Standards - Organic Chemicals, Plastics, and Synthetic Fibers Category 40 CFR 300.440 40 CFR 414	NPRM 55 FR 42332 10/18/90 Final rule 57 FR 41836 9/11/92	EPA issues amendments to allow regulatory authorities to: (1) establish cyanide limitations and standards based on best professional judgement for elevated levels of non-amenable cyanide resulting from the complexing of cyanide at the process source of cyanide-bearing waste streams and (2) establish levels of cyanide and standards to accommodate low background levels of metals in non-metal-bearing waste streams." EPA also amends Appendices A and B to correct listing errors and to specify the method for determining BOD5 and TSS effluent limitations.	Final rule effective 10/26/92. Varying compliance dates are given in the final rule.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
* Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
140-095.81	Effluent Guidelines and Standards - Organic Chemicals, Plastics, and Synthetic Fibers Category	NPRM 56 FR 63897 12/6/91 Correction 56 FR 66120 12/20/91	In response to litigation, EPA proposes several amendments to 40 CFR 414 which sets effluent limitations for point sources in the organic chemicals, plastics, and synthetic fibers category.	Final rule 5/93.
140-103.00	Treatment of Indian Tribes as States - NPDES and Sludge Management Programs 40 CFR 122-124 40 CFR 501	NPRM 57 FR 8522 3/10/92	EPA proposes to establish requirements and procedures by which an Indian Tribe may be treated as a state and be approved to administer the NPDES and/or sludge management program.	Final rule 1/93.
*140-104.00	Treatment of Indian Tribes as States for Purposes of Section 404 40 CFR 230 40 CFR 233	NPRM 54 FR 49180 11/29/89 Regulatory Agenda 57 FR 17410 4/27/92	EPA proposes a rule that would: (1) establish requirements for determining eligibility of Indian Tribes to be treated as states for purposes of Sect. 404 of the CWA, and (2) if found eligible, allow for assumption of the dredge and fill permit program.	Final rule 11/92.
*140-108.00	Shore Protection Act Section 4103(B) Regulations 40 CFR undetermined	Planned NPRM 57 FR 17408 4/27/92	The EPA Administrator, in consultation with the Secretary of DOT, is considering regulations: (1) requiring that waste sources, receiving facilities, and vessels provide the means and facilities to assure that waste will not be deposited into coastal waters during handling; (2) requiring the submission and adoption of an operation and maintenance manual of procedures to prevent, report, and clean up waste deposits; and (3) installing of tracking systems if deemed appropriate.	NPRM 4/93. Final rule 4/94.
140-109.00	Effluent Guidelines and Standards for the Waste Treatment Category 40 CFR Subchapter M	Planned NPRM 57 FR 17405 4/27/92	EPA is developing regulations that will cover centralized waste treatment (CUT) facilities that generally treat aqueous and liquid hazardous and non-hazardous waste as Phase I of this regulation. Phase II will regulate hazardous waste incinerators and landfill leachate discharges. EPA plans on collecting Phase II screening information in conjunction with the Phase I technical study.	Phase I NPRM 4/94. Final rule 1/96. Phase II NPRM 12/95. Final rule 12/97.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.

* Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*140-110.00	Secondary Treatment Requirements for Municipal Discharge into Marine Waters 40 CFR 125	NPRM 56 FR 2814 1/24/91	EPA responds to statutory changes made to Sect. 301(h) of the CWA which governs secondary treatment waivers for municipal discharges into marine waters. EPA proposes changes to appendices A and B of Subpart G to simplify and revise the application requirements for waivers and permit renewals.	<u>Final rule 1/93.</u>
		Notice 57 FR 46390 10/8/92	EPA submits to OMB for review an information collection requirement titled "Modification of Secondary Treatment Requirements for Discharges into Marine Waters."	
140-111.00	CWA Section 404 Program Definition 40 CFR 232.2(q)	Planned NPRM 57 FR 17407 4/27/92	This action would revise the definition of "waters of the U.S." by adding four examples to those currently contained under that definition. The intent is to clarify aspects of the current definition which define waters, "the use, degradation or destruction of which would or could affect interstate or foreign commerce," as waters of the U.S.	NPRM 7/93. Final rule 7/94.
140-114.00	Bioconcentratable Contaminants	NOA 56 FR 13150 3/29/91	EPA announces the availability of the draft guidance document entitled "Assessment and Control of Bioconcentratable Contaminants in Surface Waters" to provide guidance to state and federal regulators on assessing and, where necessary, controlling the release of pollutants which, due to their chemical properties, accumulate in tissues of aquatic organisms.	Final guidance document 7/93.
*140-116.00	Test Procedures for the Analysis of Pollutants - Test Methods Using CFCs 40 CFR 136 40 CFR 260 40 CFR 261	NPRM 56 FR 30519 7/3/91	EPA proposes analytic methods under the CWA and RCRA to allow the use of alternative solvents instead of CFCs in these methods.	<u>Notice of withdrawal of NPRM 11/92.</u>
140-119.00	Ambient Water Quality Criteria for Aquatic Life - Metals	NOA 57 FR 24041 6/5/92	EPA announces the availability of interim guidance on interpretation and implementation of ambient WQC for aquatic life for metals in state water quality programs.	Next action undetermined.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
140-120.00	Section 404 Dredge and Fill Program 33 CFR 323 33 CFR 328 40 CFR 110 40 CFR 112 40 CFR 116-117 40 CFR 122 40 CFR 230 40 CFR 232 40 CFR 402	NPRM 57 FR 26894 6/16/92	The COE and EPA propose to modify the definition of discharge of dredged material under Sect. 404 of the CWA, clarify when the placement of pilings is considered discharge of dredged material, and clarify that prior converted croplands are not waters of the United States.	Final rule undetermined.
*140-123.00	COE Regulatory Guidance Letters	Notice 57 FR 45773 10/5/92	The COE publishes a regulatory guidance letter dealing with Special Area Management Plans (SAMPs) for environmentally sensitive areas.	
OIL POLLUTION ACT OF 1990				
*145-001.00	Natural Resource Damage Assessments - Oil Pollution Act 15 CFR Ch. IX	ANPRM 55 FR 53478 12/28/90 ANPRM 57 FR 8964 3/13/92 Comment period extended 57 FR 44347 9/25/92	NOAA intends to develop proposed regulations pursuant to Sect. 1006 of the Oil Pollution Act of 1990 to establish procedures by which natural resources trustees may determine recoverable damages as compensation for injury, loss, or destruction of natural resources as a result of a discharge of oil into or upon navigable waters or adjoining shorelines. On 3/13/92 NOAA provided a status report concerning the regulations being developed and sought additional input regarding future content and procedures.	Comments by 12/1/92 for comments specific to the calculation of nonuse values. NPRM 12/92.
145-002.00	Oil Pollution Prevention 40 CFR 112	NPRM - Phase I 56 FR 54612 10/22/91 Regulatory Agenda 57 FR 17421 4/27/92	EPA is pursuing a two-phase regulatory approach to propose changes to the oil spill prevention regulation. As Phase I, EPA proposes to establish requirements for Spill Prevention, Control, and Countermeasures (SPCC) to prevent spills of oil into U.S. waters or adjoining shorelines by non-transportation related onshore and offshore facilities and adds a facility notification provision.	Final rule 12/92.
145-002.01	Oil Pollution Prevention 40 CFR 112	Planned NPRM - Phase II 57 FR 17454 4/27/92	The Oil Pollution Act of 1990 was passed requiring facility-specific contingency plans. As Phase II of this rule, EPA will implement the legislative mandate for facility response plans.	NPRM 11/92. Final rule 11/93.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.

* Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
145-003.00	Revisions to the MCP Required by the Oil Pollution Act 40 CFR 300	Planned NPRM 57 FR 17453 4/27/92	The Oil Pollution Act of 1990 requires that EPA prepare and publish revisions to the National Contingency Plan (NCP) for the removal of oil and hazardous substances to implement the requirements of the Oil Pollution Act. EPA will also consider new mandates, such as adding a Fish and Wildlife Plan and Area Contingency Plans.	NPRM 1/93. Final 8/93.
145-004.00	Implementation of Oil Pollution Act of 1990 and Clean Water Act Sect. 311	Executive Order 56 FR 54757 10/22/91	The President issues Executive Order 12777 implementing Sect. 311 of the Federal Water Pollution Control Act (CWA) of October 18, 1972 as amended, and the Oil Pollution Act of 1990.	Next action undetermined.
145-006.00	Claims Under the Oil Pollution Act 33 CFR 135 33 CFR 136 33 CFR 137	Interim final rule 57 FR 36314 8/12/92	The Coast Guard issues an interim rule to implement certain provisions of the Oil Pollution Act concerning the filing of claims for uncompensated removal costs or damages resulting from the discharge of oil.	Interim final rule effective 8/12/92. Comments by 12/10/92.
*145-007.00	Oil Spill Prevention and Response - Offshore Facilities 30 CFR 250	ANPRM 57 FR 36032 8/12/92 Correction 57 FR 39421 8/31/92	The Minerals Management Service announces its intent to develop regulations governing oil spill prevention and response for offshore facilities including state submerged lands and pipelines.	<u>NPRM undetermined.</u>

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
CLEAN AIR ACT				
RCRA Air Emission Standards for Volatile Organics at TSD Facilities -- RU# 840-142				
*120-005.00	NAAQS - Sulfur Oxides 40 CFR 50 40 CFR 51 40 CFR 58	ANPRM 44 FR 56730 10/2/79 NPRM 53 FR 14926 4/26/88 Notice 53 FR 29346 8/4/88 Clarification notice 53 36587 9/21/88	EPA proposes to retain the existing NAAQS for sulfur oxides. Adding an alternative 1-hour primary standard of 0.4 ppm to replace the 3-hour standard (0.5 ppm) is being considered. EPA also proposes to revise the significant harm levels, the Pollutant Standards Index for SO ₂ , and certain monitoring and reporting requirements. EPA incorporates additional material into the dockets for the proposed revisions to the Ambient Air quality Surveillance requirements.	Final rule by 4/15/93.
		Notice of proposed consent decree 57 FR 44375 9/25/92	EPA gives notice of a proposed consent decree, issued in response to litigation and an appeals court decision, that would require EPA to take final action by 4/15/93 on the secondary standards portion of the proposed NAAQS for sulfur oxides.	
120-006.00	NAAQS - Ozone 40 CFR 50.9	First revisions 49 FR 29845 7/24/84 NOA 50 FR 52556 12/24/85 NOA 53 FR 48308 11/30/88 Notice 57 FR 8429 3/10/92 Proposed decision 57 FR 35542 8/10/92 Call for information 57 FR 38832 8/27/92	As a result of a review of health and welfare criteria, EPA proposes that revisions of the primary and secondary standards for ozone are not appropriate at this time. The criteria and supplementary materials are published simultaneously with the issuance of this proposed decision.	Final decision 3/93.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.

* Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*120-010.00	Guideline on Air Quality Models 40 CFR 51 40 CFR 52	NPRM 56 FR 5900 2/13/91 Regulatory Agenda 57 FR 17446 4/27/92	EPA proposes to add several new modeling techniques and to make revisions to the air quality models for estimating ambient air concentrations referenced under the PSD regulations of the CAA.	Final rule 12/92; at OMB.
120-055.00	MESHAPs - Chromium Industrial Cooling Towers 40 CFR 61	NOI to list 50 FR 24317 6/10/85 Planned NPRM 57 FR 17434 4/27/92	Chromium compounds are listed as hazardous air pollutants in the CAA Amendments of 1990. Industrial process cooling towers that use chromate-based water treatment programs have been identified as potentially significant sources of chromium air emissions and as a source category for which NESHAPs are warranted.	NPRM 4/93. Final rule 4/94.
*120-075.00	Source Surveillance of Visible Emissions 40 CFR 52	NPRM 51 FR 31076 8/29/86	EPA proposes new visible emission test procedures to evaluate opacity standards compliance when a SIP lacks an appropriate method or when the Administrator enacts a state plan.	Reproposed NPRM 1/93.
120-083.00	NAAQS - Nitrogen Oxide 40 CFR 50.11	NOA - draft document 56 FR 59285 11/25/91 Regulatory Agenda 57 FR 17427 4/27/92	EPA announces the availability of an external review draft of a revised air quality criteria document of oxides of nitrogen prepared by the Environmental Criteria and Assessment Office (ECAO) of the Office of Research and Development.	Final review and staff paper by 12/92. Rulemaking action 1993.
120-084.00	NAAQS - Carbon Monoxide 40 CFR 50.8	Call for Information 52 FR 27580 7/22/87 NOA 55 FR 14858 4/19/90 Regulatory Agenda 57 FR 17427 4/27/92	EPA will review ongoing studies on health effects of carbon monoxide and make a decision for or against a change in the NAAQS.	Final criteria document 1/93.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*120-093.00	NESHAPs - Hazardous Organics ("HON" rule) 40 CFR 63	Planned NPRM 57 FR 17434 4/27/92	This regulation will control emissions of hazardous organic chemicals from storage tanks, process vents, equipment leaks, transfer operations, and wastewater treatment in synthetic organic chemical manufacturing plants.	<u>NPRM 1/93; at OMB.</u>
*120-094.00	Health Assessment Document - Acetaldehyde	NOA draft 52 FR 19918 5/28/87	EPA issues the first external review draft of the health assessment document for acetaldehyde. The document will be used in the decision process for possible regulation of acetaldehyde under the CAA.	<u>Final document 2/93.</u>
120-103.00	NESHAPs - Organic Solvent Cleaning 40 CFR 63	Planned NPRM 57 FR 17435 4/27/92	This regulation will apply to organic solvent cleaners (degreasers) using any of the hazardous air pollutants listed in the CAA, and will control emissions from new and existing sources.	<u>NPRM 4/93. Final rule 2/94.</u>
*120-113.03	Methods for Measurement of Opacity - Addition to Appendix M 40 CFR 51	NPRM 57 FR 46114 10/7/92	EPA proposes to add test method 203 for the continuous measurement of opacity from stationary sources to appendix M in 40 CFR 51.	<u>Comments by 12/7/92.</u>
*120-116.00	NSPS - Municipal Landfills 40 CFR 60	NPRM 56 FR 24468 5/30/91 Regulatory Agenda 57 FR 17445 4/27/92	EPA proposes to add subpart MMW to 40 CFR 60 for control of new sources and proposes emission guidelines and compliance schedules for existing sources under subpart C. Subpart MMW would limit emissions from certain new and modified municipal solid waste landfills and implement Sect. 111(b) of the CAA. The proposed emission guidelines implement Sect. 111(d) of the CAA which requires the Administrator to prescribe regulations under which the states will submit plans for the control of existing emissions of certain air pollutants for which NSPS have been established.	<u>Final rule 1/93.</u>

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.

* Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
120-117.00	NESHAPs - Benzene 40 CFR 61	NPRM 54 FR 38083 9/14/89 Final rule 55 FR 8292 3/7/90 NPRM 56 FR 64217 12/9/91 Final rule 57 FR 8012 3/5/92 NPRM 57 FR 8017 3/5/92 Correction 57 FR 21368 5/20/92	EPA stays the effectiveness of Subpart FF of 40 CFR 61, the benzene standard for benzene waste operations, for all sources originally subject to this rule until action is taken to amend the rule in response to a settlement agreement with the regulated community. EPA proposes amendments to Subpart FF to clarify provisions of the rule that have been widely misunderstood by affected sources.	Subpart FF stayed until final rule published. Correction of 5/20/92 effective 5/20/92. Final rule by 12/1/92.
*120-118.03	Radionuclides NESHAPs - Stay of Effective Date for Subpart I - MRC-Licensed Facilities 40 CFR 61	NPRM 56 FR 6339 2/15/91 Final rule 56 FR 18735 4/24/91 NPRM 57 FR 43173 9/18/92	EPA proposes to stay until 11/15/93, or until an earlier date on which a determination can be made, the effectiveness of Subpart I of 40 CFR 61, the NESHAPs for radionuclide emissions as applied to MRC-licensed facilities other than nuclear power reactors. EPA intends to issue a NPRM to rescind Subpart I on or before 11/15/92 and a final rule by 11/15/93.	Subpart I stayed until 11/15/92. Final rule to extend stay of Subpart I due by 11/15/92. NPRM to rescind Subpart I due by 11/15/92, final rule by 11/15/93.
120-118.04	Radionuclides NESHAPs - Subpart I Rescinded for Power Reactors 40 CFR 61	ANPRM 56 FR 10524 3/13/91 NPRM 56 FR 37196 8/5/91	EPA proposes to rescind Subpart I as it applies to nuclear power reactors.	Final rule 11/92.
120-118.05	Radionuclides NESHAPs - Stay of Effective Date for Subpart I - MRC-Licensed Uranium Mill Tailings Sites 40 CFR 61	NPRM 56 FR 55432 10/25/91 Final rule 56 FR 67537 12/31/91	EPA stays the effectiveness of Subpart I as applied to owners/operators of uranium mill tailings disposal sites licensed by MRC. The stay does not concern sites under DOE control.	Effective 12/19/91. Stay remains in effect until Subpart I is rescinded or until 6/30/94.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.

* Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
120-118.06	Radionuclides NESHAPs - Subpart T Rescinded for Uranium Mill Tailings Sites 40 CFR 61	NPRM 56 FR 67561 12/31/91	EPA proposes to rescind Subpart T as it applies to owners/operators of uranium mill tailings disposal sites licensed by NRC. The proposal does not concern sites under DOE control.	Final rule 6/94.
120-148.00	NAAQS - Lead 40 CFR 50.12	Planned NPRM 57 FR 17432 4/27/92	EPA is assessing new health effects information that has become available regarding lead and will make a decision for or against a change in the NAAQS. EPA has prepared a staff paper which has been reviewed and approved by the Clean Air Act Scientific Advisory Committee (CASAC).	NPRM 1993.
120-149.00	NESHAPs - Asbestos (Comprehensive Revisions) 40 CFR 61 40 CFR 63	Planned NPRM 57 FR 17434 4/27/92	EPA is considering revising the asbestos NESHAP to require maximum achievable control technology standards. A screening study is underway and a new schedule will be developed when the study is complete.	No schedule for NPRM as yet; final rule due by 11/94.
*120-155.00	VOC Equipment Leak Fugitive Emissions 40 CFR Ch. 1	Notice 54 FR 37725 9/12/89 Notice 55 FR 14349 4/17/90 Notice 55 FR 27680 7/5/90 Notice 56 FR 9315 3/6/91	EPA issues a notice summarizing major provisions and language of the negotiated rule, agreed to by the negotiating committee, to control VOC fugitive emissions from equipment leaks.	NPRM maybe by 1/93; at OMB. Final rule 1/94.
*120-158.00	NSPS - Medical Waste Incineration 40 CFR 60	Planned NPRM 57 FR 17433 4/27/92	EPA will propose new source performance standards and emission guidelines for existing medical waste incineration sources under Sects. 111 and 129 to reflect the maximum degree of reductions in emissions that have been demonstrated for new units.	NPRM 9/93. Final rule 1/95.
*120-164.00	Ambient Air Monitoring Methods - Equivalent Method	Notice 57 FR 44565 9/28/92	EPA designates an equivalent method for the measurement of ambient concentrations of ozone, an automated analyzer which utilizes the measurement principle based on absorption of ultraviolet radiation by ozone. EPA also designates a new reference method for carbon monoxide, an automated analyzer which utilizes the measurement principle and calibration procedure specified in appendix C of 40 CFR 50.	

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*120-167.00	Compliance Extensions for Early Reduction of Hazardous Air Pollutants 40 CFR 63	NPRM 56 FR 27338 6/13/91 NOA 56 FR 42305 8/27/91 Regulatory Agenda 57 FR 17446 4/27/92	EPA proposes to implement provisions in Sect. 112(i)(5) of the Clean Air Act to allow an existing source to obtain a six-year extension of compliance with an emission standard if the source has achieved an emission reduction of 90 percent or more of hazardous air pollutants by certain dates specified in the Act.	<u>Final rule 12/92; at OMB.</u>
120-168.00	List of Hazardous Air Pollutants - Policy on Petitions for Addition/Deletion 40 CFR 63	Planned NPRM 57 FR 17435 4/27/92	Under Sect. 112(b) of the CAA Amendments of 1990, petitions may be submitted to EPA to add to or delete hazardous air pollutants from the initial list of 189 hazardous air pollutants. This notice will describe the data set that must be provided in submitting an adequate petition.	Interim guidance document still at OMB. No schedule for action; may be withdrawn.
*120-170.00	Ambient Air Quality Surveillance - Enhanced and Additional Monitoring 40 CFR 58	NPRM 57 FR 7687 3/4/92	EPA proposes to revise the ambient air quality surveillance regulations to include provisions for enhanced monitoring of ozone and nitrogen oxides and additional monitoring of VOCs and meteorological parameters. The revisions would require states to establish photochemical assessment monitoring stations as part of their SIP monitoring network in ozone nonattainment areas.	<u>Final rule 3/93; at OMB.</u>
*120-170.01	Ambient Air Quality Surveillance - Monitoring Data Reporting Requirements 40 CFR 58	NPRM 57 FR 46003 10/6/92	EPA proposes amendments to change the data reporting requirements for state and local air monitoring stations (SLAMS) and national air monitoring stations (NAMS). The changes would affect the number of monitoring sites required to submit air quality data to the Aerometric Information Retrieval System (AIRS) and the timing for such data submittals.	<u>Final rule undetermined.</u>
*120-171.00	Prevention of Significant Deterioration (PSD) and New Source Review (NSR) 40 CFR 51-52	Planned NPRM 57 FR 17428 4/27/92	EPA will propose to amend EPA's existing new source review regulations, including prevention of significant deterioration, to conform with the new requirements of the CAA Amendments of 1990.	<u>NPRM 4/93. Final rule 4/94.</u>
*120-173.00	Enhanced Monitoring and Compliance Certification Regulations 40 CFR 70 40 CFR 71	NOA 56 FR 37700 8/8/91 Planned NPRM 57 FR 17429 4/27/92	Regulations will be developed to provide guidance on the appropriate monitoring methods, recordkeeping and reporting requirements, and periodic compliance certification requirements for permits issued under Title V.	<u>NPRM 2/93.</u>

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.

* Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*120-175.00	Clean Fuel Fleet Programs 40 CFR 88	NPRM 56 FR 50196 10/3/91 Regulatory Agenda 57 FR 17430 4/27/92	EPA proposes to incorporate clean fuel fleet vehicle credit programs, emission standards, and certain federal fleet requirements into state implementation plans.	Final rule 12/92. Vehicle conversion regulations - NPRM 12/92. Final rule 7/93.
120-176.00	General Provisions for Major and Area Sources of Air Toxics 40 CFR 63	Planned NPRM 57 FR 17435 4/27/92	General provisions are being developed for 40 CFR 63 which will include standards for 189 hazardous air pollutants to be regulated under Sect. 112 of the CAA Amendments of 1990.	NPRM undetermined; no schedule for action.
120-177.00	Identification of Lesser Quantity Cutoffs for Major Sources Under Section 112 40 CFR 63	Planned NPRM 57 FR 17436 4/27/92	A regulation is under consideration to address the definition of "major source" in Sect. 112, defined as a source that emits 10 tons or more per year of a listed hazardous pollutant or 25 tons per year or more of a mixture of pollutants. This regulation would list pollutants for which a lesser quantity has been developed and the criteria for doing so.	NPRM on indefinite hold.
120-178.00	Standards for Tank Vessel Loading Operations CFR Undetermined	Planned NPRM 57 FR 17437 4/27/92	This regulation will control VOC emissions from tank vessel loading operations, as required by Sect. 183 of the CAA Amendments of 1990. Approximately 65,000 megagrams of VOCs are emitted annually from tank vessel loading operations.	NPRM 12/92. Final rule 12/93.
*120-179.01	General Preamble - Requirements for SIPs Submittals - Addendum for PM-10 and Lead Nonattainment Areas 40 CFR 52	Notice 57 FR 31477 7/16/92	EPA issues a draft addendum to the General Preamble (4/16/92) which contains EPA's preliminary views on how it should interpret Title I with respect to SIP submittal requirements for serious PM-10 and lead nonattainment areas. EPA also announces the availability of staff work products providing technical guidance on BACM for three PM-10 source categories: urban fugitive dust, residential wood combustion, and prescribed silvicultural and agricultural burning.	Final addendum document 4/93.
120-181.00	Guidance for Implementation of Sect. 112(g) - Modifications 40 CFR 63	Planned guidance 57 FR 17435 4/27/92	Guidance is being developed in accordance with the requirements of Sect. 112(g) of the CAA Amendments of 1990 that will set de minimis levels for the 189 listed hazardous air pollutants and establish relative toxicity ranking for determinations of offsets.	NPRM 3/93. Final rule 3/94.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.

* Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*120-183.00	List of Substances and Threshold Quantities 40 CFR 63	Planned NPRM 57 FR 17451 4/27/92	EPA must promulgate an initial list of 100 substances that, in the event of accidental release, are known to cause or be anticipated to cause serious adverse human health or environmental effects. EPA must establish a threshold quantity for each substance listed. EPA is as yet undecided about whether to promulgate under the CAA or CERCLA/SARA.	NPRM 11/92. Final rule 5/93.
*120-184.00	Prevention of Accidental Releases from Stationary Sources and Risk Management Plan 40 CFR 63	Planned NPRM 57 FR 17452 4/27/92	EPA must promulgate regulations and guidance to provide for the prevention and detection of accidental releases from stationary sources. The regulations must require stationary sources to implement a risk management plan for detection and prevention of accidental releases where a regulated substance is present in quantities greater than a threshold amount.	NPRM 12/92. Final rule 11/93.
120-186.00	Clarification of Best Available Control Technology Definition 40 CFR 51 40 CFR 52	Planned NPRM 57 FR 17432 4/27/92	To improve the effectiveness of the prevention of significant air quality deterioration program required by Title I of the CAA, EPA will propose to clarify the regulatory definition of best available control technology (BACT) by adding language that clarifies the legal requirements for a BACT analysis.	NPRM 11/92. Final rule 5/93.
120-187.00	Radionuclide Major Source Definition 40 CFR 63	Planned NPRM 57 FR 17436 4/27/92	Sect. 112(a) defines major source as any source that emits 10 tons or more per year of any hazardous air pollutant (HAP) or 25 tons or more per year of any combination of HAPs. The ton quantities are inappropriate for radionuclides, as very small emissions of radionuclides may be extremely hazardous. EPA will, thus, establish different criteria for radionuclides.	NPRM undetermined; no schedule for action.
*120-188.00	PM-10 Nonattainment Areas - Reclassification From Moderate to Serious 40 CFR 81	NPRM 56 FR 58656 11/21/91	EPA proposes to reclassify 14 of the initial moderate PM-10 nonattainment areas as serious areas. Sect. 188(b)(1) of the CAA requires the Administrator to reclassify any area he determines cannot practicably attain the PM-10 NAAQS by the appropriate attainment date.	Final rule 11/92; at OMB.
*120-189.00	Acid Rain Program - Permits, Allowances, Emissions, CEMS 40 CFR 72 40 CFR 73 40 CFR 75 40 CFR 77	NPRM 56 FR 63002 12/3/91 Regulatory Agenda 57 FR 17443, 17444, 17448, 17449 4/27/92	EPA issues proposed regulations on permits, an allowance system, continuous emissions, and excess emissions penalties for the CAA acid rain program.	Final rule signed 10/26/92; publish 11/92.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*120-190.00	Contractor Listing Regulations 40 CFR 15	Planned NPRM 57 FR 17429 4/27/92	The CAA, the CWA, and Executive Order 11738 mandate the exclusion from federal contracts, grants, or loans of facilities which are the source of criminal violations of those statutes and give EPA discretion to so bar facilities which are the source of continuing or receiving civil violations. This rule would revise 40 CFR 15 to indicate when and by whom this new authority will be exercised.	NPRM 1/93. Final rule 12/93.
120-191.00	Title I Economic Incentive Program Rules 40 CFR 51	Planned NPRM 57 FR 17437 4/27/92	Sect. 182(g)(4) of the CAA requires EPA to publish rules for states to follow in developing an economic incentive program for reducing ozone precursors in serious, severe, and extreme ozone nonattainment areas and serious carbon monoxide areas.	NPRM 11/92. Final rule 5/93.
*120-198.00	Emission Standards for Source Categories of Hazardous Air Pollutants 40 CFR 63	NOA 57 FR 44147 9/24/92	EPA publishes the draft schedule for the promulgation of emission standards for categories of sources emitting hazardous air pollutants listed under Sect. 112(c) of the CAA.	Final schedule 4/93.
120-199.00	Award Regulations CFR undetermined	Planned NPRM 57 FR 17429 4/27/92	Regulations will be developed to define the criteria for administering awards to persons who furnish information or services which lead to criminal convictions or civil penalties under the CAA.	NPRM 12/92. Final rule 6/93.
120-200.00	Citizen Suit Regulations 40 CFR 135	Planned NPRM 57 FR 17429 4/27/92	Citizen suit regulations will be revised to establish procedures for EPA intervention in citizen suits. The regulations will establish the penalty fund authorized by the CAA and include criteria for determining how the monies in the fund will be administered and to whom.	NPRM 11/92. Final rule 11/93.
*120-201.00	Field Citation Regulations CFR undetermined	Planned NPRM 57 FR 17429 4/27/92	Regulations will be developed to implement the Agency's newly authorized field citation enforcement program. The regulations will define the scope of the program and the hearing procedures.	NPRM 1/93. Final rule 12/93.
*120-203.00	Criteria for Imposing Discretionary Sanctions Under Title I 40 CFR 52	NPRM 57 FR 44534 9/26/92	Under Sect. 110(m) of the CAA, EPA proposes criteria it will use when exercising its discretionary authority to apply sanctions on a statewide basis within 24 months of a finding of a deficiency in a state implementation plan.	Comments by 11/27/92. Final rule 5/93.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EM-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
120-204.00	Applicability of Title I New Source Requirements 40 CFR 51 40 CFR 52 40 CFR 60	NPRM 56 FR 27630 6/14/91 Regulatory Agenda 57 FR 17446 4/27/92	EPA proposes to (1) implement several acid rain provisions in Title IV, (2) provide assurance that utilities can undertake Title IV pollution control projects without uncertainty as to the applicability of new source requirements, and (3) implement the recent court decision, <i>WEPCO vs. Reilly</i> , regarding applicability of new source requirements to certain types of electric utility projects.	Final action undetermined.
*120-205.00	Air Quality - Revision to Definition of VOCs 40 CFR 51	NPRM 57 FR 48490 10/26/92	EPA proposes to revise its definition of VOCs for purposes of preparing SIPs to attain NAAQS for ozone. The proposed revision would add perchloroethylene to the list of compounds excluded from the definition of VOC because it has negligible photochemical reactivity and does not contribute to tropospheric ozone formation.	<u>Comments by 12/28/92.</u>
*120-503.00	Recycling Program for Ozone-Depleting Substances (Refrigerant Recycling) 40 CFR 82	ANPRM - Recycling 56 FR 18256 5/1/90 Planned NPRM 57 FR 17428 4/27/92	Under Sect. 608, EPA will propose establishing standards and requirements regarding the use and disposal of Class I substances during the service, repair, or disposal of appliances and industrial process refrigeration that maximizes recapture and recycling.	NPRM 12/92. Final rule 4/93.
120-505.00	CFCs From Vehicle Air Conditioners; Restrictions on Class I and II Substances 40 CFR 82	ANPRM 55 FR 18256 5/1/90 NPRM 56 FR 43842 9/4/91 Supplemental NPRM 57 FR 14764 4/22/92 Final rule 57 FR 31242 7/14/92	EPA establishes standards and requirements for servicing motor vehicle air conditioners, requiring certification of those who repair or service the units and use of approved equipment. Also, effective November 15, 1992, EPA prohibits the sale of containers of ozone-depleting substances under 20 pounds except to certified technicians. Finally, EPA sets standards for the approval of recover/recycle equipment. Standards for "recover only" equipment will be finalized at a later date.	Final rule effective 8/13/92. Effective 11/15/92, the sale of containers of ozone-depleting substances under 20 pounds is prohibited except to certified technicians.
120-506.00	Stratospheric Ozone - Product Ban 40 CFR 82	NPRM 57 FR 199 1/16/92 Regulatory Agenda 47 FR 17449 4/27/92	EPA proposes to ban products containing Class I chemicals that are determined to be nonessential. Specific consumer products listed in the CAA include party streamers, lens cleaners, and noise horns.	Final rule 11/92.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; MOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EN-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*120-507.00	Stratospheric Ozone Protection - Labeling 40 CFR 82	NPRM 57 FR 19166 5/4/92	EPA proposes to require warning labels on containers of, and products containing or manufactured with, certain Class I and II ozone-depleting substances pursuant to Sect. 611 of the CAA. EPA also proposes to require permanent labels on products containing ozone-depleting substances that can be recovered or recycled pursuant to Sect. 608.	<u>Final rule 2/93.</u>
120-508.00	Stratospheric Ozone Protection - Federal Procurement 40 CFR 82	Planned NPRM 57 FR 17439 4/27/92	EPA is required to work with GSA and DOD to develop procurement requirements for each department, Agency, and instrumentality of the U.S. to conform its procurement regulations to maximize the substitution of safe alternatives of ozone depleting substances.	NPRM 12/92. Final rule 10/93.
*120-509.00	Stratospheric Ozone - Class I and II Safe Alternatives 40 CFR 82	ANPRM 57 FR 1984 1/16/92 Planned NPRM 57 FR 17436 4/27/92	EPA will: (1) make unlawful the replacement of any class I or II substance with a substitute that may cause adverse effects, (2) establish a process for publishing a list of safe and unsafe alternatives, (3) publish guidance on petitioning to add or remove a substance from the list, and (4) establish a program for submission of health and safety studies on substitutes.	NPRM 11/92. <u>Final rule 9/93.</u>
*700-022.00	HLW Disposal in Geologic Repositories - EPA and NRC Conforming Amendments 10 CFR 60	NPRM 51 FR 22288 6/19/86 Regulatory Agenda 57 FR 17734 4/27/92	NRC proposes to conform its regulations for disposal of high-level radioactive wastes in geologic repositories to EPA standards as mandated by the NUPA.	<u>On hold pending promulgation of revised HLW standards by EPA.</u>
700-049.00	Radiation Dose Criteria for Accidents at HLW Geologic Repositories (Repository Operations Criteria) 10 CFR 60	Notice of receipt 55 FR 28771 7/13/90 Correction 55 FR 32639 8/10/90 Planned NPRM 57 FR 17739 4/27/92	NRC will propose to amend the regulations concerning radiation dose criteria. A central issue is the development of radiation dose criteria for a postulated accident that DOE would use to establish a limited access area for the high-level waste (HLW) geologic repository. In addition, a number of new definitions would be added.	NPRM placed on hold.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.

* Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EN-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
700-074.00	Definition of Term - High-Level Radioactive Waste 10 CFR 60	Petition for rulemaking 55 FR 51732 12/17/90	The states of Washington and Oregon request that NRC revise the definition of "high-level radioactive waste" so as to establish a framework and standards by which to determine whether reprocessing waste, e.g., certain waste stored at DOE's Hanford site, is high-level radioactive waste.	Rulemaking decision date undetermined.
*700-078.00	Training and Qualification of Nuclear Power Plant Personnel 10 CFR 50 10 CFR 52	NPRM 57 FR 537 1/7/92 Regulatory Agenda 57 FR 17741 4/27/92	NRC proposes to require nuclear power plant licensees to establish a safety training program for plant personnel based on a systems approach to training.	Final rule 12/92.
*700-080.00	Approved Spent Fuel Storage Casks 10 CFR 72	NPRM 57 FR 28645 6/26/92	NRC proposes to add two additional casks, TN-24 and VSC-24, to the current list of four approved spent fuel storage casks certified and listed under 10 CFR 72. A licensee may choose from any of the listed casks to store spent fuel at the reactor site.	Final rule 1/93.
740-083.00	Environmental Protection Standards for LLW Disposal 40 CFR 193 40 CFR 764	ANPRM 48 FR 39563 8/31/83 Planned NPRM 57 FR 17411 4/27/92	EPA intends to develop environmental radiation protection standards and/or guides for low-level radioactive (possibly including natural and accelerator produced) waste disposal to protect the public health and general environment from potential adverse effects from this activity. Criteria triggering regulations are being considered.	NPRM 12/92. Final rule 12/93.
*740-013.00	Incineration of Low-Level Radioactively Contaminated Waste Oil from Nuclear Power Plants 10 CFR 20	NPRM 53 FR 32914 8/29/88 Request for clarification 53 FR 48721 12/2/88 Regulatory Agenda 57 FR 17735 4/27/92	NRC proposes to amend its regulations to permit the onsite incineration of slightly contaminated waste oils generated at licensed nuclear power plants. EPA requests of NRC clarification of two issues: (1) the responsibility of NRC's licensees complying with the approval requirements of the Clean Air Act, and (2) the potential need for licensees obtaining state or federal hazardous waste permits.	Final rule 12/92.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*740-019.00	Unregulated Disposal of Small Amounts of Radioactive Isotopes 10 CFR 20	Petition for rulemaking 53 FR 41342 10/21/88 Correction 53 FR 44014 11/1/88	Rockefeller University requests that NRC amend its regulations under which a licensee may dispose of animal tissue containing small amounts of radioactivity without regard to its radioactivity. The petition requests that the list of radioactive isotopes for which unregulated disposal is permitted be expanded to include sulfur-35, calcium-45, chromium-51, iodine-125, and iodine-131 in concentrations less than 0.001 microcurie/gm.	Petition withdrawn by Rockefeller University 4/8/92.
*740-021.00	Low-Level Waste Manifest Information and Reporting 10 CFR 20 10 CFR 61	MPRM 57 FR 14500 4/21/92	NRC proposes to (1) improve information contained in manifests accompanying shipments of waste to LLW disposal facilities; (2) establish a Uniform manifest for national use; (3) require that LLW disposal site operators electronically store portions of this manifest information onsite; and (4) require that operators periodically submit, in an electronic format, reports of shipment manifest information. NRC also requests input on whether and how to establish a national data base for LLW.	Final rule 4/93.
*740-025.00	Licensing Requirements for Land Disposal of Radioactive Wastes 10 CFR 61	MPRM 57 FR 8093 3/6/92	NRC proposes to make changes to its licensing requirements for low-level radioactive waste disposal facilities to (1) clarify that 10 CFR 61 applies to above-ground disposal facilities, (2) replace the phrase "quality control program" with "quality assurance program," (3) update the Paperwork Reduction Act Statement in part 61.8, and (4) identify the correct NRC recipient of the licensees' annual reports.	Final rule 11/92.
*740-026.00	Byproduct and Special Nuclear Material - Receipt and Onsite Storage 10 CFR 50	MPRM 57 FR 15034 4/24/92 Final rule 57 FR 47978 10/21/92	NRC amends the conditions of licenses for production and utilization facilities to allow a reactor licensee to receive back and store onsite byproduct and special nuclear material (low-level radioactive waste) that is produced by operating the reactor and sent offsite to be reduced in volume by compaction or incineration.	Effective 11/20/92.
*740-027.00	Concentration Averaging and Encapsulation - Technical Position 10 CFR 61	MOA 57 FR 29105 6/30/92	NRC announces the availability of a proposed revision of the 1983 staff technical position on radioactive waste classification entitled "Technical Position on Concentration Averaging and Encapsulation" which provides guidance on the interpretation of 10 CFR 61 as it applies to classification of low-level radioactive waste.	Final revisions undetermined.

(a) MPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; MOA = Notice of Availability.

* Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded NU# indicates item of special interest to EN-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*740-028.00	Near-Surface Disposal of Low Level Wastes 10 CFR 61	Petition for rulemaking 57 FR 32743 7/23/92	NRC announces that it has received a petition requesting that NRC amend its regulations in 10 CFR 61 concerning classification of LLW to restrict the numbers and types of waste streams which can be disposed of in near-surface disposal facilities.	<u>Next action undetermined.</u>
ATOMIC ENERGY ACT				
EPA/NRC Guidance on Testing Mixed Radioactive and Hazardous Waste -- RU# 840-250.02				
Transportation Regulations - Compatibility with IAEA -- RU# 400-093				
100-016.00	Protection Requirements for Spent Fuel Shipments	NPRM 49 FR 23867 6/8/84	The rule modifies the present interim requirements for protection of shipments of irradiated reactor fuel cooled for 150 days or more. Present interim requirements will remain for fuel cooled less than 150 days.	Final rule postponed indefinitely.
100-018.00	Residual Radioactive Materials Cleanup - Radiation Protection Criteria 40 CFR 194	ANPRM 51 FR 22264 6/18/86 Planned NPRM 57 FR 17411 4/27/92	EPA is developing public health and environmental radiation protection criteria for cleanup of residual radioactivity at decommissioned sites. Licensees of the NRC or Agreement States; sites owned or used by DOE, DOD, the former AEC, and the former Manhattan Engineering District; and sites where natural and accelerator-produced radioactive materials have been used would be affected.	NPRM undetermined; no schedule for action.
100-023.00	Exposure Limits for Transuranics	NPRM 42 FR 60956 11/30/77 Regulatory Agenda 57 FR 17412 4/27/92	EPA proposes interim guidance to federal agencies to limit radiation doses to the general population from transuranic elements present in the environment.	On hold; no action planned at this time.
*100-033.00	Explanation to Table S-3, Uranium Fuel Cycle Environmental Data 10 CFR 51	NPRM 46 FR 15154 3/4/81 Regulatory Agenda 57 FR 17733 4/27/92	NRC proposes a narrative explanation of the numerical values of Table S-3, "Table of Uranium Fuel Cycle Environmental Data," which appears in the NRC environmental protection regulations. Values for radon-222 and technetium-99 will be added.	<u>Final rule 5/93.</u>

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
100-039.00	Residual Radioactivity Criteria for Unrestricted Release of Lands and Structures 10 CFR 20	NOA 55 FR 6137 2/21/90 Planned NPRM 57 FR 17740 4/27/92	NRC will establish residual radioactive contamination limits that must be met before buildings, structures, equipment, materials, and land may be released and the license terminated.	NPRM 10/93. Final rule 10/94.
100-041.00	Standards for Protection Against Radiation 10 CFR 19 10 CFR 20	ANPRM 45 FR 18023 3/20/80 NPRM 51 FR 1092 1/9/86 Notice 55 FR 18689 5/3/90 Final rule 56 FR 23360 5/21/91 Correction 56 FR 23956 5/24/91 Corrections 56 FR 61352 12/3/91 NPRM 57 FR 21216 5/19/92 Notice 57 FR 23929 6/5/92 Correction 57 FR 27845 6/22/92 Final rule 57 FR 38588 8/26/92	NRC revises its requirements for protection of individuals exposed within and outside the workplace to ionizing radiation from normal operations licensed by the NRC. The revision reflects current data on health risks, dosimetry, and radiation protection practices. NRC also issues a notice to confirm the effective dates for the information collection requirements (ICRs) of the 5/21/91 final rule and extends until 1/1/94 the implementation date for these revised standards.	Final rule effective 6/20/91. Implementation deferred until 1/1/94.
100-053.00	Criteria for Extraordinary Nuclear Occurrence 10 CFR 140	NPRM 50 FR 13978 4/9/85 Regulatory Agenda 57 FR 17734 4/27/92	NRC is considering revising the criteria for an "extraordinary nuclear occurrence." The changes are designed to avoid the problems encountered by the NRC in applying existing criteria to Three Mile Island.	Final rule 9/93.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.

* Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*100-125.00	Environmental Standards for the Management and Disposal of Spent Nuclear Fuel, HLW, and TRU Radioactive Wastes 40 CFR 191	Planned NPRM 57 FR 17411 4/27/92	EPA will promulgate generally applicable environmental standards for the management and disposal of spent nuclear fuel, high-level and transuranic radioactive wastes to establish limits for the release of radioactive materials to the environment. Subpart B (disposal standards) of the original rule was vacated by a court decision in 1987.	<u>NPRM to OMB by 12/92.</u> <u>Final rule 11/93.</u>
*100-131.00	Integrated Schedules for Implementation of Plant Modifications 10 CFR 50	Proposed policy statement 52 FR 45344 11/27/87 Final policy statement 57 FR 43886 9/23/92	NRC issues a final policy statement that describes the policy the Commission intends to use to promote voluntary licensee integrated schedules for implementing regulatory requirements and other improvements in nuclear power plants.	<u>Effective 11/23/92.</u>
100-157.00	Transportation Regulations - Compatibility with IAEA 10 CFR 71	NPRM 53 FR 21550 6/8/88 Corrections 53 FR 23484 6/22/88 Regulatory Agenda 57 FR 17735 4/27/92	NRC proposes to revise its regulations for transportation of radioactive material to make them compatible with those of the IAEA. The basic standards for packaging will remain unchanged, and the transport of low-specific-activity radioactive material is considered. NRC also proposes to include the criteria for approval of packages for air transport of plutonium in 10 CFR 71 (see comparable DOT regulation RU# 400-093).	Final rule 12/92.
*100-179.01	Fitness-For-Duty Programs for Category I Fuel Facilities and Shipments 10 CFR 26	NPRM 57 FR 18415 4/30/92	NRC proposes to amend the Commission's fitness-for-duty regulations to include Category I fuel facilities and Category I shipments.	<u>Final rule 3/93.</u>
100-187.00	Licenses and Radiation Safety Requirements for Large Irradiators 10 CFR 36	NPRM 55 FR 50008 12/4/90 Regulatory Agenda 57 FR 17747 4/27/92	NRC proposes to establish a new part 36 to specify radiation safety requirements and licensing requirements for the use of licensed radioactive materials in large irradiators.	Final rule 11/92.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*100-214.00	Nuclear Power Plant Structures, Systems, and Components 10 CFR 50	ANPRM 54 FR 9229 3/6/89 Planned NPRM 57 FR 17737 4/27/92	MRC is proposing to develop regulations requiring enhanced acceptance procedures including, but not limited to, receipt inspection and testing of products purchased for use in nuclear power plant structures, systems, and components.	All action suspended; will be withdrawn.
*100-216.00	Guidance on Management Controls/ Quality Assurance, Requirements For Operation, Chemical Safety, and Fire Protection for Fuel Cycle Facilities	Proposed guidance 54 FR 11590 3/21/89 Notice 57 FR 35607 8/10/92	MRC proposed four branch technical positions on management controls/quality assurance, requirements for operation, chemical safety, and fire protection for fuel cycle facilities. MRC issued the revised final "Technical Position on Fire Protection for Fuel Cycle Facilities." Final technical position papers on the other topics have not been issued yet.	Final action on other technical position papers undetermined.
100-222.00	Code and Standards for Nuclear Power Plants 10 CFR 50	Planned NPRM 57 FR 17736 4/27/92	MRC will incorporate by reference Subsection IWE, "Requirements for Class MC Components of Light-Water Cooled Power Plants," and Subsection IWL, "Requirements for Class CC Concrete Components of Light-Water Cooled Power Plants," of Sect. XI of the ASME Code.	NPRM 4/93.
100-224.00	Primary Reactor Containment Leakage Testing for Water-Cooled Reactors 10 CFR 50	NPRM 51 FR 39538 10/29/86 Regulatory Agenda 57 FR 17747 4/27/92	MRC proposes to update and revise the 1973 criteria for preoperational and periodic pressure testing for leakage of primary containment boundaries of water-cooled power reactors in order to eliminate inconsistencies and obsolete requirements.	Final rule sent to Commission 10/91; awaiting their action on it.
*100-233.00	Acceptability of Plant Performance for Severe Accidents 10 CFR 50	ANPRM 57 FR 44513 9/28/92	MRC announces that it is considering an amendment to its regulations for future light water reactors to address the ability of the plants to withstand challenges from phenomena associated with severe core damage accidents.	Comments by 12/28/92.
*100-249.00	Requirements for Possession of Industrial Devices 10 CFR 31 10 CFR 32	NPRM 56 FR 67011 12/27/91 Regulatory Agenda 57 FR 17748 4/27/92	MRC proposes to amend the regulations for the possession of industrial devices containing byproduct material to require device users to report to the NRC on a periodic basis if the device is still in use or to whom the device has been transferred to assure that devices are not improperly transferred or inadvertently discarded.	Final rule 12/92.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
100-252.00	Import and Export of Radioactive Waste 10 CFR 110	ANPRM 55 FR 4181 2/7/90 NPRM 57 FR 17859 4/28/92	NRC proposes to amend its licensing requirements regarding the import and export of radioactive wastes to conform U.S. policies to the international voluntary Code of Practice to guide nations in the development and harmonization of policies and laws on the international transboundary movement of radioactive waste.	Final rule 4/93.
*100-256.00	U-AVLIS Uranium Enrichment - Permits for Access to Restricted Data 10 CFR 725	NPRM 55 FR 15237 4/23/90 Regulatory Agenda 57 FR 16689 4/27/92	DOE proposes to amend the regulations concerning permits for access to uranium isotope separation restricted data by updating category C-24 to include the U-AVLIS technology and requiring private sector permit applicants to pay \$100,000 for an access permit. The purpose of the amendments is to encourage private sector participation in the government's uranium enrichment program.	Rulemaking withdrawn.
100-258.00	Emergency Preparedness Regulations 10 CFR 50	NOA 56 FR 12734 3/27/91 Planned NPRM 57 FR 17738 4/27/92	NRC will propose a rule to amend the regulations concerning those portions of emergency plans which cannot be exercised prior to issuance of a Part 52 combined license. This rulemaking will be accomplished on a "high priority basis."	NPRM sent to Commission 4/90; awaiting their action on it.
100-258.01	Emergency Preparedness Regulations 10 CFR 50	Planned NPRM 57 FR 17738 4/27/92	NRC will propose to clarify the linkage between the need for "reasonable assurance that adequate protective measures can and will be taken in the event of a radiological emergency" indicated in Sect. 50.47(a) and 16 planning standards outlined in Sect. 50.47(b). In addition, this rule will clarify the term "range of protective" actions and the issues of monitoring of evacuees, actions for recovery and reentry, notification of the public, evacuation time estimates, and exercise frequency.	NPRM on hold. May be withdrawn.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*100-265.00	Nuclear Plant License Renewal - Environmental Effects 10 CFR 51	ANPRM 55 FR 29964 7/23/90 NOI 55 FR 29967 7/23/90 NPRM 56 FR 47016 9/17/91 NOA 56 FR 47500 9/19/91 Regulatory Agenda 57 FR 17749 4/27/92	NRC proposes to amend its regulations to add provisions concerning the scope of environmental effects which would be addressed by the Commission in conjunction with applications for operating license renewal for nuclear power plants.	Final rule 3/94.
*100-275.00	Import and Export of Nuclear Equipment and Material 10 CFR 110	Notice 55 FR 53596 12/31/90 Planned NPRM 57 FR 17740 4/27/92	NRC will propose amendments to: (1) permit the expedited import and export of certain nuclear material where no significant proliferation risks are involved, (2) streamline the procedures for public participation in NRC's licensing process, (3) delete from the lists of restricted destinations those countries that signed the Non-Proliferation Treaty, (4) add Namibia to the general license allowing import of their uranium, and (5) make other minor changes. NRC will also propose that the export of heavy water to Canada and low-enriched uranium to EURATOM and to Japan for enrichment will no longer require license application review by the Executive Branch.	Direct final rule 12/92. NPRM 1/93.
*100-276.00	Timeliness in Decommissioning of Material Facilities 10 CFR 30 10 CFR 40 10 CFR 70 10 CFR 72	Planned NPRM 57 FR 17742 4/27/92	NRC will propose to require decontamination and decommissioning of material facilities within a fixed period of time after cessation of operations.	NPRM 11/92. Final rule 10/93.
*100-283.00	Regulatory Guides	NOA 57 FR 43036 9/17/92	NRC announces the availability of revision 3 to Regulatory Guide 1.101, "Emergency Planning and Preparedness for Nuclear Power Reactors."	Comments at any time.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EN-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*100-284.00	Radiation Protection of the Public and Environment 10 CFR 834	Notice 56 FR 67066 12/27/91 Planned NPRM 57 FR 16687 4/27/92	DOE will propose radiation protection requirements for the public and environment for DOE and DOE contractor operations, including a dose limitation system for the protection of the public, requirements for liquid discharges, reporting and monitoring requirements, and residual radioactive material requirements.	<u>NPRM 11/92.</u>
*100-288.00	Decommissioning Recordkeeping and License Termination - Documentation 10 CFR 30 10 CFR 40 10 CFR 70 10 CFR 72	NPRM 56 FR 50524 10/7/91 Regulatory Agenda 57 FR 17750 4/27/92	NRC proposes to require licensees to prepare and maintain additional documentation for the purpose of ensuring proper decontamination and decommissioning procedures.	<u>Final rule 12/92.</u>
100-289.00	Radiation Protection for Occupational Workers 10 CFR 835	NPRM 56 FR 64334 12/9/91 Notice 56 FR 67066 12/27/91 Regulatory Agenda 57 FR 16690 4/27/92	DOE proposes primary standards that would be applicable to the control of radiation exposures to occupational workers from normal operations under the control of DOE and DOE contractor personnel.	Final rule 12/92.
100-290.00	Nuclear Safety Management 10 CFR 830	NPRM 56 FR 64316 12/9/91 Clarification of NPRM 57 FR 20796 5/15/92	DOE proposes the addition of a new part to its regulations establishing a body of rules for DOE contractor and subcontractor activities that will form the basic requirements for ensuring nuclear safety at DOE facilities. The body of rules will include conduct of operations, occurrence reporting, safety analysis and requirements, training, certification, and maintenance.	Final rule 7/93.
*100-291.00	Agreement State Programs - Compatibility with NRC Programs	Request for comments 56 FR 66457 12/23/91	NRC is reviewing its practices concerning the compatibility of Agreement State Programs with NRC Regulatory Programs and seeks recommendations on how to assure this. recommendations on how to assure this.	Report and response to comments sent to Commission 7/92; awaiting their direction. Action expected by 1/93.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*100-293.00	MUREG Reports Availability	NOA 57 FR 33374 7/28/92	MRC announces the availability of two documents: (1) draft MUREG-1465, "Accident Source Terms for Light-Water Nuclear Power Plants," and (2) draft MUREG/CR-5849, "Manual for Conducting Radiological Surveys in Support of License Termination."	Comments on MUREG/CR-5849 by 1/28/93.
		NOA 57 FR 39708 9/1/92	MRC announces the availability of MUREG-1451, "Staff Technical Position (STP) on Investigations to Identify Fault Displacement Hazardous and Seismic Hazards at a Geologic Repository."	
100-294.00	Statutory Authority for Purposes of Criminal Enforcement 10 CFR 11 10 CFR 19-21 10 CFR 25-26 10 CFR 30-35 10 CFR 39-40 10 CFR 50 10 CFR 52-55 10 CFR 60-61 10 CFR 70-75 10 CFR 95 10 CFR 110 10 CFR 140 10 CFR 150	NPRM 57 FR 222 1/3/92	MRC proposes to amend its regulations to clarify the applicability of the criminal penalty provisions of the AEA to certain regulations.	Final rule 1/93.
100-297.00	Nuclear Safety Management - Phase II 10 CFR 830	Planned NPRM 57 FR 16688 4/27/92	DOE will propose Phase II rules, applicable to DOE contractor and subcontractor activities, to ensure nuclear safety at DOE facilities. The rules relate to safety concern management, reactor design criteria, seismic and environmental qualifications, fire protection, personnel training, emergency preparedness, safety responsibility, and contractor oversight.	NPRM 3/93.
*100-298.00	Physical Protection Requirements at Fixed Sites 10 CFR 73	NPRM 57 FR 22670 5/29/92	MRC proposes to amend its regulations to reduce the regulatory burden on nuclear licensees. The amendments address the frequency of reporting information and core cooling system analysis for operating power reactors, clarify and update regulations, and remove unnecessary regulatory requirements.	Final rule 3/93.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EN-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*100-299.00	Reducing the Regulatory Burden on Nuclear Licensees 10 CFR 20 10 CFR 50	NPRM 57 FR 27187 6/18/92 Final rule 57 FR 39353 8/31/92	NRS amends its regulations to reduce the regulatory burden on nuclear licensees. The amendments address the frequency of reporting information and emergency core cooling system analysis for operating power reactors, clarify and update regulations, and remove unnecessary regulatory requirements.	<u>Effective 10/1/92.</u>
*100-300.00	Nuclear Reactor Event Reporting - Minor Amendments 10 CFR 50	NPRM 57 FR 28642 6/26/92 Final rule 57 FR 41378 9/10/92	NRC amends regulations in 10 CFR 50 to make minor modifications to the current nuclear power reactor event reporting requirements.	<u>Effective 10/13/92.</u>
*100-302.00	State Regulations for Control of Radiation	NOA 57 FR 41144 9/9/92	The FDA announces the availability of volume 1 of "Suggested State Regulations for Control of Radiation," eighth edition. These model regulations serve as a means of assisting the states in issuing regulations that are consistent with federal radiation control standards.	<u>Comments at any time.</u>
*100-303.00	Nuclear Power Plants - Reactor Site Criteria 10 CFR 100 10 CFR 50 10 CFR 52	NPRM 57 FR 47802 10/20/92	In response to a petition, NRC proposes to update the criteria used in decisions regarding power reactor siting including geologic, seismic, and earthquake engineering considerations for future nuclear power plants. The Commission also proposes to deny the remaining issue in a petition filed by Free Environment, Inc. and others.	<u>Comments by 2/17/93.</u>
*100-304.00	Licensing of Source Material 10 CFR 40	ANPRM 57 FR 48749 10/28/92	NRC is considering amending its regulations governing the licensing of source material and mill tailings to improve control of source material and to update the applicable requirements to conform with the revised standards for protection against radiation.	<u>Comments by 1/26/93.</u>
URANIUM MILL TAILINGS RADIATION CONTROL ACT				
*930-029.00	Groundwater Protection Standards for Inactive Uranium Tailing Sites 40 CFR 192	NPRM 52 FR 36000 9/24/87 Regulatory Agenda 57 FR 17412 4/27/92	EPA proposes standards for preventing groundwater contamination at inactive uranium processing sites. The rule will replace the groundwater provisions of the final rule of 1/5/83 for remedial action.	<u>Final rule 12/92.</u>

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
930-034.00	Uranium Mill Tailing Sites - Remedial Action Program and Annotation of Land Records 10 CFR 764	NPRM 54 FR 29732 7/14/89 Regulatory Agenda 56 FR 53248 10/21/91	DOE proposes to clarify the obligation of certain states to annotate local land records so as to ensure that future purchasers of remediated properties will be notified of the extent of the remedial work.	Final rule 2/93.
930-038.00	Health and Environmental Standards for Uranium Mill Tailings 40 CFR 192	ANPRM 56 FR 67569 12/31/91	EPA will propose to amend Subpart D to require enforceable closure deadlines and appropriate monitoring for uranium mill tailing disposal sites that are licensed by the NRC or one of its Agreement States.	NPRM 11/92.
TOXIC SUBSTANCES CONTROL ACT				
Containerized Liquids in Landfills -- RU# 840-024				
Toxic Chemical Release Reporting - Addition of Chemicals; SNUR -- RU# 190-064				
920-053.00	Negotiated Consent - Procedural Test Rules 40 CFR 790	Planned NPRM 57 FR 17396 4/27/92	EPA plans to propose appropriate procedural changes to reduce the resources required for consent order negotiation.	NPRM 12/92.
920-064.00	Comprehensive Assessment Information Rule 40 CFR 704	Planned NPRM 57 FR 17399 4/27/92	EPA is considering revision of the Comprehensive Assessment Information Rule (CAIR) to establish exemptions for small and "de minimis" volumes, refine trade name reporting requirements, reduce certain advance substantiation requirements for Confidential Business Information (CBI) claims, and define processing activities using processor subclasses.	NPRM 1/93.
920-076.00	Termination of PCBs Storage and Disposal Approvals 40 CFR 761	NPRM 55 FR 46470 11/2/90 Regulatory Agenda 57 FR 17401 4/27/92	EPA proposes a rule establishing criteria and procedures for the suspension and revocation of PCB storage and disposal approvals.	Final rule on hold.
*920-092.00	Chemical Test Data	Notice 57 FR 45056 9/30/92	EPA announces the receipt of chemical test data on tributyl phosphate and commercial hexane submitted pursuant to a final test rule.	

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*920-096.01	PCBs - Commerce Exemptions 40 CFR 750 40 CFR 761	NPRM 57 FR 7349 3/2/92	EPA proposes to grant three and deny two petitions for exemption from the prohibition against the manufacture, processing, and distribution in commerce of PCBs. EPA also proposes to amend the interim procedural rules to require submission of a certified letter at least six months prior to the expiration date of an exemption for which the petitioner wants the exemption to continue.	<u>Final rule 3/93.</u>
920-113.00	SARA Section 110 Chemicals Generic Test Rule 40 CFR 799	Planned NPRM 57 FR 17396 4/27/92	This regulation will set forth the policies and procedures for using the TSCA Sect. 4 testing authority to obtain toxicity and chemical fate testing to fill certain data needs identified in toxicity profiles of chemicals prepared pursuant to SARA.	NPRM 7/93.
*920-119.00	PCBs - Wet Weight, Dry Weight Clarification 40 CFR 761	NPRM 55 FR 12866 4/6/90 Regulatory Agenda 57 FR 17402 4/27/92	EPA proposes to amend the PCB regulations final rule of 7/10/84 (49 FR 28171) by adding the phrase "on a dry weight basis" to Sect. 761.1(b).	<u>Final rule and clarification 12/92; at OMB.</u>
*920-123.00	Drinking Water Chemicals Proposed Test Rule 40 CFR 799	NPRM 55 FR 21393 5/24/90 NOA 57 FR 14371 4/20/92	EPA proposes a test rule under Sect. 4 of TSCA that would require manufacturers and processors to test the following substances for certain health effects: chloroethane, 1,1-dichloroethane, 1,1,2,2-tetrachloroethane, n-propylbenzene, and 1,3,5-trimethylbenzene. EPA also proposes a new testing guideline for a 14-day repeated dose oral toxicity study.	<u>Final rule 12/92.</u>
920-125.00	PCBs Disposal Amendments 40 CFR 761	ANPRM 56 FR 26738 6/10/91 NOA 56 FR 26745 6/10/91 Planned NPRM 57 FR 17398 4/27/92	EPA is considering amending its TSCA PCB disposal regulations to address (1) alternative disposal methods to those currently permitted which do not pose an unreasonable risk of injury to human health and the environment, (2) classes of PCBs not contemplated by the disposal regulations, and (3) regulatory requirements for existing classes of PCBs and PCB items.	NPRM 1/93.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*920-127.00	Environmental Hazard Communication Rule CFR undetermined	Planned ANPRM 57 FR 17394 4/27/92	The Office of Toxic Substances will propose to require Environmental Hazard Communication (EHC) with the sale of commercial chemicals, probably in the form of requiring that environmental information be included on Material Safety Data Sheets (MSDS) whenever the information is available.	Action 4/93; rulemaking may be withdrawn and substituted with a voluntary program.
*920-129.00	TSCA Section 4(a)(1)(B) Policy ("Exposure" Rule) 40 CFR 799	Proposed policy statement 56 FR 32294 7/15/91 Regulatory Agenda 57 FR 17400 4/27/92	EPA proposes standards and criteria it intends to use in interpreting its legal authority to make findings under TSCA Sect. 4(a)(1)(B)(i) for determining substantial production, release to the environment in substantial quantities, and substantial or significant human exposure.	Final policy statement 12/92.
*920-130.00	Metabolism and Pharmacokinetic Test Guideline 40 CFR 798	NPRM 56 FR 32537 7/17/91	EPA proposes to establish a test guideline for generating metabolism and pharmacokinetic data. This joint guideline would harmonize the pharmacokinetics testing guidelines of the Office of Toxic Substances and the Office of Pesticide Programs and assist EPA in developing health effects test data standards for testing chemicals under TSCA and FIFRA.	Final rule 1/93.
*920-132.00	PCB Transformer Reclassification Rule 40 CFR 761	Planned NPRM 57 FR 17399 4/27/92	EPA will modify the current reclassification requirements of 50 degrees centigrade temperature and 90-day testing for PCB transformers because results of a preliminary analysis indicate many transformers never reach the required temperature but still reduce PCB concentrations to risk-free levels.	NPRM 12/92. Final rule 12/93.
HAZARDOUS MATERIALS TRANSPORTATION ACT				
Transportation Regulations - Compatibility with IAEA -- RU# 100-157				
400-014.00	Railroad Shipment of Hazardous Material - Use of Cargo Tanks	ANPRM 50 FR 18278 4/30/85 Notice extending existing approvals 56 FR 8388 2/28/91	The Federal Railroad Administration and the RSPA are considering development of safety standards to permit the use of cargo tanks, portable tanks, IM portable tanks, and multi-unit tank car tanks in trailers on flatcar and containers-on-flatcar service.	Extension of existing approvals effective 3/1/91. NPRM on hold indefinitely pending result of research.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
400-039.00	Pipeline Operator Qualifications 49 CFR 192 49 CFR 195	ANPRM 52 FR 9189 3/23/87 Planned NPRM 57 FR 17141 4/27/92	RSPA is considering the need to develop additional regulations governing training and qualification of persons that operators hire to design, construct, operate, or maintain pipeline facilities used in transport of gas or hazardous materials.	NPRM 4/93.
400-040.00	Transportation of Hazardous Materials - Miscellaneous Amendments 49 CFR 171-178	NPRM 56 FR 37505 8/7/91 Regulatory Agenda 57 FR 17149 4/27/92	RSPA proposes several amendments to update and simplify the Hazardous Materials Regulations.	Final rule 1/93.
400-044.00	Hazardous Materials - Intrastate Commerce 49 CFR 171-179	ANPRM 52 FR 24195 6/29/87 Planned NPRM 57 FR 17141 4/27/92	DOT is considering extending the application of its hazardous material regulation to all intrastate transportation of hazardous materials in commerce.	NPRM 1/93.
400-057.00	Railroad Shipment of Hazardous Waste - Defects of Tank Car Tanks 49 CFR 173	ANPRM 52 FR 46510 12/8/87 Planned NPRM 57 FR 17143 4/27/92	This would clarify existing inspection requirements for tank car tanks; add new inspection requirements for thermal protection on tank car tanks; permit the use of new inspection techniques for tank cars transporting low vapor pressure commodities in lieu of periodic hydrostatic retests; and establish minimum in-service tank thickness requirements.	NPRM 12/92. Final rule 12/93.
*400-061.00	Highway Routing Standards for Hazardous Materials 49 CFR 397	ANPRM 53 FR 11618 4/7/88 NPRM 57 FR 39522 8/31/92	RSPA proposes routing criteria, requirements, and methodologies for states and Indian tribes to follow when analyzing alternative routes for highway transport of non-radioactive hazardous materials.	Final rule <u>undetermined</u> .

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*400-063.00	Excavation Damage-Prevention Programs for Pipelines 49 CFR 192 49 CFR 195	NPRM 53 FR 24747 6/30/88 Regulatory Agenda 57 FR 17148 4/27/92	OPS, RSPA, and DOT propose to require operators of buried onshore gas, hazardous liquid, and carbon dioxide pipelines to conduct excavation damage prevention programs in accordance with criteria adopted previously for gas pipeline damage prevention programs.	<u>Interim final rule 1/93.</u> <u>Supplemental NPRM 1/93.</u>
*400-064.00	Maps and Records of Pipeline Location and Characteristics - State Notification 49 CFR 192 49 CFR 195	Planned NPRM 57 FR 17142 4/27/92	As part of a continuing policy to adopt similar safety requirements for gas and hazardous liquid pipelines, this action will propose to equalize the requirements that gas and liquid operators keep maps and records to show the location and other characteristics of pipelines and will require them to provide this information to state agencies upon request.	<u>NPRM 12/92. Final rule</u> <u>12/93.</u>
400-073.00	Implementation of the ICAO's Technical Instructions 49 CFR 171 49 CFR 172 49 CFR 175	NPRM 55 FR 46839 11/7/90 Supplemental NPRM 57 FR 1891 1/16/92 Regulatory Agenda 57 FR 17151 4/27/92	RSPA proposes to amend its regulations in order to permit the offering, acceptance, and transportation by aircraft of hazardous materials shipments conforming to the most recent ICAO technical instructions. RSPA also issues a supplemental proposed rule to amend the HMR by adding four provisions relating to the transport of hazardous materials by aircraft.	Final rule 1/93.
400-080.00	Marine Transport of Bulk Solid Hazardous Materials 49 CFR 148	ANPRM 54 FR 18308 4/28/89 Notice 55 FR 11481 3/28/90 Regulatory Agenda 57 FR 17047 4/27/92	DOT will propose to incorporate into 46 CFR 148 the Coast Guard's and the International Maritime Organization's requirements for shipping certain frequently carried hazardous bulk solids, to eliminate paperwork for both the Coast Guard and the shipping industry and to harmonize domestic regulations with international standards.	NPRM 1/93. Final rule 1/94.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.

* Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RUM# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
400-093.00	Transportation Regulations - Compatibility with IAEA 49 CFR 171-178	NPRM 54 FR 47454 11/14/89 NOA 54 FR 48054 11/20/89 Regulatory Agenda 57 FR 17150 4/27/92	RSPA proposes to revise its regulations to make them compatible with those of the IAEA for the safe transport of radioactive materials (see comparable NRC regulation RU# 100-157).	Final rule 1/93.
400-095.00	Elevated Temperature Materials 49 CFR 171 49 CFR 172 49 CFR 173	NPRM 54 FR 38930 9/21/89 Final rule 56 FR 49980 10/2/91 Compliance date delayed 56 FR 67542 12/31/91	RSPA amends the HMR to regulate materials which pose a hazard due to their being transported at elevated temperatures. Materials include those in a liquid phase having temperatures at or above 212 degrees F or having a flash point at or above 100 degrees F and those in a solid phase having temperatures at or above 464 degrees F.	Effective 3/30/92. Classification and hazard communication requirements effective 10/1/93. Placarding requirements effective 10/1/94. Packaging closure requirements effective 3/30/95.
400-097.00	Transportation of Hydrogen Sulfide by Pipeline 49 CFR 192	ANPRM 54 FR 24361 6/7/89 NPRM 56 FR 11490 3/18/91 Regulatory Agenda 57 FR 17151 4/27/92	RSPA proposes to: (1) prohibit operators from transporting in a transmission line downstream of gas processing plants, sulfur recovery plants, or storage fields, natural gas containing more than a designated amount of H ₂ S; (2) require that the release of a designated excess of H ₂ S be reported to DOT; and (3) require that onshore/offshore gathering lines carrying a designated excess of H ₂ S have a contingency plan in place in case of a release of the gas.	Final rule 12/92.
400-099.00	Gas Pipelines Corrosion 49 CFR 192	NPRM 54 FR 27041 6/27/89 Regulatory Agenda 57 FR 17150 4/27/92	RSPA proposes to require gas pipeline operators who must now inspect for corrosion on buried metallic pipe that is exposed to investigate further to determine the full extent of any corrosion that is found.	Final rule 12/92.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*400-110.00	Hydrostatic Pressure Testing of Hazardous Liquid Pipelines 49 CFR 195	NPRM 56 FR 23538 5/22/91 Regulatory Agenda 57 FR 17147 4/27/92	RSPA proposes to extend hydrostatic testing or the alternative reduction in maximum operating pressure to all hazardous liquid steel pipelines where maximum operating pressure has not been established in accordance with the requirements of 49 CFR 195.	<u>Final rule 1/93.</u>
*400-112.00	Operation and Maintenance Procedures for Pipelines 49 CFR 192 49 CFR 195	NPRM 54 FR 46685 11/6/89 Regulatory Agenda 57 FR 17148 4/27/92	OPS proposes to clarify and delineate the items that must be addressed in procedures for operations and maintenance of gas pipelines facilities to assure that operators take timely and appropriate actions under normal or abnormal conditions. Operators would also be required to establish procedures for personnel safety in trenches containing hazardous vapor or gas.	<u>Final rule 1/93.</u>
*400-113.00	Gas Pipeline Operating Above 72 Percent of Specified Minimum Yield Strength 49 CFR 192	ANPRM 54 FR 50780 12/11/89 Correction 54 FR 51816 12/18/89 Withdrawal of ANPRM 57 FR 41119 9/9/92	A grandfather clause allows certain steel gas pipelines to operate at hoop stress levels above 72 percent of the specified minimum yield strength (SYMS) of the pipe - the highest operating hoop stress permitted on steel pipe in all other regulated gas pipelines. The Office of Pipeline Safety is concerned about this possible disparity in protection and invites public comments to determine an appropriate course of action.	<u>Effective immediately.</u>
400-118.00	Specifications for Tank Car Tanks 49 CFR 173	ANPRM 55 FR 20242 5/15/90 Supplemental ANPRM 55 FR 35327 8/29/90 Planned NPRM 57 FR 17144 4/27/92	RSPA considers amendments to improve the level of safety of tank car tanks through operational changes, design modifications, and retrofitting requirements. In a supplement to its 5/15/90 ANPRM, RSPA considers four further amendments to its tank car tank specifications.	NPRM 12/92.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.

* Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*400-120.00	Hazardous Liquid Pipelines Operating at 20 Percent or Less of Specified Minimum Yield Strength 49 CFR 195	ANPRM 55 FR 45822 10/31/90 Planned NPRM 57 FR 17144 4/27/92	RSPA solicits comments and information to use in determining whether and to what extent to remove the exception in the pipeline safety standards governing hazardous liquid pipelines which says that they do not apply to pipelines operated at 20 percent or less of the specified minimum yield strength of the pipe.	<u>NPRM 12/92. Final 12/93.</u>
*400-121.00	Excess Flow Valve Installation on Service Lines 49 CFR 192	ANPRM 55 FR 52188 12/20/90 Planned NPRM 57 FR 17142 4/27/92	The Office of Pipeline Safety seeks public participation in determining whether operators should be required to install excess flow valves on gas service lines to improve safety and reduce the frequency of incidents. Flow valves are designed to shut off automatically when a line is broken.	<u>NPRM 1/93.</u>
400-125.00	Marine Pollutants 49 CFR 171-174 49 CFR 176	NPRM 57 3854 1/31/92 Regulatory Agenda 57 FR 17149 4/27/92	RSPA proposes to list and regulate, in all modes of transportation, materials identified as marine pollutants by the International Maritime Organization. This rule is necessary to implement the provisions of Annex III of the 1973 International Convention for the Prevention of Pollution from Ships.	Final rule 1/93.
400-126.00	Hazardous Materials Identification Systems 49 CFR 172	ANPRM 57 FR 24532 6/9/92	RSPA will propose methods to improve the current system of placarding vehicles and methods for establishing and operating a central reporting system and computerized telecommunications data center, and will consider the benefits of requiring carriers to establish emergency response telephone systems.	NPRM undetermined.
400-127.00	Intermediate Bulk Containers for Hazardous Materials 49 CFR 171 49 CFR 172 49 CFR 173 49 CFR 178 49 CFR 180	NPRM 57 FR 36694 8/14/92	RSPA proposes to adopt requirements for the construction, maintenance, and use of intermediate bulk containers for transporting hazardous materials. The proposal is based on specification and performance standards contained in the U.N. Recommendation on Transport of Dangerous Goods and the commodity assignments set forth in the International Maritime Dangerous Goods Code.	Final rule 8/93.
*400-128.00	Gas Pipeline Safety Standards 49 CFR 192	NPRM 57 FR 39572 8/31/92	RSPA proposes to change miscellaneous gas pipeline safety standards to provide clarity, eliminate unnecessary or overly burdensome requirements, and foster economic growth.	<u>Final rule undetermined.</u>

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*400-129.00	Tank Car Tanks and Cargo Tank Motor Vehicles - Attendance Requirements 49 CFR 174 49 CFR 177	NPRM 57 FR 42466 9/14/92	RSPA proposes to allow the use of signalling systems to satisfy the attendance requirements for unloading tank cars and loading cargo tank motor vehicles. RSPA also proposes to allow tank cars containing hazardous materials to remain standing with unloading connections attached when no product is being transferred.	<u>Comments by 12/14/92.</u>
*400-130.00	Routing of Class 7 Radioactive Materials; Preemption Determinations	Interim final rule 57 FR 44129 9/24/92	The FDA issues an interim final rule to incorporate into its regulations RSPA's regulations on (1) the preemption determination and waiver of preemption procedures and (2) the routing requirements for Class 7 radioactive materials.	<u>Effective 9/24/92.</u>
*400-131.00	Federal Preemption of State, Local, and Indian Tribe Requirements Under HMTA	Notice 57 FR 45424 10/1/92	DOT publishes a subject-matter index and table summarizing RSPA inconsistency rulings, non-preemption determinations, and a waiver of preemption determinations, and all court decisions which discuss preemption issues under HMTA.	
*400-132.00	Formal Interpretation of HMTA Regulations 49 CFR 107 49 CFR 171-177	Notice 57 FR 48739 10/28/92	RSPA publishes a formal interpretation, rendered by the Chief Counsel of RSPA, of the registration requirements for offerors and transporters of hazardous materials subject to the HMR issued under HMTA. The interpretation describes activities which subject an offeror or transporter to the HMTA hazardous materials registration requirements.	
OCCUPATIONAL SAFETY AND HEALTH ACT				
780-009.00	Occupational Exposure to Methylene Chloride 29 CFR 1910 29 CFR 1915 29 CFR 1926	ANPRM 51 FR 42257 11/24/86 NPRM 56 FR 57036 11/7/91 Corrections 57 FR 387 1/6/92	OSHA proposes to amend its existing regulation for occupational exposure to methylene chloride to reduce the 8-hour TWA exposure limit from 500 ppm to 25 ppm.	Final rule 9/93.
*780-011.00	Respiratory Protection 29 CFR 1910.134 29 CFR 1915.152 29 CFR 1918.102 29 CFR 1926.103	ANPRM 47 FR 20803 5/14/82 Planned NPRM 57 FR 16987 4/27/92	OSHA is reviewing current standards for respiratory protection and intends to propose revisions following analysis of the standards.	<u>NPRM 2/93. Final rule 2/94.</u>

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NDA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
780-020.00	Construction Standards - Safety Standards for Scaffolds 29 CFR 1926	NPRM 51 FR 42680 11/25/86 Regulatory Agenda 57 FR 16993 4/27/92	OSHA proposes to revise the construction industry safety standards for scaffolds to regulate the design, construction, and use of all scaffolds in construction.	Final rule 11/92.
780-021.00	Construction Industry - Safety Standards for Fall Protection 29 CFR 1926	NPRM 52 FR 42718 11/25/86 Reopening of rulemaking 57 FR 34656 8/5/92	OSHA proposes to revise the construction industry safety standards to regulate the design and use of fall protection systems and procedures. The proposed revisions would address exposure hazards by using performance criteria rather than specification standards.	Final rule 2/93.
780-025.00	Occupational Exposure to 2-Methoxyethanol, 2-Ethoxyethanol and Their Acetates 29 CFR 1910.1000	ANPRM 52 FR 10586 4/2/87 Planned NPRM 57 FR 16988 4/27/92	OSHA plans to develop standards for occupational exposure to 2-methoxyethanol, 2-ethoxyethanol, and their acetates, all of which are compounds used as industrial solvents.	NPRM 12/92.
*780-029.00	Occupational Exposure to Cadmium 29 CFR 1910 29 CFR 1915 29 CFR 1926	NPRM 55 FR 4052 2/6/90 Reopening of rulemaking 56 FR 47348 9/18/91 Final rule 57 FR 42102 9/14/92 Final rule amendment 57 FR 49272 10/30/92	OSHA establishes an 8-hour time-weighted average permissible exposure limit (TWA PEL) of 5 µg/m ³ cadmium for general industry, agriculture, maritime and the construction industry, and a separate engineering control air limit (SECAL) of 25 µg/m ³ cadmium for certain small industries. OSHA also establishes ancillary employee protection provisions dealing with monitoring, recordkeeping, hazard communication, and personal protective equipment.	Effective 12/14/92.
			OSHA amends the 9/14/92 final rule to add OMB control numbers for the information collection requirements submitted to and cleared by OMB.	Amendment effective 12/14/92. OMB clearance expires 9/30/95.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
780-030.00	Air Contaminants 29 CFR 1910	NPRM 53 FR 20960 6/7/88 Final rule 54 FR 2332 1/19/89 Corrections 57 FR 29204 7/1/92	OSHA amends its air contaminants standard including Tables Z-1, Z-2, and Z-3. Permissible exposure limits (PELs) are revised so that 212 PELs are more protective, 164 new PELs are set, short-term exposure limits are included, skin designations are established, and ceiling limits are added.	Final rule effective 3/1/89. Startup compliance for combination of control 9/1/89, for feasible engineering control
*780-041.00	Generic Standard for Exposure Monitoring 29 CFR 1910	ANPRM 53 FR 37591 9/27/88 Planned NPRM 57 FR 16986 4/27/92	OSHA is evaluating the feasibility and usefulness of adoption of a generic standard on exposure monitoring for employees exposed to toxic substances.	<u>Decision on whether to proceed with NPRM 1/93.</u>
*780-042.00	Medical Surveillance Program for Employees 29 CFR 1910	ANPRM 53 FR 37595 9/27/88 Planned NPRM 57 FR 16986 4/27/92	OSHA is evaluating the feasibility and usefulness of adoption of a generic standard on medical surveillance programs for employees exposed to toxic substances or hazardous physical agents.	<u>Decision on whether to regulate 12/92.</u>
780-044.00	Asbestos Short-Term Exposure Limit 29 CFR 1910 29 CFR 1926	NPRM 55 FR 29712 7/20/90 Regulatory Agenda 57 FR 16998 4/27/92	In response to litigation, OSHA proposes to lower the PEL to 0.1 f/cc, set additional communication and notification requirements, require oversight of all construction operations, and more explicitly define the exemptions from the negative-pressure enclosure requirement.	Final rule 12/92.
780-045.00	Hazardous Waste Training Course Certification 29 CFR 1910	NPRM 55 FR 2776 1/26/90 NOA; reopening of record 57 FR 4858 2/10/92 Regulatory Agenda 57 FR 16998 4/27/92	DOL proposes accreditation procedures for training programs set up under the Hazardous Waste Operations and Emergency Response final rule of 3/9/89 for employees involved in clean-up operations at uncontrolled hazardous waste sites being cleaned up under government mandate and for employees involved in certain hazardous waste treatment, storage, and disposal operations. This rule does not propose to accredit training programs for employees engaged in emergency response activities.	Final rule 12/92.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.

* Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
780-047.00	Electrical Protective Equipment; Generation, Transmission, Distribution 29 CFR 1910	NPRM 54 FR 4974 1/31/89 Regulatory Agenda 57 FR 16994 4/27/92	OSHA proposes a standard for work practices used in operation and maintenance of electric power generation, transmission, and distribution facilities. Revisions to protective equipment requirements are included.	Final rule 7/93.
780-051.00	Confined Spaces - Permits and Safety Requirements 29 CFR 1910.146	NPRM 54 FR 24080 6/5/89 Regulatory Agenda 57 FR 16993 4/27/92	OSHA proposes to establish safety requirements, including a permit system, for entry into those confined spaces which OSHA has identified as posing special dangers for entrants due to their configuration or other features.	Final rule 12/92.
780-052.00	Methods of Compliance 29 CFR 1910	NPRM 54 FR 23991 6/5/89 Regulatory Agenda 57 FR 16992 4/27/92	OSHA proposes to modify the existing provisions for controlling employee exposures to toxic substances found in 29 CFR 1910.1000(e) and 1910.134(a)(1). The agency proposes to incorporate additional flexibility in its requirements by setting forth the circumstances under which respiratory protection may be used in lieu of engineering controls.	Final rule 12/92.
*780-054.00	Personal Protective Equipment 29 CFR 1910	NPRM 54 FR 33832 8/16/89 Regulatory Agenda 57 FR 16995 4/27/92	OSHA proposes to revise portions of the general industry safety standards addressing personal protective equipment. The criteria for personal protective equipment for eye, face, head, and foot would be revised to reflect improved developments in these types of equipment.	Final rule 4/93.
780-057.00	General Industry - Personal Fall Protective Equipment 29 CFR 1910	NPRM 55 FR 13423 4/10/90 Regulatory Agenda 57 FR 16993 4/27/92	OSHA proposes to amend the standards for personal protective equipment for general industry by adding criteria pertaining to personal fall protection systems, including fall arrest systems, work positioning systems, travel restricting systems, and fall protection systems for climbing.	Final rule 12/92.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
780-058.00	General Industry Standards - Walking and Working Surfaces 29 CFR 1910	NPRM 55 FR 13360 4/10/90 Regulatory Agenda 57 FR 16997 4/27/92	OSHA proposes to revise its general industry standards for workplace walking and working surfaces in order to focus on the hazards that can result in trips, slips, and falls causing serious and fatal injuries. This proposed standard will also eliminate ambiguities and redundancies in the existing Subpart D standards and address areas not covered in the existing standards.	Final rule 12/92.
780-059.00	Recording and Reporting Occupational Injuries and Illnesses 29 CFR 1904	Planned NPRM 57 FR 16990 4/27/92	OSHA requires covered employers to record all work-related fatalities, illnesses, and certain injuries and to report summary data if selected to participate in the BLS annual survey. BLS and OSHA have tested several data collection vehicles and procedures and are revising the recordkeeping guidelines to improve the usefulness of the survey outputs.	NPRM 1/93.
780-061.00	Reporting of Fatality or Multiple Hospitalization Accidents 29 CFR 1904	NPRM 57 FR 21222 5/19/92	OSHA proposes to revise reporting requirements in 29 CFR 1904.8 to expand the scope and time requirements for reporting hospitalizations and fatalities.	Final rule undetermined.
780-062.00	Air Contaminants - Construction, Maritime, and Agricultural Industry 29 CFR 1910 29 CFR 1915 29 CFR 1917-1918 29 CFR 1926 29 CFR 1928	NPRM 57 FR 26002 6/12/92 Comment period extended 57 FR 37126 8/18/92	OSHA proposes to revise its existing air contaminant standards for the construction and maritime industries to establish more protective limits, and proposes to add exposure limits and standards for the agricultural industry. OSHA indefinitely extends the comment period on its proposed rule pursuant to a recent appeals court decision which vacated and remanded the general industry final rule for air contaminants.	Comments at any time. Final rule 6/93.
780-063.00	Ergonomic Safety and Health Management 29 CFR 1910	ANPRM 57 FR 34192 8/3/92 Corrections 57 FR 37591 8/19/92	OSHA is considering the development of a safety and health management standard that would address ergonomic hazards in the workplace for general industry and specific industries.	Comments by 2/1/93.
*780-064.00	Crane Safety Standards 29 CFR 1910 29 CFR 1926	ANPRM 57 FR 47746 10/19/92	OSHA is considering a multi-phased revision of provisions in general, and crane operator qualifications in particular, and solicits quantitative and qualitative data and expert opinions in this regard.	Comments by 2/12/93.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
ENDANGERED SPECIES ACT				
*200-039.00	Endangered and Threatened Wildlife - Bald Eagle 50 CFR 17	ANPRM 55 FR 4209 2/7/90	The FWS will propose a regulation dealing with the possible delisting, downlisting, or reclassification of the bald eagle (<u>Haliaeetus leucocephalus</u>) from endangered to threatened.	Decision on rulemaking action 12/92.
*200-049.00	Endangered and Threatened Wildlife - Marbled Murrelet 50 CFR 17	NPRM 56 FR 28362 6/20/91 Final rule 57 FR 45328 10/1/92	The FWS determines the marbled murrelet (<u>Brachyramphus marmoratus</u>) to be a threatened species of bird in Washington, Oregon, and California.	Effective 9/28/92.
200-052.00	Endangered and Threatened Wildlife - Mexican Spotted Owl 50 CFR 17	NPRM 56 FR 56344 11/4/91	The FWS proposes to list the Mexican spotted owl (<u>Strix occidentalis lucida</u>), found in Colorado, Utah, Arizona, New Mexico and Texas, as threatened under the Endangered Species Act.	Final rule by 11/92.
200-053.00	Endangered and Threatened Wildlife - Oregon Chub	NPRM 56 FR 58348 11/19/91	The FWS proposes to list the Oregon Chub (<u>Oregonichthys crameri</u>), found in several counties in western Oregon, as an endangered species under the ESA.	Final rule by 11/92.
200-056.00	Endangered and Threatened Wildlife - Mussels 50 CFR 17	NPRM 57 FR 27203 6/18/92	The FWS proposes to list the northern riffleshell mussel (<u>Epioblasma torulosa rangiana</u>) and the clubshell mussel (<u>Pleurobema clava</u>) as endangered species under the ESA. Both species occur in stream located in several eastern states including Kentucky, Ohio, and Pennsylvania.	Final rule by 6/93.
200-057.00	Endangered and Threatened Fishes - Duskytail Darter and Others 50 CFR 17	NPRM 57 FR 30191 7/8/92	The FWS proposes to list three fishes - duskytail darter (<u>Etheostoma cazonotus</u>), palezone shiner (<u>Notropis proce</u>), and pygmy madtom (<u>Noturus stanali</u>) - as endangered species under the ESA. The fishes inhabit certain streams in Alabama, Kentucky, Virginia, and eastern Tennessee.	Final rule by 7/93.
200-058.00	Endangered and Threatened Wildlife - Least Bell's Vireo 50 CFR 17	Revised NPRM 57 FR 34892 8/7/92	The FWS proposes to revise the designation of critical habitat for the least Bell's vireo (<u>Vireo bellii pusillus</u>) originally proposed May 3, 1985. The proposed designation encompasses portions of Los Angeles, Riverside, San Bernardino, San Diego, Santa Barbara, and Ventura counties in California.	Final rule by 8/93.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*200-059.00	Endangered and Threatened Species - Sacramento River Chinook Salmon 50 CFR 226	NPRM 57 FR 36626 8/14/92	The National Marine Fisheries Service proposes critical habitat designation for the Sacramento River winter-run chinook salmon (<i>Oncorhynchus tshawytscha</i>).	<u>Final rule by 8/93.</u>
MARINE PROTECTION, RESEARCH, AND SANCTUARIES ACT				
*460-016.00	Ocean Dumping - Expansion of Designated Sites - Washington, Oregon 40 CFR 228	NPRM 57 FR 43427 9/21/92	EPA proposes to temporarily expand the boundaries of three of four designated ocean dredged material disposal sites located offshore of the mouth of the Columbia River, to restrict site use to maintenance dredging material, and to alter conditions of site use.	<u>Final rule undetermined.</u>
NATIONAL ENVIRONMENTAL POLICY ACT				
480-017.00	DOE Integrated Environmental Restoration and Waste Management Program	NOI 55 FR 42633 10/22/90 NOA 57 FR 4193 2/4/92	DOE announces its intent to prepare a programmatic EIS to assess the potential environmental consequences of alternatives for implementing an integrated environmental restoration and waste management program that would provide a broad, systematic approach to addressing cleanup activities and waste management practices.	Draft PEIS third quarter 1993.
480-019.00	NEPA Implementing Procedures for Bureau of Mines	Notice of proposed revisions 57 FR 3436 1/29/92	DOI announces a proposed revision for implementing NEPA within the Bureau of Mines. The revision primarily reflects changes in organization and responsibilities.	Final revisions undetermined.
ARCHEOLOGICAL RESOURCES PROTECTION ACT				
090-001.00	Protection of Archeological Resources - Uniform Rules 18 CFR 1312 32 CFR 229 36 CFR 296 43 CFR 7	NPRM 56 FR 46259 9/11/91 Regulatory Agenda 57 FR 16880 4/27/92	To implement changes required by the Archeological Resources Protection Act, an interagency group composed of DOI, DOD, TVA, and USDA proposes to amend regulations on the protection of archeological resources.	Final rule 12/92.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
*0590-002.01	Curation of Federally Owned Archaeological Collections 36 CFR 79	NPRM 55 FR 37670 9/12/90 Regulatory Agenda 57 FR 16880 4/27/92	NPS proposes to amend the final rule of 9/12/90 to establish procedures for federal agencies to provide both information on the disposition of collections and copies of certain associated records to pertinent state officials, and procedures for discarding certain collection materials.	Final rule undetermined; no schedule yet for action.
FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT				
*300-003.00	Guidelines on Disposal and Storage 40 CFR 165	Updating underway 50 FR 44656 10/29/85 Planned NPRM 57 FR 17391 4/27/92	The 1988 amendments to FIFRA significantly expand EPA authority to regulate the storage, transportation, and disposal of pesticides. The Agency may exercise this authority through labeling provisions, procedures for recall of canceled products, and other regulations for storage, transport, and disposal of pesticide residues.	To be published in three parts: Phase I NPRM 3/93, Phase II NPRM 6/93, Phase III 1994.
*300-004.01	Worker Protection Standards - Pesticide Information Availability 40 CFR 170	NPRM 57 FR 38167 8/21/92	EPA proposes modifying the worker protection standard for agricultural workers and pesticide handlers to require that specific hazard information be made available to covered workers concerning the pesticides to which they are exposed.	Final rule undetermined.
300-007.00	Restricted Use Classification for Groundwater Contaminating Pesticides	Notice 55 FR 5861 2/20/90 NPRM 56 FR 22076 5/13/91 NOA 56 FR 56643 11/6/91 Regulatory Agenda 57 FR 17393 4/27/92	EPA proposes two options for adding new criteria for selection of pesticide products as candidates for restricted use classification. The proposed criteria would require consideration of restricted use for pesticide products that may contaminate groundwater. Both options address the measured persistence and mobility of an ingredient of a pesticide and the detection of the ingredient in groundwater in at least three different counties.	Final rule 5/93.
*300-014.00	Experimental Use Permit Rule for Microbial Pesticides 40 CFR 172	Planned NPRM 57 FR 17390 4/27/92	EPA will propose to amend its experimental use permit regulations for pesticides to clarify the circumstances under which a permit is presumed not to be required and to specify that the presumption is based on risk. EPA will also propose to require notification before initiation of small-scale testing of certain genetically modified microbial pesticides.	NPRM 12/92; at OMB.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
300-021.00	Certification of Restricted Use Pesticide Applicator 40 CFR 171	NPRM 55 FR 46890 11/7/90 Notice 56 FR 12007 3/21/91 Regulatory Agenda 57 FR 17393 4/27/92	EPA proposes to revise the rules regarding the certification of applicators of restricted use pesticides to upgrade the provisions of certification programs.	Final rule 12/92.
FEDERAL MINE SAFETY AND HEALTH ACT				
*330-004.00	Safety Standards for Explosives at Metal and Nonmetal Mines 30 CFR 56 30 CFR 57	NPRM 53 FR 45487 11/10/88 Final rule 56 FR 2070 1/18/91 Partial administrative stay; effective date stayed 56 FR 46500 9/12/91	DOL updates and clarifies the Mine Safety and Health Administration's safety standards for explosives at metal and nonmetal mines to make them consistent with technological advances such as gaseous initiation systems, miniaturized detonating cord systems, and the use of bulk mixing of explosives materials.	Effective date of final rule stayed until 11/1/91 except for certain provisions which are stayed until 10/1/92.
		NPRM 57 FR 47524 10/16/92 Correction 57 FR 49218 10/30/92	DOL proposes a rule to address stayed provisions of the 1/18/91 final rule on safety standards for explosives at metal and nonmetal mines.	Comments by 12/15/92.
330-005.00	Air Quality, Chemical Substances, and Respiratory Protection Standards 30 CFR 56-58 30 CFR 70-72 30 CFR 75 30 CFR 90	NPRM 54 FR 35760 8/29/89 Correction 55 FR 5118 2/13/90 Regulatory Agenda 57 FR 16981 4/27/92	The Mine Safety and Health Administration proposes to revise existing standards for air quality and chemical substances at coal and metal/nonmetal mines. Permissible exposure limits (PELs) for substances that may pose health hazards at these mines and revised requirements for exposure monitoring, carcinogens, and respiratory protection programs are proposed.	Final rule 11/92.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.

* Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
330-006.00	Hazard Communication CFR undetermined	MPRM 55 FR 46400 11/2/90 Regulatory Agenda 57 FR 16981 4/27/92	MSHA proposes to establish a hazard communication standard that would require mine operators to assess the hazards of chemicals they produce or use and provide information to their employees concerning chemical hazards by means of a written hazard communication program, labeling of containers, MSDS sheets, and training programs.	Final rule 4/93.
HISTORIC SITES ACT OF 1935				
410-004.00	National Natural Landmarks - Designation of Geological and Ecological Natural Areas 36 CFR 62	ANPRM 55 FR 43384 10/29/90 MPRM 56 FR 58790 11/21/91 Regulatory Agenda 57 FR 16881 4/27/92	The National Park Service proposes to amend its regulations governing the identification, notification, evaluation, nomination, and designation of geological and ecological natural areas as National Natural Landmarks (NNLs) to ensure that landowners are fully notified and provided full program disclosure and an understanding of the consequences of NNL designation before agreeing to it.	Final 12/92.
BIOTECHNOLOGY				
110-005.00	Microbial Products (Biotechnology) 40 CFR 704 40 CFR 720 40 CFR 721	Planned MPRM 57 FR 17397 4/27/92	EPA will propose to amend its definition of "small quantities solely for research and development" and to amend reporting requirements for persons who are using microorganisms. EPA will establish a special notification mechanism for experimental releases of microorganisms and propose significant new use notification requirements under TSCA Sect. 5(a)(2).	MPRM 12/92. Final rule 12/93.
PACIFIC NORTHWEST ELECTRIC POWER AND CONSERVATION				
810-009.00	Power Plan Amendments - Columbia River Basin (Phase IV)	Notice 56 FR 23947 5/24/91	The Pacific Northwest Electric Power and Conservation Planning Council invites recommendations to amend the resident fish and wildlife provisions of the Columbia River Basin Fish and Wildlife Program.	Final action undetermined.
810-013.00	Power Plan Amendments - Columbia River Basin- Phase III	Proposed amendments 57 FR 24519 6/9/92	The Pacific Northwest Electric Power and Planning Council proposes amendments to the salmon and steelhead provisions of the Columbia River Fish and Wildlife Program. The amendments address program goals and objectives, system planning, monitoring and evaluation, and habitat and production issues.	Final action undetermined.

(a) MPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; MOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
COASTAL ZONE MANAGEMENT ACT				
160-002.00	National Estuarine Reserve Research System 15 CFR 921	MPRM 53 FR 43816 10/28/88 Interim final rule 55 FR 29940 7/23/90 MPRM 57 FR 31926 7/17/92	NOAA proposes to revise the existing interim final rules for selecting, designating, operating and funding national estuarine research reserves to bring them into accord with requirements of the Coastal Zone Act Reauthorization Amendments of 1990.	Interim final rule effective 7/23/90. Final rule undetermined.
160-003.01	Implementation of 1990 Reauthorization of Coastal Zone Management Act - Management Measures for Non-point Sources 15 CFR 928 15 CFR 932	NOA 56 FR 27618 6/14/91 Correction 56 FR 28959 6/25/91 NOA 57 FR 26845 6/16/92	EPA issues proposed guidance specifying management measures for the control of non-point sources causing coastal water pollution.	Final guidance 11/92.
160-003.02	Implementation of 1990 Reauthorization of Coastal Zone Management Act - Approval of State Programs 15 CFR 928 15 CFR 932	NOA 56 FR 51882 10/16/91	EPA and NOAA issue proposed guidance specifying procedures and criteria that will guide the Agencies' approval of state programs, to assist states in developing and obtaining approval for their coastal non-point pollution control programs.	Final guidance 12/92.
OTHER				
805-023.00	Assessing Female Reproductive Risk	Proposed guidelines 53 FR 24834 6/30/88	EPA proposes guidelines for assessing the female reproductive risk of environmental pollutants. The guidelines are intended to guide Agency analysis of data on female reproductive toxicants according to appropriate scientific standards.	Final guidelines 12/92.
805-024.00	Assessing Male Reproductive Risk	Proposed guidelines 53 FR 24850 6/30/88	EPA proposes guidelines for assessing the male reproductive risk of environmental pollutants. The guidelines are intended to guide Agency analysis of data on male reproductive toxicants according to appropriate scientific standards.	Final guidelines 12/92.

(a) MPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
* Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

REGULATORY UPDATE TABLE - SEPTEMBER/OCTOBER 1992

RU NO.	REQUIREMENT	STATUS (a)	ANTICIPATED CHANGES	SCHEDULED ACTION
805-041.00	Task Force on Wetlands - No Net Loss Strategy	Notice 55 FR 30279 7/25/90 NOA 56 FR 8560 2/28/91	The Domestic Policy Council's Task Force on Wetlands requests comments on strategies for attaining "no net loss" of wetlands. DOE is represented on the Council.	Awaiting final revision of wetlands manual (see RU# 805-049.00).
805-047.00	WAPA's Energy Planning and Management Program	Proposed Program 56 FR 16093 4/19/91	WAPA proposes to establish an Energy Planning and Management Program to replace its Guidelines and Acceptance Criteria for the Conservation Renewable Energy Program.	Final action by 12/93.
*805-048.00	Security Skills Training and Qualifications Standards for Protective Force Personnel 10 CFR 1046	NPRM 56 FR 21631 5/10/91 Regulatory Agenda 56 FR 53243 10/21/91	DOE proposes new requirements for access authorizations and security skills training and qualification for DOE contractor personnel responsible for protection of DOE facilities.	Final rule 12/92.
*805-049.00	Federal Manual for Identifying and Delineating Jurisdictional Wetlands 7 CFR Ch. VI 33 CFR Ch. II 40 CFR Ch. I 50 CFR Ch. I and IV	NPRM 56 FR 40446 8/14/91	EPA, in cooperation with the Departments of Defense, Agriculture, and Interior, proposes revisions to the "Federal Manual for Identifying and Delineating Jurisdictional Wetlands."	Final rule 12/92.
805-049.01	Wetland Identification and Delineation Rule 7 CFR 12 33 CFR 328 40 CFR 110 40 CFR 116 40 CFR 117 40 CFR 122 40 CFR 230 40 CFR 232 40 CFR 435 50 CFR Ch.I and IV	NPRM 56 FR 65964 12/19/91	EPA, COE and the Soil Conservation Service propose to incorporate portions of the Federal Manual for Delineating Jurisdictional Wetlands into the regulations governing the agencies' wetland protection programs. The provisions proposed reflect revisions to the manual proposed on 8/14/91, and the final rule will be consistent with the final manual. In addition, field data and other technical references are made available for review and comment.	Final rule 12/92.

(a) NPRM = Notice of Proposed Rulemaking; ANPRM = Advanced Notice of Proposed Rulemaking; NOI = Notice of Intent; NOA = Notice of Availability.
 * Indicates a change in date of scheduled action or a new rulemaking development during the past month. Shaded RU# indicates item of special interest to EH-23.

IRIS DATABASE UPDATE

A DOE EH-231 Memorandum entitled *Integrated Risk Information System (IRIS) and Availability of Chemical Risk Assessment Guidance* was distributed in June 1991 to DOE Program Offices and Field Organizations. Attachment 1 to the memorandum, an ORNL-ESD report discussing access to and utilization of the *IRIS* online database, included "Table 1. *IRIS* Chemicals With Reference Doses and Carcinogen Assessments." The *IRIS* database has been updated extensively since that table was generated. The following table is the monthly updated version of Table 1 including all the chemicals listed in Table 1 along with additions/changes to the database as of October 31, 1992. Additions/changes are shaded for ease of identification. Future issues of the *Environmental Regulatory Update Table* will include updates to the *IRIS* database during the previous month. *Use only the most current version of the table.*

**IRIS CHEMICALS WITH REFERENCE DOSES AND/OR
CARCINOGEN ASSESSMENTS**

(Values current through October 31, 1992. Use only the most current version of this table.)

NAME	CASRN	ORAL RfD (mg/kg/day)	INHAL RfC (mg/cu m)	EPA GROUP	ORAL SLOPE FACTOR (mg/kg/day) ⁻¹	INHAL SLOPE FACTOR (mg/kg/day) ⁻¹
ACENAPHTHENE	000083-32-9	6E-2	--	--	--	--
ACENAPHTHYLENE	000208-96-8	--	--	D	--	--
ACEPHATE	030560-19-1	4E-3	--	C	8.7E-3	--
ACETALDEHYDE	000075-07-0	--	9E-3	B2	--	--
ACETONE	000067-64-1	1E-1	--	D	--	--
ACETONITRILE	000075-05-8	6E-3	--	--	--	--
ACETOPHENONE	000098-86-2	1E-1	--	D	--	--
ACETYL CHLORIDE	000075-36-5	--	--	D	--	--
ACROLEIN	000107-02-8	--	2E-5	C	--	--
ACRYLAMIDE	000079-06-1	2E-4	--	B2	4.5	--
ACRYLIC ACID	000079-10-7	0.08	3E-4	--	--	--
ACRYLONITRILE	000107-13-1	--	2E-3	B1	5.4E-1	--
ADIPONITRILE	000111-69-3	--	--	D	--	--
ALACHLOR	015972-60-8	1E-2	--	--	--	--
ALAR	001596-84-5	1.5E-1	--	--	--	--
ALDICARB	000116-06-3	2E-4	--	D	--	--
ALDRIN	000309-00-2	3E-5	--	B2	1.7E+1	--
ALLY	074223-64-6	2.5E-1	--	--	--	--
ALLYL ALCOHOL	000107-18-6	5E-3	--	--	--	--
ALLYL CHLORIDE	000107-05-1	--	1E-3	C	--	--
ALUMINUM PHOSPHIDE	020859-73-8	4E-4	--	--	--	--
AMDRO	067485-29-4	3E-4	--	--	--	--
AMETRYN	000834-12-8	9E-3	--	--	--	--
AMINOPYRIDINE, 4-	000504-24-5	--	--	D	--	--
AMITRAZ	033089-61-1	2.5E-3	--	--	--	--
AMMONIA	007664-41-7	--	1E-1	--	--	--
AMMONIUM ACETATE	000631-61-8	--	--	D	--	--
AMMONIUM METHACRYLATE	016325-47-6	--	--	D	--	--
AMMONIUM SULFAMATE	007773-06-0	2E-1	--	--	--	--
ANILINE	000062-53-3	--	1E-3	B2	5.7E-3	--
ANTHRACENE	000120-12-7	3E-1	--	--	--	--

NAME	CASRN	ORAL RfD (mg/kg/day)	INHAL RfC (mg/cu m)	EPA GROUP	ORAL SLOPE FACTOR (mg/kg/day) ⁻¹	INHAL SLOPE FACTOR (mg/kg/day) ⁻¹
ANTIMONY (METALLIC)	007440-36-0	4E-4	--	--	--	--
APOLLO	074115-24-5	1.3E-2	--	C	--	--
ARAMITE	000140-57-8	--	--	B2	2.5E-2	--
ARSENIC, INORGANIC	007440-38-2	3E-4	--	A	--	--
ASBESTOS	001332-21-4	--	--	A	--	--
ASSURE	076578-14-8	9E-3	--	D	--	--
ASULAM	003337-71-1	5E-2	--	--	--	--
ATRAZINE	001912-24-9	5E-3	--	--	--	--
AVERMECTIN B1	065195-55-3	4E-4	--	--	--	--
AZOBENZENE	000103-33-3	--	--	B2	1.1E-1	--
BARIUM	007440-39-3	7E-2	--	--	--	--
BAYGON	000114-26-1	4E-3	--	--	--	--
BAYLETON	043121-43-3	3E-2	--	--	--	--
BAYTHROID	068359-37-5	2.5E-2	--	--	--	--
BENEFIN	001861-40-1	3E-1	--	--	--	--
BENOMYL	017804-35-2	5E-2	--	--	--	--
BENTAZON	025057-89-0	2.5E-3	--	--	--	--
BENZ(A)ANTHRACENE	000056-55-3	--	--	B2	--	--
BENZALDEHYDE	000100-52-7	1E-1	--	--	--	--
BENZENE	000071-43-2	--	--	A	2.9E-2	--
BENZIDINE	000092-87-5	3E-3	--	A	2.3E+2	2.3E+2
BENZO(A)PYRENE	000050-32-8	--	--	B2	5.79E+0	--
BENZO(B)FLUORANTHENE	000205-99-2	--	--	B2	--	--
BENZO(G,H,I)PERYLENE	000191-24-2	--	--	D	--	--
BENZOIC ACID	000065-85-0	4	--	D	--	--
BENZOTRICHLORIDE	000098-07-7	--	--	B2	1.3E+1	--
BENZO(K)FLUORANTHENE	000207-08-9	--	--	B2	--	--
BENZYL CHLORIDE	000100-44-7	--	--	B2	1.7E-1	--
BERYLLIUM	007440-41-7	5E-3	--	B2	4.3E-0	--
BIDRIN	000141-66-2	1E-4	--	--	--	--
BIPHENTHRIN	082657-04-3	1.5E-2	--	--	--	--
BIPHENYL, 1,1'-	000092-52-4	5E-2	--	D	--	--
BIS(2-CHLOROISOPROPYL) ETHER	039638-32-9	4E-2	--	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	000117-81-7	2E-2	--	B2	1.4E-2	--

NAME	CASRN	ORAL RfD (mg/kg/day)	INHAL RfC (mg/cu m)	EPA GROUP	ORAL SLOPE FACTOR (mg/kg/day) ¹	INHAL SLOPE FACTOR (mg/kg/day) ¹
BIS(CHLOROETHYL) ETHER	000111-44-4	--	--	B2	1.1E+0	--
BIS(CHLOROMETHYL) ETHER	000542-88-1	--	--	A	2.2E+2	--
BISPHENOL A	000080-05-7	5E-2	--	--	--	--
BORON (BORON AND BORATES ONLY)	007440-42-8	9E-2	--	--	--	--
BROMINATED DIBENZOFURANS	NO CASRN	--	--	D	--	--
BROMOCHLOROMETHANE	000074-97-5	--	--	D	--	--
BROMODICHLOROMETHANE	000075-27-4	2E-2	--	B2	1.3E-1	--
BROMODIPHENYL ETHER, P-	000101-55-3	--	--	D	--	--
BROMOFORM	000075-25-2	2E-2	--	B2	7.9E-3	--
BROMOMETHANE	000074-83-9	1.4E-3	5E-3	D	--	--
BROMOTRICHLOROMETHANE	000075-62-7	--	--	D	--	--
BROMOXYNIL OCTANOATE	001689-99-2	2E-2	--	--	--	--
BROMOXYNIL	001689-84-5	2E-2	--	--	--	--
BUTADIENE, 1,3-	000106-99-0	--	--	B2	--	--
BUTANOL, 1-	000071-36-3	1E-1	--	D	--	--
BUTYL BENZYL PHTHALATE, N-	000085-68-7	2E-1	--	C	--	--
BUTYLATE	002008-41-5	5E-2	--	--	--	--
BUTYLPHthalYL BUTYGLYCOLATE	000085-70-1	1E+0	--	--	--	--
CADMIUM	007440-43-9	5E-4	--	B1	--	--
CALCIUM CYANIDE	000592-01-8	4E-2	--	--	--	--
CAPROLACTAM	000105-60-2	5E-1	--	--	--	--
CAPTAFOl	002425-06-1	2E-3	--	--	--	--
CAPTAN	000133-06-2	1.3E-1	--	--	--	--
CARBARYL	000063-25-2	1E-1	--	--	--	--
CARBOFURAN	001563-66-2	5E-3	--	--	--	--
CARBON DISULFIDE	000075-15-0	1E-1	--	--	--	--
CARBON TETRACHLORIDE	000056-23-5	7E-4	--	B2	1.3E-1	--
CARBOSULFAN	055285-14-8	1E-2	--	--	--	--
CARBOXIN	005234-68-4	1E-1	--	--	--	--
CHLORAL	000075-87-6	2E-3	--	--	--	--
CHLORAMBEN	000133-90-4	1.5E-2	--	--	--	--
CHLORANILINE, P-	000106-47-8	4E-3	--	--	--	--
CHLORDANE	000057-74-9	6E-5	--	B2	1.3E+0	--
CHLORIMURON-ETHYL	090982-32-4	2E-2	--	--	--	--

NAME	CASRN	ORAL RfD (mg/kg/day)	INHAL RfC (mg/cu m)	EPA GROUP	ORAL SLOPE FACTOR (mg/kg/day) ¹	INHAL SLOPE FACTOR (mg/kg/day) ¹
CHLORINE CYANIDE (CYANOGEN CHLORIDE)	000506-77-4	5E-2	--	--	--	--
CHLORINE DIOXIDE	010049-04-4	--	2E-4	--	--	--
CHLORO-2-METHYL PROPANE, 2- (T-BUTYLCHLORIDE)	000507-20-0	--	--	D	--	--
CHLOROACETOPHENONE, 2-	000532-27-4	--	3E-5	--	--	--
CHLOROBENZENE	000108-90-7	2E-2	--	D	--	--
CHLOROBENZILATE	000510-15-6	2E-2	--	--	--	--
CHLOROBUTANE, 1-	000109-69-3	--	--	D	--	--
CHLOROBUTANE, 2-	000078-86-4	--	--	D	--	--
CHLOROCYCLOPENTADIENE	041851-50-7	--	--	D	--	--
CHLOROETHOXY)METHANE, BIS(2-	000111-91-1	--	--	D	--	--
CHLOROFORM	000067-66-3	1E-2	--	B2	6.1E-3	--
CHLOROMETHYL METHYL ETHER	000107-30-2	--	--	A	--	--
CHLORONAPHTHALENE, BETA-	000091-58-7	8E-2	--	--	--	--
CHLOROPHENOL, 2	000095-57-8	5E-3	--	--	--	--
CHLOROTOLUENE, 0-	000095-49-8	2E-2	--	--	--	--
CHLOROPROPHAM	000101-21-3	2E-1	--	--	--	--
CHLORPYRIFOS	002921-88-2	3E-3	--	--	--	--
CHLORSULFURON	064902-72-3	5E-2	--	--	--	--
CHLOROTHALONIL	001897-45-6	1.5E-2	--	--	--	--
CHROMIUM(III)	016065-83-1	1E+0	--	--	--	--
CHROMIUM(VI)	018540-29-9	5E-3	--	A	--	--
CHRYSENE	000218-01-9	--	--	B2	--	--
COAL TAR (COKE OVEN EMISSIONS)	008007-45-2	--	--	A	--	--
COPPER	007440-50-8	--	--	D	--	--
COPPER CYANIDE	000544-92-3	5E-3	--	--	--	--
CREOSOTE, COAL TAR	008001-58-9	--	--	B1	--	--
CROTONALDEHYDE	000123-73-9	--	--	C	--	--
CYROMAZINE	066215-27-8	7.5E-3	--	--	--	--
CUMENE	000098-82-8	4E-2	--	--	--	--
CYANAZINE	021725-46-2	2E-3	--	--	--	--
CYANIDE (CN-)	000057-12-5	2E-2	--	D	--	--
CYANOGEN	000460-19-5	4E-2	--	--	--	--
CYANOGEN BROMIDE	000506-68-3	9E-2	--	--	--	--

NAME	CASRN	ORAL RfD (mg/kg/day)	INHAL RfC (mg/cu m)	EPA GROUP	ORAL SLOPE FACTOR (mg/kg/day) ¹	INHAL SLOPE FACTOR (mg/kg/day) ¹
CYANOGEN CHLORIDE (CHLORINE CYANIDE)	000506-77-4	5E-2	--	--	--	--
CYCLOHEXANONE	000108-94-1	5E+0	--	--	--	--
CYCLOHEXYLAMINE	000108-91-8	2E-1	--	--	--	--
CYHALOTHRIN/KARATE	068085-85-8	5E-3	--	--	--	--
CYPERMETHRIN	052315-07-8	1E-2	--	--	--	--
DALAPON, SODIUM SALT	000075-99-0	3E-2	--	--	--	--
DDD	000072-54-8	--	--	B2	2.4E-1	--
DDE	000072-55-9	--	--	B2	3.4E-1	--
DDT (DICHLORODIPHENYL- TRICHLOROETHANE, P,P'-)	000050-29-3	5E-4	--	B2	3.4E-1	--
DECABROMODIPHENYL ETHER	001163-19-5	1E-2	--	C	--	--
DEMETON	008065-48-3	4E-5	--	--	--	--
DI-(2-ETHYLHEXYL)ADIPATE	000103-23-1	--	--	C	1.2E-3	--
DIBENZ(A,H)ANTHRACENE	000053-70-3	--	--	B2	--	--
DIBENZOFURAN	000132-64-9	--	--	D	--	--
DIBROMOBENZENE, 1,4-	000106-37-6	1E-2	--	--	--	--
DIBROMOCHLOROMETHANE	000124-48-1	2E-2	--	C	8.4E-2	--
DIBROMODICHLOROMETHANE	000594-18-3	--	--	D	--	--
DIBROMO-3-CHLOROPROPANE, 1,2-	000096-12-8	--	2E-4	--	--	--
DIBROMODIPHENYL ETHER, P, P'-	002050-47-7	--	--	D	--	--
DIBROMOETHANE, 1,2-	000106-93-4	--	--	B2	8.5E+1	--
DIBUTYL PHTHALATE	000084-74-2	1E-1	--	D	--	--
DICAMBA	001918-00-9	3E-2	--	--	--	--
DICHLOROBENZENE, 1,2-	000095-50-1	9E-2	--	D	--	--
DICHLOROBENZENE, 1,3-	000541-73-1	--	--	D	--	--
DICHLOROBENZIDINE, 3,3'-	000091-94-1	--	--	B2	4.5E-1	--
DICHLORODIFLUOROMETHANE	000075-71-8	2E-1	--	--	--	--
DICHLOROETHANE, 1,1-	000075-34-3	--	--	C	--	--
DICHLOROETHANE, 1,2-	000107-06-2	--	--	B2	9.1E-2	--
DICHLOROETHYLENE, CIS-1,2-	000156-59-2	--	--	D	--	--
DICHLOROETHYLENE, 1,2-T-	000156-60-5	2E-2	--	--	--	--
DICHLOROETHYLENE, 1,1-	000075-35-4	9E-3	--	C	6E-1	--
DICHLOROMETHANE (METHYLENE CHLORIDE)	000075-09-2	6E-2	--	B2	7.5E-3	--

NAME	CASRN	ORAL RfD (mg/kg/day)	INHAL RfC (mg/cu m)	EPA GROUP	ORAL SLOPE FACTOR (mg/kg/day) ⁻¹	INHAL SLOPE FACTOR (mg/kg/day) ⁻¹
DICHLOROPHENOL, 2,4-	000120-83-2	3E-3	--	--	--	--
DICHLOROPHENOXYACETIC ACID, 2,4-	000094-75-7	1E-2	--	--	--	--
DICHLOROPHENOXYBUTYRIC ACID, 4-(2,4-	000094-82-6	8E-3	--	--	--	--
DICHLOROPROPANE, 1,2-	000078-87-5	--	4E-3	--	--	--
DICHLOROPROPANOL, 2,3-	000616-23-9	3E-3	--	--	--	--
DICHLOROPROPENE, 1,3-	000542-75-6	3E-4	2E-2	B2	--	--
DICHLORVOS	000062-73-7	8E-4	--	B2	2.9E-1	--
DIELDRIN	000060-57-1	5E-5	--	B2	1.6E+1	--
DIETHYL P-NITROPHENYL PHOSPHATE	000311-45-5			D		
DIETHYL PHTHALATE	000084-66-2	8E-1	--	D	--	--
DIFENZOQUAT	043222-48-6	8E-2	--	--	--	--
DIFLUBENZURON	035367-38-5	2E-2	--	--	--	--
DIISOPROYL METHYLPHOSPHONATE	001445-75-6	8E-2	--	D	--	--
DIMETHIPIN	055290-64-7	2E-2	--	C	--	--
DIMETHOATE	000060-51-5	2E-4	--	--	--	--
DIMETHYLANILINE, N,N-	000121-69-7	2E-3	--	--	--	--
DIMETHYLFORMAMIDE	000068-12-2	--	3E-2	--	--	--
DIMETHYLPHENOL, 2,6-	000576-26-1	6E-4	--	--	--	--
DIMETHYLPHENOL, 2,4-	000105-67-9	2E-2	--	--	--	--
DIMETHYLPHENOL, 3,4-	000095-65-8	1E-3	--	--	--	--
DIMETHYLPHTHALATE	000131-11-3	--	--	D	--	--
DIMETHYL SULFATE	000077-78-1	--	--	B2	--	--
DIMETHYLTEREPHTHALATE	000120-61-6	1E-1	--	--	--	--
DINITRO-O-CYCLOHEXYL PHENOL, 4,6-	000131-89-5	2E-3	--	--	--	--
DINITROBENZENE, 1,3-	000099-65-0	1E-4	--	D	--	--
O-DINITROBENZENE	000528-29-8			D		
DINITROPHENOL, 2,4-	000051-28-5	2E-3	--	--	--	--
DINITROTOLUENE, 2,4-	000121-14-2	2E-3	--	--	--	--
DINITROTOLUENE MIXTURE	NO CASRN	--	--	B2	--	--
DINOSEB	000088-85-7	1E-3	--	D	--	--
DIOXANE, 1,4-	000123-91-1	--	--	B2	1.1E-2	--
DIPHENAMID	000957-51-7	3E-2	--	--	--	--
DIPHENYLAMINE	000122-39-4	2.5E-2	--	--	--	--

NAME	CASRN	ORAL RfD (mg/kg/day)	INHAL RfC (mg/cu m)	EPA GROUP	ORAL SLOPE FACTOR (mg/kg/day) ⁻¹	INHAL SLOPE FACTOR (mg/kg/day) ⁻¹
DIPHENYLHYDRAZINE, 1,2-	000122-66-7	--	--	B2	8.0E-1	--
DIQUAT	000085-00-7	2.2E-3	--	--	--	--
DISULFOTON	000298-04-4	4E-5	--	--	--	--
DITHIANE, 1,4-	000505-29-3	--	--	D	--	--
DIURON	000330-54-1	2E-3	--	--	--	--
DODINE	002439-10-3	4E-3	--	--	--	--
ENDOSULFAN	000115-29-7	5E-5	--	--	--	--
ENDOTHALL	000145-73-3	2E-2	--	--	--	--
ENDRIN	000072-20-8	3E-4	--	D	--	--
EPICHLOROHYDRIN	000106-89-8	2E-3	1E-3	B2	9.9E-3	--
EPOXYBUTANE, 1,2 (EBU)	000106-88-7	2E-2	--	--	--	--
EPTC	000759-94-4	2.5E-2	--	--	--	--
ETHEPHON	016672-87-0	5E-3	--	--	--	--
ETHION	000563-12-2	5E-4	--	--	--	--
ETHOXYETHANOL, 2-	000110-80-5	--	2E-1	--	--	--
ETHYL-P-NITROPHENYL PHOSPHONATE THIONOBENZENE (EPN)	002104-64-5	1E-5	--	--	--	--
ETHYL ETHER	000060-29-7	2E-1	--	--	--	--
ETHYL CHLORIDE	000075-00-3	--	1E+1	--	--	--
ETHYL ACETATE	000141-78-6	9E-1	--	--	--	--
ETHYLBENZENE	000100-41-4	1E-1	1E+0	D	--	--
ETHYLENE THIOUREA	000096-45-7	8E-5	--	--	--	--
ETHYLENE GLYCOL	000107-21-1	2E+0	--	--	--	--
ETHYLPHTHALYL ETHYL GLYCOLATE	000084-72-0	3E+0	--	--	--	--
EXPRESS	101200-48-0	8E-3	--	--	--	--
FENAMIPHOS	022224-92-6	2.5E-4	--	--	--	--
FENPROPATHRIN (DANITOL)	039515-41-8	5E-4	--	--	--	--
FLUOMETURON	002164-17-2	1.3E-2	--	--	--	--
FLUORANTHENE	000266-44-0	4E-2	--	D	--	--
FLUORENE	000086-73-7	4E-2	--	D	--	--
FLUORINE	007782-41-4	6E-2	--	--	--	--
FLURIDONE	059756-60-4	8E-2	--	--	--	--
FLURPRIMIDOL	056425-91-3	2E-2	--	--	--	--

NAME	CASRN	ORAL RfD (mg/kg/day)	INHAL RfC (mg/cu m)	EPA GROUP	ORAL SLOPE FACTOR (mg/kg/day) ¹	INHAL SLOPE FACTOR (mg/kg/day) ¹
FLUTOLANIL	066332-96-5	6E-2	--	--	--	--
FLUVALINATE	069409-94-5	1E-2	--	--	--	--
FOLPET	000133-07-3	1E-1	--	B2	3.5E-3	--
FOMESAFEN	072178-02-0	--	--	C	--	--
FONOFOS	000944-22-9	2E-3	--	--	--	--
FORMALDEHYDE	000050-00-0	2E-1	--	B1	--	--
FORMIC ACID	000064-18-6	--	--	--	--	--
FOSETYL-AL	039148-24-8	3E+0	--	C	--	--
FURAN	000110-00-9	1E-3	--	--	--	--
FURFURAL	000098-01-1	3E-3	--	--	--	--
FURMECYCLOX	060568-05-0	--	--	B2	3.0E-2	--
GLUFOSINATE-AMMONIUM	077182-82-2	4E-4	--	--	--	--
GLYCIDALDEHYDE	000765-34-4	4E-4	--	B2	--	--
GLYPHOSATE	001071-83-6	1E-1	--	D	--	--
GOAL (OXYFLUORFEN)	042874-03-3	3E-3	--	--	--	--
HALOXYFOP-METHYL	069806-40-2	5E-5	--	--	--	--
HARMONY	079277-27-3	1.3E-2	--	--	--	--
HEPTACHLOR	000076-44-8	5E-4	--	B2	4.5E+0	--
HEPTACHLOR EPOXIDE	001024-57-3	1.3E-5	--	B2	9.1E+0	--
HEXABROMOBENZENE	000087-82-1	2E-3	--	--	--	--
HEXABROMODIPHENYL ETHER	036483-60-0	--	--	D	--	--
HEXACHLOROBENZENE	000118-74-1	8E-4	--	B2	1.6	--
HEXACHLOROBUTADIENE	000087-68-3	2E-3	--	C	7.8E-2	--
HEXACHLOROCYCLOHEXANE, ALPHA-	000319-84-6	--	--	B2	6.3E+0	--
HEXACHLOROCYCLOHEXANE, BETA	000319-85-7	--	--	C	1.8E+0	--
HEXACHLOROCYCLOHEXANE, GAMMA-	000058-89-9	3E-4	--	--	--	--
HEXACHLOROCYCLOHEXANE, EPSILON-	006108-10-7	--	--	D	--	--
HEXACHLOROCYCLOHEXANE, DELTA-	000319-86-8	--	--	D	--	--
HEXACHLOROCYCLOHEXANE, TECHNICAL-	000608-73-1	--	--	B2	1.8E+0	--
HEXACHLOROCYCLOPENTADIENE	000077-47-4	7E-3	--	D	--	--
HEXACHLORODIBENZO-P-DIOXIN MIXTURE	019408-74-3	--	--	B2	6.2E+3	--
HEXACHLOROETHANE	000067-72-1	1E-3	--	C	1.4E-2	--

NAME	CASRN	ORAL RfD (mg/kg/day)	INHAL RfC (mg/cu m)	EPA GROUP	ORAL SLOPE FACTOR (mg/kg/day) ⁻¹	INHAL SLOPE FACTOR (mg/kg/day) ⁻¹
HEXACHLOROPHENE	000070-30-4	3E-4	--	--	--	--
HEXAHYDRO-1,3,5-TRINITRO-1,3,5- TRIAZINE	000121-82-4	3E-3	--	C	1.1E-1	--
HEXANE, N	000110-54-3	--	2E-1	--	--	--
HEXAZINONE	051235-04-2	3.3E-2	--	--	--	--
HYDRAZINE	000302-01-2	--	--	B2	3.0	--
HYDROGEN CYANIDE	000074-90-8	2E-2	--	--	--	--
HYDROGEN CHLORIDE	007647-01-0	--	7E-3	--	--	--
HYDROGEN SULFIDE	007783-06-4	3E-3	9E-4	--	--	--
IMAZALIL	035554-44-0	1.3E-2	--	--	--	--
IMAZAQUIN	081335-37-7	2.5E-1	--	--	--	--
INDENO(1,2,3-CD)PYRENE	000193-39-5	--	--	B2	--	--
IPRODIONE	036734-19-7	4E-2	--	--	--	--
ISOBUTYL ALCOHOL	000078-83-1	3E-1	--	--	--	--
ISOPHORONE	000078-59-1	2E-1	--	C	9.3E-4	--
ISOPROPALIN	033820-53-0	1.5E-2	--	--	--	--
ISOPROPYL METHYL PHOSPHONIC ACID	001832-54-8	1E-1	--	D	--	--
ISOXABEN	082558-50-7	5E-2	--	C	--	--
KARATE (CYHALOTHIN)	091465-08-6	5E-3	--	--	--	--
KERB (PRONAMIDE)	023950-58-5	7.5E-2	--	--	--	--
LACTOFEN	077501-63-4	2E-3	--	--	--	--
LEAD	007439-92-1	--	--	B2	--	--
LINURON	000330-55-2	2E-3	--	C	--	--
LONDAX	083055-99-6	2E-1	--	--	--	--
MALATHION	000121-75-5	2E-2	--	--	--	--
MALEIC ANHYDRIDE	000108-31-6	1E-1	--	--	--	--
MALEIC HYDRAZIDE	000123-33-1	5E-1	--	--	--	--
MANEB	012427-38-2	5E-3	--	--	--	--
MANGANESE	007439-96-3	--	4E-4	D	--	--
MCPA	000094-74-6	5E-4	--	--	--	--
MCPB	000094-81-5	1E-2	--	--	--	--
MCPP	000093-65-2	1E-3	--	--	--	--
MEPIQUAT CHLORIDE	024307-26-4	3E-2	--	--	--	--
MERCURY, INORGANIC	007439-97-6	--	--	D	--	--

NAME	CASRN	ORAL RfD (mg/kg/day)	INHAL RfC (mg/cu m)	EPA GROUP	ORAL SLOPE FACTOR (mg/kg/day) ⁻¹	INHAL SLOPE FACTOR (mg/kg/day) ⁻¹
MERPHOS	000150-50-5	3E-5	--	--	--	--
MERPHOS OXIDE	000078-48-8	3E-5	--	--	--	--
METALAXYL	057837-19-1	6E-2	--	--	--	--
METHACRYLONITRILE	000126-98-7	1E-4	--	--	--	--
METHAMIDOPHOS	010265-92-6	5E-5	--	--	--	--
METHANOL	000067-56-1	5E-1	--	--	--	--
METHIDATHION	000950-37-8	1E-3	--	C	--	--
METHOMYL	016752-77-5	2.5E-2	--	--	--	--
METHOXYCHLOR	000072-43-5	5E-3	--	D	--	--
METHOXYETHANOL, 2-	000109-86-4	--	2E-2	--	--	--
METHYL ACRYLATE	000096-33-3	--	--	D	--	--
METHYL ETHYL KETONE	000078-93-3	1E-0	--	D	--	--
METHYL ISOBUTYL KETONE	000108-10-1	--	--	--	--	--
METHYL MERCURY	022967-92-6	3E-4	--	--	--	--
METHYL PARATHION	000298-00-0	2.5E-4	--	--	--	--
METHYL TERT-BUTYL ETHER	001634-04-4	--	5E-2	--	--	--
METHYLPHENOL, 2- (O-CRESOL)	000095-48-7	5E-2	--	C	--	--
METHYLPHENOL, 3- (M-CRESOL)	000108-39-4	5E-2	--	C	--	--
METHYLPHENOL, 4- (P-CRESOL)	000106-44-5	--	--	C	--	--
METHYLENE CHLORIDE (DICHLOROMETHANE)	000075-09-2	6E-2	--	B2	7.5E-3	--
METHYLENE-BIS(N,N-DIMETHYL) ANILINE, 4,4'-	000101-61-1	--	--	B2	4.6E-2	--
METOACHLOR	051218-45-2	1.5E-1	--	C	--	--
METRIBUZIN	021087-64-9	2.5E-2	--	--	--	--
MIREX	002385-85-5	2E-4	--	--	--	--
MOLINATE	002212-67-1	2E-3	--	--	--	--
NALED	000300-76-5	2E-3	--	--	--	--
NAPHTHALENE	000091-20-3	--	--	D	--	--
NAPROPAMIDE	015299-99-7	1E-1	--	--	--	--
NICKEL CARBONYL	013463-39-3	--	--	B2	--	--
NICKEL SUBSULFIDE	012035-72-2	--	--	A	--	--
NICKEL (SOLUBLE SALTS)	007440-02-0	2E-2	--	--	--	--
NICKEL REFINERY DUST	NO CASRN	--	--	A	--	--
NITAPYRIN	001929-82-4	1.5E-3	--	--	--	--

NAME	CASRN	ORAL R/D (mg/kg/day)	INHAL R/C (mg/cu m)	EPA GROUP	ORAL SLOPE FACTOR (mg/kg/day) ⁻¹	INHAL SLOPE FACTOR (mg/kg/day) ⁻¹
NITRATE	014797-55-8	1.6E+0	--	--	--	--
NITRIC OXIDE	010102-43-9	1E-1	--	--	--	--
NITRITE	014797-65-0	1E-1	--	--	--	--
NITROBENZENE	000098-95-3	5E-4	--	D	--	--
NITROGEN DIOXIDE	010102-44-0	1E+0	--	--	--	--
NITROGUANIDINE	000556-88-7	1E-1	--	D	--	--
NITROPROPANE, 2-	000079-46-9	--	2E-2	--	--	--
NITROSODI-N-PROPYLAMINE, N-	000621-64-7	--	--	B2	7.0	--
NITROSODI-N-BUTYLAMINE, N-	000924-16-3	--	--	B2	5.4E+0	--
NITROSODIETHANOLAMINE, N-	001116-54-7	--	--	B2	2.8E+0	--
NITROSODIETHYLAMINE, N-	000055-18-5	--	--	B2	1.50E+2	--
NITROSODIMETHYLAMINE, N-	000062-75-9	--	--	B2	5.1E+1	--
NITROSODIPHENYLAMINE, N-	000086-30-6	--	--	B2	4.9E-3	--
NITROSOMETHYLETHYLAMINE, N-	010595-95-6	--	--	B2	2.2E+1	--
NITROSOPYRROLIDINE, N-	000930-55-2	--	--	B2	2.1	--
NONABROMODIPHENYL ETHER	063936-56-1	--	--	D	--	--
NORFLURAZON	027314-13-2	4E-2	--	--	--	--
NUSTAR	085509-19-9	7E-4	--	--	--	--
OCTABROMODIPHENYL ETHER	032536-52-0	3E-3	--	D	--	--
OCTAHYDRO-1,3,5,7-TETRANITRO- 1,3,5,7-TETRAZOCINE	002691-41-0	5E-2	--	D	--	--
ORYZALIN	019044-88-3	5E-2	--	C	--	--
OXADIAZON	019666-30-9	5E-3	--	--	--	--
OXAMYL	023135-22-0	2.5E-2	--	--	--	--
PACLOBUTRAZOL	076738-62-0	1.3E-2	--	--	--	--
PARAQUAT	001910-42-5	4.5E-3	--	C	--	--
PARATHION	000056-38-2	--	--	C	--	--
PENDIMETHALIN	040487-42-1	4E-2	--	--	--	--
PENTABROMODIPHENYL ETHER	032534-81-9	2E-3	--	D	--	--
PENTACHLOROBENZENE	000608-93-5	8E-4	--	--	--	--
PENTACHLOROCYCLOPENTADIENE	025329-35-5	--	--	D	--	--
PENTACHLORONITROBENZENE	000082-68-8	3E-3	--	--	--	--
PENTACHLOROPHENOL	000087-86-5	3E-2	--	B2	1.2E-1	--
PERMETHRIN	052645-53-1	5E-2	--	--	--	--

NAME	CASRN	ORAL RfD (mg/kg/day)	INHAL RfC (mg/cu m)	EPA GROUP	ORAL SLOPE FACTOR (mg/kg/day) ¹	INHAL SLOPE FACTOR (mg/kg/day) ¹
PHENANTHRENE	000085-01-8	--	--	D	--	--
PHENMEDIPHAM	013684-63-4	2.5E-1	--	--	--	--
PHENOL	000108-95-2	6E-1	--	D	--	--
PHENYLENEDIAMINE, M-	000108-45-2	6E-3	--	-	--	--
PHENYLMERCURIC ACETATE	000062-38-4	8E-5	--	--	--	--
PHOSMET	000732-11-6	2E-2	--	--	--	--
PHOSPHINE	007803-51-2	3E-4	--	D	--	--
PHTHALIC ANHYDRIDE	000085-44-9	2E+0	--	--	--	--
PICLORAM	001918-02-1	7E-2	--	--	--	--
PIRIMIPHOS-METHYL	029232-93-7	1E-2	--	--	--	--
POLYCHLORINATED BIPHENYLS	001336-36-3	--	--	B2	7.7	--
POTASSIUM CYANIDE	000151-50-8	5E-2	--	--	--	--
POTASSIUM SILVER CYANIDE	000506-61-6	2E-1	--	--	--	--
PROCHLORAZ	067747-09-5	9E-3	--	C	1.5E-1	--
PROMETON	001610-18-0	1.5E-2	--	--	--	--
PROMETRYN	007287-19-6	4E-3	--	--	--	--
PRONAMIDE (KERB)	023950-58-5	7.5E-2	--	--	--	--
PROPACHLOR	001918-16-7	1.3E-2	--	--	--	--
PROPANIL	000709-98-8	5E-3	--	--	--	--
PROPARGITE	002312-35-8	2E-2	--	--	--	--
PROPARGYL ALCOHOL	000107-19-7	2E-3	--	--	--	--
PROPAZINE	000139-40-2	2E-2	--	--	--	--
PROPHAM	000122-42-9	2E-2	--	--	--	--
PROPICONAZOLE	060207-90-1	1.3E-2	--	--	--	--
PROPIONIC ACID, 2(2,4,5- TRICHLOROPHENOXY)-	000093-72-1	8E-3	--	D	--	--
PROPYLENE GLYCOL MONOMETHYL ETHER	000107-98-2	--	2	--	--	--
PROPYLENE OXIDE	000075-56-9	--	3E-2	B2	2.4E-1	--
PURSUIT	081335-77-5	2.5E-1	--	--	--	--
PYDRIN	051630-58-1	2.5E-2	--	--	--	--
PYRENE	000129-00-0	3E-2	--	D	--	--
PYRIDINE	000110-86-1	1E-3	--	--	--	--
QUINALPHOS	013593-03-8	5E-4	--	--	--	--
RALLY (SYSTHANE)	088671-89-0	2.5E-2	--	--	--	--

NAME	CASRN	ORAL RfD (mg/kg/day)	INHAL RfC (mg/cu m)	EPA GROUP	ORAL SLOPE FACTOR (mg/kg/day) ¹	INHAL SLOPE FACTOR (mg/kg/day) ¹
REFRACTORY CERAMIC FIBERS	UNKNOWN			B2		
RESMETHRIN	010453-86-8	3E-2	--	--	--	--
ROTENONE	000083-79-4	4E-3	--	--	--	--
SAVEY	078587-05-0	2.5E-2	--	--	--	--
SELENIOS ACID	007783-00-8	5E-3	--	D	--	--
SELENIUM AND COMPOUNDS	007782-49-2	5E-3	--	D	--	--
SELENIUM SULFIDE	007446-34-6	--	--	B2	--	--
SETHOXYDIM	074051-80-2	9E-2	--	--	--	--
SILVER	007440-22-4	5E-3	--	D	--	--
SILVER CYANIDE	000506-64-9	1E-1	--	--	--	--
SODIUM DIETHYLDITHIOCARBAMATE	000148-18-5	3E-2	--	--	--	--
SODIUM FLUOROACETATE	000062-74-8	2E-5	--	--	--	--
SODIUM CYANIDE	000143-33-9	4E-2	--	--	--	--
SODIUM AZIDE	026628-22-8	4E-3	--	--	--	--
SODIUM ACIFLUORFEN	062476-59-9	1.3E-2	--	--	--	--
STIROFOS (TETRACHLORVINPHOS)	000961-11-5	3E-2	--	--	--	--
STRONTIUM	007440-24-6	4E-1				
STRYCHNINE	000057-24-9	3E-4	--	--	--	--
STYRENE	000100-42-5	2E-1	--	--	--	--
TEBUTHIURON	034014-18-1	5E-2	--	--	--	--
TERBACIL	005902-51-2	1.3E-2	--	--	--	--
TERBUTRYN	000886-50-0	1E-3	--	--	--	--
TETRABROMODIPHENYL OXIDE	040088-47-9	--	--	D	--	--
TETRACHLOROBENZENE, 1,2,4,5-	000095-94-3	3E-4	--	B2	1.6	--
TETRACHLOROCYCLOPENTADIENE	000695-77-2	--	--	D	--	--
TETRACHLOROETHANE, 1,1,1,2-	000630-20-6	3E-2	--	C	2.6E-2	--
TETRACHLOROETHANE, 1,1,2,2-	000079-34-5	--	--	C	2.0E-1	--
TETRACHLOROETHYLENE, 1,1,2,2-	000127-18-4	1E-2	--	--	--	--
TETRACHLOROPHENOL, 2,3,4,6-	000058-90-2	3E-2	--	--	--	--
TETRACHLOROTEREPHTHALIC ACID, 2,3,5,6-, DIMETHYL ESTER (DACTHAL)	001861-32-1	5E-1	--	--	--	--
TETRAETHYL LEAD	000078-00-2	1E-7	--	--	--	--
TETRAETHYLDITHIOPYROPHOSPHATE	003689-24-5	5E-4	--	--	--	--
THALLIC OXIDE	001314-32-5	--	--	D	--	--

NAME	CASRN	ORAL RfD (mg/kg/day)	INHAL RfC (mg/cu m)	EPA GROUP	ORAL SLOPE FACTOR (mg/kg/day) ⁻¹	INHAL SLOPE FACTOR (mg/kg/day) ⁻¹
THALLIUM (I) ACETATE	000563-68-8	9E-5	--	D	--	--
THALLIUM (I) CARBONATE	006533-73-9	8E-5	--	D	--	--
THALLIUM (I) CHLORIDE	007791-12-0	8E-5	--	D	--	--
THALLIUM (I) NITRATE	010102-45-1	9E-5	--	D	--	--
THALLIUM SELENITE	012039-52-0	9E-5	--	D	--	--
THALLIUM SULFATE	007446-18-6	8E-5	--	D	--	--
THIOBENCARB	028249-77-6	1E-2	--	--	--	--
THIOPHANATE-METHYL	023564-05-8	8E-2	--	--	--	--
THIRAM	000137-26-8	5E-3	--	--	--	--
TOLUENE	000108-88-3	2E-1	4E-1	D	--	--
TOXAPHENE	008001-35-2	--	--	B2	1.1	--
TRALOMETHRIN	066841-25-6	7.5E-3	--	--	--	--
TRIALATE	002303-17-5	1.3E-2	--	--	--	--
TRIASULFURON	082097-50-5	1E-2	--	--	--	--
TRIBROMOBENZENE, 1,2,4-	000615-54-3	5E-3	--	--	--	--
TRIBROMOCHLOROMETHANE	000594-15-0	--	--	D	--	--
TRIBROMODIPHENYL ETHER	049690-94-0	--	--	D	--	--
TRIBUTYL TIN OXIDE	000056-35-9	3E-5	--	--	--	--
TRICHLORO-1,2,2- TRIFLUOROETHANE, 1,1,2-	000076-13-1	3E+1	--	--	--	--
TRICHLOROBENZENE, 1,2,4-	000120-82-1	1E-2	--	D	--	--
TRICHLOROCYCLOPENTADIENE	077323-84-3	--	--	D	--	--
TRICHLOROETHANE, 1,1,1-	000071-55-6	--	--	D	--	--
TRICHLOROETHANE, 1,1,2-	000079-00-5	4E-3	--	C	5.7E-2	--
TRICHLOROETHYLENE	000079-01-6	--	--	--	--	--
TRICHLOROFLUOROMETHANE	000075-69-4	3E-1	--	--	--	--
TRICHLOROPHENOL, 2,4,5-	000095-95-4	1E-1	--	--	--	--
TRICHLOROPHENOL, 2,4,6-	000088-06-2	--	--	B2	1.1E-2	--
TRICHLOROPHENOXYACETIC ACID, 2,4,5-	000093-76-5	1E-2	--	--	--	--
TRICHLOROPROPANE, 1,1,2-	000598-77-6	5E-3	--	--	--	--
TRICHLOROPROPANE, 1,2,3-	000096-18-4	6E-3	--	--	--	--
TRIDIPHANE	058138-08-2	3E-3	--	--	--	--
TRIETHYLAMINE	000121-44-8	--	7E-3	--	--	--
TRIFLURALIN	001582-09-8	7.5E-3	--	C	7.7E-3	--

NAME	CASRN	ORAL RfD (mg/kg/day)	INHAL RfC (mg/cu m)	EPA GROUP	ORAL SLOPE FACTOR (mg/kg/day) ⁻¹	INHAL SLOPE FACTOR (mg/kg/day) ⁻¹
TRINITROBENZENE, 1,3,5-	000099-35-4	5E-5	--	--	--	--
TRINITROTOLUENE, 2,4,6-	000118-96-7	5E-4	--	C	3.0E-2	--
URANIUM (SOLUBLE SALTS)	NO CASRN	3E-3	--	--	--	--
VANADIUM PENTOXIDE	001314-62-1	9E-3	--	--	--	--
VERNOLATE	001929-77-7	1E-3	--	--	--	--
VINCLOZOLIN	050471-44-8	2.5E-2	--	--	--	--
VINYL ACETATE	000108-05-4	--	2E-1	--	--	--
WARFARIN	000081-81-2	3E-4	--	--	--	--
WHITE PHOSPHORUS	007723-14-0	2E-5	--	D	--	--
XYLENE, MIXTURE	001330-20-7	2E+0	--	D	--	--
ZINC AND COMPOUNDS	007440-66-6	3E-1	--	D	--	--
ZINC CYANIDE	000557-21-1	5E-2	--	--	--	--
ZINC PHOSPHIDE	001314-84-7	3E-4	--	--	--	--
ZINEB	012122-67-7	5E-2	--	--	--	--

EPA CARCINOGENICITY GROUPS

A = HUMAN CARCINOGEN

B1 = PROBABLE HUMAN CARCINOGEN

Limited evidence in human studies

B2 = PROBABLE HUMAN CARCINOGEN

Sufficient evidence from animal studies, inadequate evidence or no data from human studies

C = POSSIBLE HUMAN CARCINOGEN

D = NOT CLASSIFIABLE AS TO HUMAN CARCINOGENICITY

ALPHABETICAL INDEX TO STATUTES

INDEX TO RU NUMBERS BY CFR CITATION

September/October 1992

CFR CITATION	RU NUMBER	PAGE	CFR CITATION	RU NUMBER	PAGE
ARCHEOLOGICAL RESOURCES PROTECTION ACT					
18 CFR 1312	090-001.00			100-297.00	
32 CFR 229	090-001.00		10 CFR 834	100-284.00	
36 CFR 79	090-002.01		10 CFR 835	100-289.00	
36 CFR 296	090-001.00		40 CFR 191	100-129.00	
43 CFR 7	090-001.00		40 CFR 194	100-018.00	
ATOMIC ENERGY ACT					
10 CFR 11	100-294.00	44	BIOTECHNOLOGY		
10 CFR 19	100-041.00		40 CFR 704	110-005.00	70
10 CFR 19-21	100-294.00		40 CFR 720	110-005.00	
10 CFR 20	100-039.00		40 CFR 721	110-005.00	
10 CFR 25-26	100-294.00		COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT		
10 CFR 26	100-179.01		40 CFR undetermined	180-106.00	13
10 CFR 30	100-276.00		40 CFR 117	180-042.00	
10 CFR 30-35	100-294.00			180-105.00	
10 CFR 31	100-249.00		40 CFR 271	180-105.00	
10 CFR 32	100-249.00		40 CFR 300	180-092.00	
10 CFR 36	100-187.00			180-096.00	
10 CFR 39-40	100-294.00			180-111.00	
10 CFR 40	100-276.00			180-112.00	
	100-288.00			180-120.00	
	100-304.00		40 CFR 302	180-126.00	
10 CFR 50	100-131.00			180-042.00	
	100-214.00			180-056.00	
	100-222.00			180-072.00	
	100-224.00		40 CFR 302.4	180-105.00	
	100-233.00		40 CFR 307	180-119.00	
	100-258.00		40 CFR 308	180-031.00	
	100-258.01		40 CFR 310	180-096.00	
	100-294.00		40 CFR 310	180-065.00	
	100-300.00		40 CFR 355	180-042.00	
	100-303.00			180-072.00	
10 CFR 51	100-033.00		40 CFR 373	180-105.00	
10 CFR 52	100-265.00			180-088.00	
10 CFR 52-55	100-303.00		43 CFR 11	180-025.00	
10 CFR 60-61	100-294.00			180-077.00	
10 CFR 70	100-276.00		CLEAN AIR ACT		
10 CFR 70-75	100-288.00		40 CFR Ch. 1	120-155.00	31
10 CFR 71	100-294.00		40 CFR 15	120-190.00	
10 CFR 72	100-157.00		40 CFR 50	120-005.00	
	100-276.00		40 CFR 50.8	120-084.00	
	100-288.00		40 CFR 50.9	120-006.00	
10 CFR 73	100-298.00		40 CFR 50.11	120-083.00	
10 CFR 95	100-294.00		40 CFR 50.12	120-148.00	
10 CFR 100	100-303.00		40 CFR 51	120-005.00	
10 CFR 110	100-252.00			120-010.00	
	100-275.00			120-171.00	
	100-294.00			120-186.00	
10 CFR 140	100-053.00			120-191.00	
	100-294.00			120-204.00	
10 CFR 150	100-294.00		40 CFR 52	120-205.00	
10 CFR 725	100-256.00			120-010.00	
10 CFR 830	100-290.00			120-075.00	
				120-171.00	

	120-179.00
	120-186.00
	120-203.00
	120-204.00
40 CFR 58	120-005.00
	120-170.00
	120-170.01
40 CFR 60	120-116.00
	120-158.00
	120-204.00
40 CFR 61	120-055.00
	120-117.00
	120-118.03
	120-118.04
	120-149.00
40 CFR 63	120-093.00
	120-103.00
	120-149.00
	120-167.00
	120-168.00
	120-176.00
	120-177.00
	120-181.00
	120-183.00
	120-184.00
	120-187.00
	120-198.00
40 CFR 70	120-173.00
40 CFR 71	120-173.00
40 CFR 72	120-189.00
40 CFR 73	120-189.00
40 CFR 75	120-189.00
40 CFR 77	120-189.00
40 CFR 81	120-188.00
40 CFR 82	120-503.00
	120-505.00
	120-506.00
	120-507.00
	120-508.00
	120-509.00
40 CFR 88	120-175.00
40 CFR 135	120-200.00
CFR undetermined	120-178.00
	120-199.00
	120-201.00
 CLEAN WATER ACT	
33 CFR 323	140-120.00
33 CFR 328	140-120.00
 40 CFR undetermined	140-108.00
40 CFR Subchapter N	140-109.00
40 CFR 110	140-120.00
40 CFR 112	140-120.00
40 CFR 116-117	140-120.00
40 CFR 122	140-039.00
	140-071.00
	140-085.03
	140-085.04
	140-120.00
40 CFR 122.21(j)	140-084.00
40 CFR 122-124	140-103.00
40 CFR 122-125	140-067.00
40 CFR 123	140-071.00
40 CFR 124	140-039.00
40 CFR 125	140-039.00
	140-110.00
40 CFR 131	140-066.00
40 CFR 136	140-018.00
	140-018.01
	140-089.00
	140-116.00

23

40 CFR 230	140-104.00
	140-120.00
40 CFR 231	140-041.00
40 CFR 232	140-120.00
40 CFR 232.2(q)	140-111.00
40 CFR 233	140-104.00
40 CFR 257	140-035.00
40 CFR 260	140-116.00
40 CFR 261	140-116.00
40 CFR 300.440	140-095.00
40 CFR 402	140-120.00
40 CFR 403	140-067.00
40 CFR 414	140-095.00
40 CFR 434	140-067.00
40 CFR 501	140-067.00
	140-071.00
	140-103.00
40 CFR 503	140-035.00

COASTAL ZONE MANAGEMENT ACT

71

15 CFR 921	160-002.00
------------	------------

ENDANGERED SPECIES ACT

66

50 CFR 17	200-039.00
	200-049.00
	200-052.00
	200-056.00
	200-057.00
	200-058.00
50 CFR 226	200-059.00

FEDERAL MINE SAFETY AND HEALTH ACT

69

30 CFR 56	330-004.00
30 CFR 56-58	330-005.00
30 CFR 57	330-004.00
30 CFR 70-72	330-005.00
30 CFR 75	330-005.00
30 CFR 90	330-005.00
CFR undetermined	330-006.00

FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT

68

40 CFR 165	300-003.00
40 CFR 170	300-004.00
40 CFR 171	300-021.00
40 CFR 172	300-014.00

HAZARDOUS MATERIALS TRANSPORTATION ACT

55

49 CFR 107	400-132.00
49 CFR 148	400-080.00
49 CFR 171	400-073.00
	400-095.00
	400-127.00
	400-125.00
49 CFR 171-174	400-132.00
49 CFR 171-177	400-040.00
49 CFR 171-178	400-093.00
	400-044.00
49 CFR 171-179	400-073.00
49 CFR 172	400-095.00
	400-126.00
	400-127.00
49 CFR 173	400-057.00
	400-095.00
	400-118.00
	400-127.00
49 CFR 174	400-129.00
49 CFR 175	400-073.00

CFR CITATION	RU NUMBER	PAGE	CFR CITATION	RU NUMBER	PAGE
49 CFR 176	400-125.00			780-029.00	
49 CFR 177	400-129.00			780-030.00	
49 CFR 178	400-127.00			780-041.00	
49 CFR 180	400-127.00			780-042.00	
49 CFR 192	400-039.00			780-044.00	
	400-063.00			780-045.00	
	400-064.00			780-047.00	
	400-097.00			780-052.00	
	400-099.00			780-054.00	
	400-112.00			780-057.00	
	400-113.00			780-058.00	
	400-121.00			780-062.00	
	400-128.00			780-063.00	
49 CFR 195	400-039.00			780-064.00	
	400-063.00		29 CFR 1910.134	780-011.00	
	400-064.00		29 CFR 1910.146	780-051.00	
	400-110.00		29 CFR 1910.1000	780-025.00	
	400-112.00		29 CFR 1915	780-009.00	
49 CFR 397	400-120.00			780-029.00	
	400-061.00			780-062.00	
HISTORIC SITES ACT OF 1935		70	29 CFR 1915.152	780-011.00	
36 CFR 62	410-004.00		29 CFR 1917-1918	780-062.00	
			29 CFR 1918.102	780-011.00	
			29 CFR 1926	780-009.00	
LOW-LEVEL RADIOACTIVE WASTE (LLW) POLICY AMENDMENTS ACT		42		780-020.00	
10 CFR 20	740-013.00			780-021.00	
	740-019.00			780-029.00	
	740-021.00			780-044.00	
10 CFR 50	740-026.00			780-062.00	
10 CFR 61	740-021.00		29 CFR 1926.103	780-064.00	
	740-025.00		29 CFR 1928	780-011.00	
	740-027.00			780-062.00	
	740-028.00		OTHER		71
40 CFR 193	740-003.00		10 CFR 1046	805-048.00	
40 CFR 764	740-003.00				
MARINE PROTECTION, RESEARCH, AND SANCTUARIES ACT		67	33 CFR 328	805-049.00	
40 CFR 228	460-016.00				
NUCLEAR WASTE POLICY ACT		41	40 CFR 110	805-049.00	
10 CFR 50	700-078.00		40 CFR 116	805-049.00	
10 CFR 52	700-078.00		40 CFR 117	805-049.00	
10 CFR 60	700-022.00		40 CFR 122	805-049.00	
	700-069.00		40 CFR 230	805-049.00	
	700-074.00				
10 CFR 72	700-080.00		50 CFR Ch.I and IV	805-049.00	
OIL POLLUTION ACT OF 1990		29	7 CFR 12	805-049.00	
15 CFR Ch. IX	145-001.00		POLLUTION PREVENTION ACT		19
30 CFR 250	145-007.00		40 CFR 372	195-002.00	
33 CFR 135	145-006.00		RESOURCE CONSERVATION AND RECOVERY ACT		1
33 CFR 136	145-006.00		40 CFR Chapter 1	840-211.01	
33 CFR 137	145-006.00		40 CFR 148	840-146.00	
			40 CFR 239	840-287.00	
40 CFR 112	145-002.00		40 CFR 241	840-265.00	
40 CFR 300	145-003.00		40 CFR 257	840-051.00	
OCCUPATIONAL SAFETY AND HEALTH ACT		61	40 CFR 258	840-051.00	
29 CFR 1904	780-059.00		40 CFR 259	840-244.00	
	780-061.00		40 CFR 260	840-009.00	
29 CFR 1910	780-009.00			840-024.00	
				840-056.00	
				840-146.00	
				840-171.00	
				840-173.00	
			40 CFR 260	840-173.01	
				840-251.00	

[illegible]

CFR CITATION	RU NUMBER	PAGE	CFR CITATION	RU NUMBER	PAGE
40 CFR 798	920-130.00				
40 CFR 799	920-113.00				
	920-123.00				
	920-129.00				
CFR undetermined	920-127.00				
URANIUM MILL TAILINGS RADIATION CONTROL ACT					
		52			
10 CFR 764	930-034.00				
40 CFR 192	930-029.00				
	930-038.00				

INTERNAL DISTRIBUTION

1.	Vince Adams	68.	E. B. Lewis
2.	M. L. Ambrose	69.	K. H. Lin
3.	Lori Anderson	70.	C. A. Little
4.	C. F. Baes	71.	Doug Lombardi
5.	Cheryl Baker	72.	L. W. Long
6.	B. O. Barritt	73.	M. P. Maskarines
7.	F. P. Baxter	74.	E. W. McDaniels
8.	Luci Bell	75.	P. L. McKenny
9.	B. A. Berven	76.	L. J. Mezga
10.	T. J. Blasing	77.	R. L. Miller
11.	Gary Bodenstein	78.	C. R. Miskelley
12.	H. M. Braunstein	79.	M. E. Mitchell
13.	K. J. Brown	80.	Debbie Mohrbacher
14.	David Buhaly	81.	N. B. Munro
15.	Rickie E. Byrd	82.	F. E. Myer
16.	D. C. Canada	83.	C. E. Nix
17.	J. B. Cannon	84.	Terry Olberding
18.	E. W. Carroll	85.	Ernie O'Toole
19.	L. B. Cobb	86-89.	P. T. Owen
20.	Rick Collier	90.	Joe Pardue
21.	Tom Conley	91.	W. H. Pechin
22.	K. W. Cook	92.	T. P. Perry
23.	N. H. Cutshall	93.	R. W. Pointer
24.	N. S. Dailey	94.	M. L. Poutsma
25.	J. A. Darling	95.	R. R. Rawl
26.	D. L. Daugherty	96.	R. M. Reed
27.	Joyce Dickerman	97.	Suzi Riddle
28.	James Donnelly	98.	M. S. Salk
29.	J. M. Eaton	99.	Gabrielle Santore
30.	G. K. Eddlemon	100.	C. J. Satterwhite
31.	C. H. Estes	101.	C. A. Schrof
32.	E. L. Etnier	102.	Pat Scofield
33.	John Fackenthal	103.	J. A. Shaakir-Ali
34.	Paula Flowers	104.	F. E. Sharples
35.	M. W. Francis	105.	Lisa Shipe
36.	A. F. Fredrick	106.	C. F. Sigmon
37.	K. V. Gabrielson	107.	Ellen Smith
38.	S. B. Garland	108.	Maria Socolof
39.	S. M. Glenn	109.	Linda Synnott
40.	W. D. Goddard	110-111.	M. F. Tardiff
41.	C. D. Goins, Jr.	112.	G. M. Taylor
42.	Carol Hardy	113.	Pat Taylor
43.	G. T. Hawkins	114.	W. A. Thomas
44.	J. L. Haymore	115.	L. M. Thompson
45.	C. L. Heckman	116.	W. T. Thompson
46.	C. C. Hill	117.	C. S. Tucker
47.	R. R. Hinton	118.	C. K. Valentine
48.	Jean Hitch	119.	J. E. Van Cleve
49.	S. K. Holladay	120.	T. J. Vitkus, ORAU
50.	L. M. Houlberg	121.	Ann Walzer
51.	P. S. Hovatter	122.	C. W. Weber
52.	Linda Hubbard	123.	G. E. Whittlinger
53.	Wendy Hudson	124.	S. W. Wiley
54.	Mallory Humphreys	125.	D. M. Willaford
55.	J. L. Johnson	126.	J. K. Williams
56.	R. L. Jolley	127.	Margaret Wilson
57.	C. G. Jones	128.	Gwen Wise
58.	Dan Jones	129.	G. K. Youngen
59.	T. A. Jones	130.	Central Research Library
60.	R. A. Jump	131.	ESD Library
61.	A. V. Keebler	132-133.	Laboratory Records Department
62.	R. H. Kingrea	134.	Laboratory Records, RC
63.	D. C. Kocher	135.	ORNL Patent Office
64.	Francis Kovac	136.	ORNL Y-12 Technical Library
65.	Denton Lankford		
66.	B. D. Lawson		
67.	Allen Lewis		

EXTERNAL DISTRIBUTION

137. David Abbott, EG&G Mound Applied Technologies, P.O. Box 3000, Miamisburg, OH 45343
138. Marjorie Adams, Woodward-Clyde Federal Services, #1 Church St., Suite 404, Rockville, MD 20850
139. Janis M. Adkins, Technology & Management Services, Inc., 20201 Century Boulevard, Germantown, MD 20874
140. Pete Alexandro, NUS, 910 Clopper Road, P.O. Box 6032, Gaithersburg, MD 20877-0962
141. Stuart Altman, U.S. DOE, DP-644, GTN, Washington, DC 20545
142. Lauren B. Ames, Santa Fe Engineering, Ltd., 1429 Second St., Santa Fe, NM 87501
143. B. R. Anderson, B&W Idaho Inc., 1580 Sawtelle, Box 1469, Idaho Falls, ID 83403
144. C. A. Anderson, Environmental Scientist, Idaho Operations Office, 785 DOE Place, MS #1116, Idaho Falls, ID 83402
145. Lt. Col. Craig Anderson, HQ TAC/JAV, Langley AFB, VA 23665
146. Carl Angoli, U.S. Dept of Energy, Morgantown Energy Tech Ctr, P.O. Box 880, Morgantown, WV 26507-0880
147. Cassandra Anthony, SAIC, P.O. Box 2501, 800 Oak Ridge Turnpike, Oak Ridge, TN 37830
148. Glenda Arave, Babcock & Wilcox, INEL, MS-0324, P.O. Box 1469, Idaho Falls, ID 83402
149. John W. Arendt, Chair, ANSI N14, 109 Caldwell Drive, Oak Ridge, TN 37830
150. William E. Armour, U.S. DOE, DP-9.21, Office of Self-Assessment, GTN, CXXI, Washington, DC 20585
151. Dennis R. Armstrong, Environmental Protection Group, (EM-8), Box 1663, MS-k490, Los Alamos, NM 87545
152. Army Environmental Office, Attn: ENVR-EP/Cabellon, Rm.1E677, Pentagon, Washington, DC 20310-2600
153. Department of the Army, CETHA-EC-A/Bruce Pringel, U.S. Army Toxic & Hazardous Materials Agency, Aberdeen Proving Ground, MD 21010-5401
154. Richard Artz, NOAA, Air Resources Lab, SSMC11, Rm. 9358, R/E/AR, 1325 East West Highway, Silver Springs, MD 20910
155. Irene Atney-Yurdin, Attorney, Brookhaven Area Office, 53 Bell Avenue, Upton, NY 11973
156. Andy Avel, U.S. Department of Energy, P.O. Box 398705, Cincinnati, OH 45239-8705
157. Donna Avery, EG&G, P.O. Box 1625, MS-1407, Idaho Falls, ID 83415-1407
158. Jon E. Baer, Director, Landscape Architectural Service (08884), Office of Facilities, Department of Veteran Affairs, 810 Vermont Avenue NW, Washington, DC 20420
159. James Bachmier, U.S. DOE, EH-232, GA-098, 1000 Independence Avenue, Washington, DC 20585
160. Arthur Baisley, Westinghouse Environmental Management Company of Ohio, P.O. Box 288, Miamitown, OH 45041-0288
161. Charlotte Baker, Environment, Health, and Safety, University of California, Irvine, CA 92717
162. Lynn W. Ball, EG&G Idaho, P.O. Box 1625, MS-1540, Idaho Falls, ID 83415
163. Steven M. Balone, DOE - Office of Environmental Restoration, 19060 Cherry Bend Drive, Germantown, MD 20874
164. Ralph Barr, NUS Corporation, 910 Clopper Road, P.O. Box 6032, Gaithersburg, MD 20877-0962
165. Gregory L. Barrett, Argonne National Laboratory, 9700 S. Cass Avenue, Building 214/EWM, Argonne, IL 60439
166. Kris Barrett, Mitre Corp (HSD/YAQ), Brooks Air Force Base, TX 78235-5000

167. Pat Bartlett, ASO-463-8, FAA Southern Region, 3400 Norman Berry Drive, P.O. Box 20636, East Point, GA 30344
168. Lisa A. Bartsche, U.S. DOE, Princeton Area Office, P.O. Box 102, Princeton, NJ 08542
169. John Bascietto, EH-231, GA-076, U.S. DOE, Forrestal Building, 1000 Independence Avenue, Washington DC 20585
170. Jo-Ann Bassi, U.S. DOE, EM-351, TRV-2, Washington, DC 20585
171. John Baublitz, NE-20, E-420, U.S. Department of Energy, Washington, DC 20545
172. Linda Bauer, EG&G Mound Applied Technologies, P.O. Box 3000, Miamisburg, OH 45343
173. Paul M. Beam, U.S. DOE, EM-43, 1000 Independence Avenue, Washington, DC 20585-0002
174. Pat Bean, U.S. DOE, DP-534, GTN, Washington, DC 20585
175. G. B. Becker, R3-28, P.O. Box 1970, Richland, WA 99352
176. Heino Beckert, U.S. DOE, EH-232, Forrestal Building, 1000 Independence Avenue, Washington, DC 20585
177. Walter C. E. Beddoes, Defense Logistics Agency, DLA-S (RPDSO), Cameron Station, VA 22304
178. Henry Beiro, ENSAFE, 5724 Summer Trees Drive, Memphis, TN 38134
179. Jerry Bell, Richland Operations Office, P.O. Box 550, Richland, WA 99352
180. Dr. John C. Belshe', Corps of Eng., DAEN-CWP-P, Rm. 7113, 20 Massachusetts Ave., N.W., Washington, DC 20314
181. Cathy Benediktsson, AAL-465H, FAA Alaskan Region, 222 West 7th Avenue, #14, Anchorage, AK 99513-7587
182. Paul J. Bennice, General Electric Company, Knolls Atomic Power Laboratory, P.O. Box 1072, Schenectady, NY 12301
183. S.J. Bensussen, Kaiser Engineers Hanford Company, P.O. Box 888, Richland, WA 99352
184. Janie Benton, NE-33, 19901 Germantown Rd., USDOE, Washington, DC 20545
185. Chris Bergren, Westinghouse Savannah River Company, Environmental Protection Department, Building 992-4W, P.O. Box 616, Aiken, SC 29802
186. William J. Berry, EG&G, P.O. Box 1625, Idaho Falls, ID 83415
187. Raymond P. Berube, EH-20, 7A-075, U.S. Department of Energy, 1000 Independence Ave., Washington, DC 20585
188. Laura Beseris, 785 DOE Place, MS-1146, Idaho Falls, ID 83401-1562
189. Charles W. Billups, AC-1/FORST, U.S. Department of Energy, Washington, DC 20585
190. Helen Bilson, U.S. DOE, DP-635, GTN, Washington, DC 20585
191. Frank Bingham, HPE/ECB, U.S. DOE, Nevada Operations Office, P.O. Box 98518, Las Vegas, NV 89193-8518
192. Walt Bird, Argonne National Laboratory, 9700 South Cass Avenue, ES&H Division, Bldg. 201, Argonne, IL 60439
193. Robert Bleil, Chem-Nuclear Geotech, P.O. Box 1400, Grand Junction, CO 81502
194. Warren Bodily, Kasier Engineering-Hanford, P.O. Box 888, Richland, WA 99352
195. Carol Boghosian, DOE/LBL Site Office, Mail Stop 50B-3238, Lawrence Berkeley Laboratory, One Cyclotron Road, Berkeley, CA 94720
196. James E. Bolen, USDOE-ECD, Savannah River Site, P.O. Box A, Aiken, SC 29803
197. Carol Borgstrom, Director, Office of NEPA Oversight, U.S. Department of Energy, EH-25, Rm. 3E-080, 1000 Independence Ave., S.W., Washington, DC 20585
198. A. M. Bosch, Paducah Gaseous Diffusion Plant, P.O. Box 1410, Paducah, KY 42001

199. O. Lee Bostic, NW Westinghouse Environmental Center, 1234 Columbia Drive, Suite 203, Richland, WA 99352-4762
200. Brett R. Bowhan, U.S. DOE, Idaho Field Office, 785 DOE Place, Idaho Falls, ID 83404
201. Gerald C. Bowman, U.S. DOE, Idaho Field Office, 785 DOE Place, MS-1218, Idaho Falls, ID 83401
202. Dave Breault, Knolls Atomic Power Lab, P.O. Box 1072, Mail Stop Z-3, Schenectady, NY 12301-1072
203. Susan R. Brechbill, U.S. DOE, OCC, 1333 Broadway, Oakland, CA 94612
204. Major Tim Bridges, HQ TAC/DEVP, Langley Air Force Base, VA 23665-5000
205. David Broaden, Westinghouse Savannah River Company, Building 703-H, Room 128, Aiken, SC 29802
206. William A. Brobst, President, The Transport Environment, 6072 Currituck Road, Kitty Hawk, NC 27949
207. Robert T. Broili, NUS, 900 Trail Ridge Road, Aiken, SC 29801
208. Steven C. Brooks, Radian Corporation, 120 S. Jefferson Circle, Oak Ridge, TN 37830
209. D. E. Brown, Env. Protection Specialist, Kansas City Division, Dept 144-OB29, Allied-Signal Corp, P.O. Box 419159, Kansas City, MO 64141-6159
210. Tracy Brown, Battelle, Jackson Plaza, Suite 300, 800 Oak Ridge Turnpike, Oak Ridge, TN 37831
211. J. E. Bruce, Rockwell-INEL, P.O. Box 1469, Mail Stop 2700, Idaho Falls, ID 83403
212. Christopher A. Brudecki, Ogden Environmental & Energy Services, 800 Oak Ridge Turnpike, Suite 103, Oak Ridge, TN 37830
213. Steve Buckley, Office of Quality Assurance/Quality Control, U.S. DOE, EM-20, Rm 1G-066, 1000 Independence Ave., Washington, DC 20585
214. R. M. Burd, Halliburton-NUS, 900 Trail Ridge Road, Aiken, SC 29803
215. Charles Burger, U.S. DOE, NS-40, Rm. 5H-021, 1000 Independence Avenue, Washington, DC 20585
216. Dr. Gordon Burley, U.S. EPA, ANR-458, 401 M St., S.W., Washington, DC 20460
217. Kenneth Burns, General Electric Company, 5E Carriage House East, Manlius, NY 13104
218. Susan M. Burrill, Arthur D. Little, Inc., 20 Acorn Park, Cambridge, MA 02140-2390
219. LTC Jessie B. Cabellon, Office of the Assistant Secretary of the Army, Room 2E577, Pentagon, Washington, DC 20310-0110
220. C. Marshall Cain, Office of Federal Activities (A-104), U.S. EPA, 401 M Street SW, Washington DC 20460
221. Sam Calhoun, TVA, P.O. Box 1010, NSE1D, Muscle Shoals, AL 35660-1010
222. E. C. Calman, Reynolds Electrical and Engineering Co., Inc., Environmental Compliance Office, P.O. Box 98521, M/S 711, Las Vegas, NV 89193-8521
223. John Campisi, Advanced Sciences Inc., 6739 Academy, NE, Albuquerque, NM 87109
224. Doug Canete, Argonne National Laboratory, 370 L'Enfant Promenade, SW, Suite 702, Washington, DC 20024
225. Rita G. Carnes, Benchmark Environmental Corp., 4501 Indian School Rd. NE, Suite 105, Albuquerque, NM 87110
226. Bob Carosino, Office of Chief Counsel, Richland Operations Office, MS-A452, P.O. Box 550, Richland, WA 99352
227. Jerry Carr, U.S. Department of Energy - WIPP, P.O. Box 3090, Carlsbad, NM 88221
228. Daniel J. Casagrande, The MITRE Corporation, AFCEE/EST, Bldg. T170, Brooks AFB, TX 78235-5000

- 229. John S. Cerrito, Knolls Atomic Power Laboratory, Kesselring Site Operation, 350 Atomic Project Road, Ballston Spa, NY 12020-2817
- 230. Charlie Channes, AWP-464-10, FAA Western Pacific Region, P.O. Box 92007, Worldway Postal Ctr., Los Angeles, CA 90009
- 231. Gloria E. Chavez, Sandia National Laboratories, Division 3222, P.O. Box 5800, Albuquerque, NM 87185
- 232. Sandra L. Chavez, U.S. DOE, DP-641, Germantown, MD 20874
- 233. Chief, Environmental Sciences Branch, U.S. Department of Energy, 785 DOE Place, Idaho Falls, ID 83402-4149
- 234. Nathan A. Chipman, Westinghouse Idaho Nuclear Co., MS-3205, P.O. Box 4000, Idaho Falls, ID 83403-4000
- 235. Gail K. Chivington, Martin Marietta Specialty Components, P.O. Box 2908, Largo, FL 34649-2908
- 236. William D. Christensen, Ph.D., 100 Jefferson's Hundred, Williamsburg, VA 23185
- 237. Dr. A. L. Clark, HQUSAF/LEEVR, Bolling Air Force Base, Washington, DC 20332-5000
- 238. Barbara Clark, Westinghouse - Savannah River, Building 703H, Aiken, SC 29802
- 239. Clifford E. Clark, Science Applications Corp., 1845 Terminal Drive, Suite 202, Richland, WA 99352
- 240. Jennifer Clay, U.S. DOE, EM-20, Room 435, 12800 Middlebrook Rd., Germantown, MD 20874
- 241. Pamela Clements, Environmental Support Office, Naval Surface Weapons Station, Indian Head, MD 20640
- 242. Jerry Coalgate, EH-231, GA-076, U.S. Department of Energy, 1000 Independence Ave., Washington, DC 20585
- 243. John Cochran, Sandia, Div-7723, Sandia National Labs, P.O. Box 5800, Albuquerque, NM 87185-5800
- 244. Brenda Cole, ANL-W, P.O. Box 2528, MS-6000, Bldg. 752, Idaho Falls, ID 83403-2528
- 245. Alice Colston, Office of Management and Budget, NEOB, Room 8002, 17th & Pennsylvania Ave., N.W., Washington, DC 20503
- 246. Ray Cooperstein, DP-273, B-204/GTN, U.S. Department of Energy, Washington, DC 20585
- 247. Dr. Darrel Cornell, Environmental Management, OC-ALC/EMR, Tinker AFB, OK 73135
- 248. Debbie Craghill, P.O. Box 127, c/o Naval Petroleum Reserves #1, Tupman, CA 93276
- 249. Karin Crandall, MUS Corporation, 205-F Cody Lane, Aiken, SC 29803
- 250. Alan Crockett, EG&G Idaho, P.O. Box 1625, Idaho Falls, ID 83415-2213
- 251. Martha Crosland, GC-11, 6A-113, U.S. Department of Energy, 1000 Independence Ave., Washington, DC 20585
- 252. June Crowe, IT Corporation, 312 Directors Drive, Knoxville, TN 37923
- 253. Debra Cully, Knolls Atomic Power Lab, P.O. Box 1072, Schenectady, NY 12301
- 254. Brian Culver, Chief of Environmental Management, General Dynamics - EB Division, Kesselring Site Field Office, P.O. Box 118, Rock City Falls, NY 12863
- 255. Maureen Cunningham, SAIC, P.O. Box 2501, Oak Ridge, TN 37831
- 256. Rich Cunningham, U.S. DOE, DP-9, GE-063, 1000 Independence Avenue, Washington, DC 20585
- 257. Ruth Curley, KAPL, G1-101, P.O. Box 1072, Schenectady, NY 12301
- 258. Myron Curtis, INEL, 1955 Freemont Avenue, P.O. Box 4000, Idaho Falls, ID 83403-4000
- 259. Richard Dailey, EH-231, GA-076, U.S. Department of Energy, 1000 Independence Ave., Washington, DC 20585

- 260. Nancy E. Darling, Westinghouse Hanford Company, 420 Golf Club Road, Suite 104, Lacey, WA 98503-1046
- 261. Abdul Q. Dasti, U.S. DOE, DP-222, GTN, Washington, DC 20545
- 262. Jerry Daub, Chem-Nuclear Geotek, P.O. Box 14000, Grand Junction, CO 81502
- 263. James T. Davis, U.S. DOE, San Francisco Ops. Office, 1333 Broadway, Oakland, CA 94612
- 264. Roscoe Davis, Defense Logistics Agency, DRMS-SHP, 74 North Washington St., Battle Creek, MI 49017
- 265. Hal Delaplane, FE-421, 3G-027, U.S. Department of Energy, 1000 Independence Ave., Washington, DC 20585
- 266. Cathy Demeroukas, U.S. Army, CERL/ENR, P.O. Box 9005, Champaign, IL 61826-9005
- 267. William Dennison, GC-11, DOE, Washington, DC 20545
- 268. James DePadro, Argonne National Laboratory, 9600 Cass Avenue, Argonne, IL 60439
- 269. Jack Depperschmidt, Mail Stop 1146, 785 DOE Place, Idaho Falls, ID 83402
- 270. Lata Desai, WIPP Technical Library, P.O. Box 2078, WIPP Site 30 Miles SE of Carlsbad, Carlsbad, NM 88221
- 271. Linda J. Desell, RW-32, 7F-045, U.S. Department of Energy, 1000 Independence Ave., Washington, DC 20585
- 272. Robin DeVore, Los Alamos National Laboratory, P.O. Box 1663, MS-J566, Los Alamos, NM 87545
- 273. Jerry DiCerbo, EH-231, GA-076, U.S. Department of Energy, 1000 Independence Ave., Washington DC 20585
- 274. Steve Diedrich, AGL-436, FAA Great Lakes Region, O'Hare Lake Office Ctr., 2300 E. Devon Avenue, Des Plaines, IL 60018
- 275. Jonathan Dion, DOE - RFP/WMED, P.O. Box 928, Golden, CO 80402
- 276. Director, U. S. Air Force Regional Compliance Office, 525 S. Griffin St., Box 116, Dallas, TX 75202-0516
- 277. Ron Dixon, Legal Counsel, U.S. DOE, Planning, NPRC, P.O. Box 11, Tupman, CA 93276
- 278. DOE-RL, P.O. Box 550, Richland, WA 99352
- 279. Dr. William W. Doerr, B & V Waste Science, 100 Cambridge Park Drive, Cambridge, MA 02140
- 280. David Dollins, U.S. DOE, Portsmouth Gaseous Diffusion Plant, P.O. Box 628, Piketon, OH 45661
- 281. Rick Donahoe, Bechtel Petroleum Operations, Inc., Naval Petroleum Reserves, P.O. Box 127, Tupman, CA 93276
- 282. Terence A. Douglas, Martin Marietta Specialty Components, Inc., P.O. Box 2908, Largo, FL 34649-2908
- 283. Cathy Dufault, Naval Weapons Station Pier X, NPTU, Charleston, SC 29408-7007
- 284. D. C. Durban, P.O. Box 1970, (N1-35), Westinghouse Hanford Company, Richland, WA 99352
- 285. Ken Duvall, EH-232, U.S. Department of Energy, 1000 Independence Avenue, Washington, DC 20585
- 286. Emily Dyson, Roy F. Weston Company, 12800 Middlebrook Road, Suite 207, Germantown, MD 20874
- 287. Laurie Easterling, Radian Corporation, 120 S. Jefferson Circle, Oak Ridge, TN 37830
- 288. Arnie Edelman, ER-8, GTN, U.S. Department of Energy, Washington, DC 20585
- 289. Robert Edwards, U.S. DOE, Paducah Gaseous Diffusion Plant, P.O. Box 1410, Paducah, KY 42001
- 290. Patricia A. Elker, US Army Material Command, ATTN: AMCSF-P, 5001 Eisenhower Avenue, Alexandria, VA 22333
- 291. Dr. Donald R. Elle, EPS/EST, USDOE/NV, P.O. Box 98518, Las Vegas, NV 89193-8518

- 292. Dennis Engler, SAIC, MS A3, 10260 Campus Point Drive, San Diego, CA 92121-1578
- 293. Environmental Compliance Division, OS/OASM/ECD/ H6319, U.S. Department of Commerce, Washington, DC 20230
- 294. Environmental Programs Library, Organization 7725, Sandia National Laboratories, P.O. Box 5800, Albuquerque, NM 87185-5800
- 295. Dr. Edward J. Evans, Jr., PMPMD, USAEHA, Aberdeen Proving Gds., MD 21010-5422
- 296. Tom Evans, DOE-HQ, EM-552, 12800 Middlebrook Road, Germantown, MD 20874
- 297. Executive Director, Armed Forces Test Management Board, Forest Glen Station, WRAMC, Washington, DC 20307-5001
- 298. Gerry Fallon, Massachusetts Institute of Technology, Bates Linac, P.O. Box 95, Middleton, MA 01949
- 299. William Fallon, Battelle, 370 L'Enfant Promenade, Suite 900, Washington, DC 20024
- 300. James K. Farley, U.S. DOE, ER-8.2, GTN, Washington, DC 20585
- 301. Bill Farmer, EG&G Mound Applied Technology, P.O. Box 3000, Miamisburg, OH 45343-3000
- 302. Tom Ferns, Westinghouse Hanford, P.O. Box 1970, MS H4-57, Richland, WA 99352
- 303. Marvin S. Fink, Safety and Health Manager, Room 6525, Main Building, U.S. Dept. of Justice, Washington, DC 20530
- 304. James J. Fiore, Director, Division of Facility and Site Decommissioning Projects (NE-23), U.S. Department of Energy, Washington, DC 20545
- 305. Barbara Firth, Chem-Nuclear Geotek, P.O. Box 1400, Grand Junction, CO 81502-5504
- 306. Ed Fisher, U.S. DOE, Morgantown Energy Tech. Ctr., P.O. Box 880, Morgantown, WV 26505
- 307. Joe Fitzgerald, EH-35, G-103, U.S. Department of Energy, 1000 Independence Avenue, Washington, DC 20585
- 308. N. J. Fix, EG & G Idaho, Inc., P.O. Box 1625, MS-3414, Idaho Falls, ID 83415
- 309. Roxanne Flowers, DOE New Brunswick Lab, Building 350, 9800 South Cass Avenue, Argonne, IL 60439-4870
- 310. Kenny Floyd, NIH, 9000 Rockville Pike, Bldg. 13, Rm. 2W64, Bethesda, MD 20892-00013
- 311. Brian Foley, DOE Field Office - Richland Operations, P.O. Box 550, MS-A5-52, Richland, WA 99352
- 312. John Ford, DP-133, A-312, DOE, Washington, DC 20545
- 313. Mr. L.A. Fort, Westinghouse Hanford Co., P.O. Box 1970, R2-87, MS-D2-20, Richland, WA 99352
- 314. William Fortune, EH-231, DOE-HQ, Forrestal Building, 1000 Independence Avenue, Washington, DC 20585
- 315. Michael R. Fosdick, Vice President & General Manager, John Brown E&C Inc., 800 Werner Court, P.O. Box 90159, Casper, WY 82609
- 316. Thomas G. Frangos, Jacobs Engineering Group, P.O. Box 20008, Lakeland, FL 33806-2008
- 317. Dr. Clyde Frank, U.S. DOE, EM-50, 1000 Independence Ave., SW., Washington, DC 20585
- 318. J.F. Franklin, Bloedel Professor of Ecosystem Analysis, College of Forest Resources, University of Washington, Anderson Hall (AR-10), Seattle, WA 98195
- 319. Carl Gaddis, Pittsburgh Naval Reactors Office, P.O. Box 109, West Mifflin, PA 15122-0109
- 320. Glen R. Galen, Bechtel National, Inc., P.O. Box 350, Oak Ridge, TN 37831-0350
- 321. Jim Gamin, Westinghouse-Hanford, P.O. Box 1970, Richland, WA 99352
- 322. George Garcia, Westinghouse-Savannah River, 37 Varden Drive, Aiken, SC 29803

323. Mike Garcia, U.S. Department of Energy, Albuquerque Ops., Health Protection Division, P.O. Box 5400, Albuquerque, NM 87115
324. David Gardner, Westinghouse Materials Co. of Ohio, P.O. Box 398704, Mail Stop 31, Cincinnati, OH 45239-8704
325. Glenn Gardner, RW-42, 5A-051, U.S. Department of Energy, 1000 Independence Avenue, Washington, DC 20585
326. Bill Garibay, Ogden Environmental, 800 Oak Ridge Turnpike, Jackson Plaza, Suite A103, Oak Ridge, TN 37830
327. Dick Geiger, Chem-Nuclear Environmental Services (A4-35), 825 Jadwin Avenue, P.O. Box 1786, Richland, WA 99352
328. Anne H. Geisler, Argonne National Laboratory, Oak Ridge Operations Support Office, P.O. Box 6974, Oak Ridge, TN 37831-6974
329. David R. Gengozian, Environmental Quality Staff, SPB 25 214P, TVA, 400 W. Summit Hill Drive, Knoxville, TN 37902-1499
330. Sam Gianti, CH2Mhill, P.O. Box 4400, Reston, VA 22090
331. Robert E. Giencke, General Electric/KAPL, P.O. Box 1072, MD G1-289, Schenectady, NY 12301
332. Bruce Gillen, M/SC1-105, EG&G Energy Measurements, P.O. Box 1912, Las Vegas, NV 89125
333. Martha Gitt, 265 Gladstone, Idaho Falls, ID 83402
334. Chad Glenn, U.S. Nuclear Reg. Commission, 1 White Flint North, 11555 Rockville Pike, MS-5E4, Rockville, MD 20852
335. Melanie S. Goga, Halliburton NUS Environmental Corporation, Technical Library, Foster Plaza VII, Pittsburgh, PA 15220
336. Neal Goldenberg, EH-32, G-138, U.S. Department of Energy, Washington, DC 20545
337. Tanya Goldman, DOE, San Francisco Operations Office/ER, 1333 Broadway, Oakland, CA 94612
338. Robert Gonzales, P.O. Box 1663, Los Alamos National Laboratory, MS-K481, HSE-13, Los Alamos, NM 87545.
339. Marjorie Gonzalez, L-39, Lawrence Livermore Natl Lab, P.O. Box 808, Livermore, CA 94550
340. Larry Goodell, Defense Analysis and Studies Office (DASO), Skyline III, Suite 1500, 5201 Leesburg Pike, Falls Church, VA 22041-3203 (disk copy only)
341. A. Elizabeth Gordon, Advanced Sciences, Inc., 6739 Academy Road NE, Albuquerque, NM 87109-3345
342. Paul T. Grahovac, Westinghouse Idaho Nuclear Co., Inc., MS-3301, P.O. Box 4000, Idaho Falls, ID 83403
343. Michael J. Green, NASA, 400 Maryland Ave. NW, Washington, DC 20546
344. Steve Green, Manager, GOCO ES&H Programs, Westinghouse Electric Corporation, Gateway #6 - 2185, 11 Stanwix Street, Pittsburg, PA 15222
345. R. B. Greenstone (ZAP 64C), Westinghouse-Bettis Laboratory, P.O. Box 79, West Mifflin, PA 15122
346. Gayla Gross, SAIC 25000 Great Northern Corporation Center, Suite 320, North Olmsted, OH 44070
347. Charles Grua, U.S. DOE, NE-84, 1000 Independence Avenue, Washington, 20585
348. Jocelyn Guarisco, DOE SPRO-PMO, 900 Commerce Road East, New Orleans, LA 70123
349. Rich Guida, NE-60, NR, 4N06, U.S. Department of Energy, Naval Reactors, Washington, DC 20585
350. Linda Guinn, EG&G Idaho, P.O. Box 1625-3601, Idaho Falls, ID 83415
351. Cynthia B. Hall, Esq., Legal Organization 4000, Sandia National Laboratories, P.O. Box 5800, Albuquerque, NM 87185

- 352. Phoebe Hamill, DOE-Headquarters, FE-222, 1000 Independence Avenue, Washington, DC 20585
- 353. L. D. Hamilton, M.D. Phd., Head, Biomedical & Environmental Assessment Division, Brookhaven National Laboratory, Upton, Long Island, NY 11973
- 354. Mark D. Hamilton, Senior Environmental Compliance Officer, Reynolds Electrical & Engineering Company (REECO), 4623 Goldfield Avenue, Long Beach, CA 90807-1831
- 355. Kent Hancock, U.S. DOE, EM-352, 656 Quince Orchard Road, Suite 270, Room 251, Gaithersburg, MD 44539
- 356. James Hand, Corp of Eng., HQDA-DAEN-CECW-PP, Pulaski Bldg, 20 Massachusetts Ave., N.W., Rm. 7113, Washington, DC 20314
- 357. Glen T. Hanson, 1628 Blair Court NE, Albuquerque, NM 87112
- 358. James D. Harless, TDEC/DOE Oversight, 761 Emory Valley Road, Oak Ridge, TN 37830-7072
- 359. Timothy Harms, NP-52, U.S. Department of Energy, 1000 Independence Ave., Washington, DC 20585
- 360. Ernest Harr, Halliburton NUS Environmental Corporation, 910 Clopper Road, Gaithersburg, MD 20878
- 361. Dr. Robert C. Harriss, Institute for the Study of Earth, Oceans, and Space, Science and Engineering Research Building, University of New Hampshire, Durham, NH 03842
- 362. Jim Hartman, Environmental Manager, U.S. DOE, Western Area Power Administration, P.O. Box 3700, Loveland, CO 80539-3003
- 363. Andrew C. Harvey, SAIC 10260 Campus Point Drive, MS-A3, San Diego, CA 92121
- 364. Len Hayden, PEER Consultants, P.C., 575 Oak Ridge Turnpike, Oak Ridge, TN 37830
- 365. Don L. Hayes, Southwestern Power Arm, P.O. Box 1619, Tulsa, OK 74101
- 366. Kimberley A. Hayes, EM-424, Trevion II, U.S. DOE, Washington, DC 20585-0002
- 367. Kathleen C. Hazen, SAIC, 615 Oberlin Road, Suite 300, Raleigh, NC 27606
- 368. T. G. Hedahl, Manager, Environmental Programs, EG&G Idaho, Inc., P.O. Box 1625, Idaho Falls, ID 83415
- 369. Paul L. Hendrickson, K6-63, Battelle - PNL, P.O. Box 999, Richland, WA 99352
- 370. Floyd R. Hertweck, Jr., Westinghouse Environmental Management Company of Ohio, Mail Stop 38, P.O. Box 398704, Cincinnati, OH 45239
- 371. Lee. C. Herwig, Jr., USEPA, 981 Millwood Lane, Great Falls, VA 22066
- 372. Jim Heyser, ICF-Kaiser Engineers, 1900 Diamond Drive, Los Alamos, NM 87544
- 373. Nancy M. Hickok, 350 Atomic Project Road, Building 18, Room 101, West Milton, NY 12020
- 374. Greg High, Army Environmental Policy Institute, 1501-B Interstate Drive, P.O. Box 6569, Champaign, IL 61826-6569
- 375. R. Douglas Hildebrand, U.S. Department of Energy, MS AS-SS, Box 550, Richland, WA 99352
- 376. Charles I. Hochman, Office of Safety and Health, Department of Labor, 200 Const. Ave., N.W., Rm S2220B, Washington, DC 20210
- 377. David Hoel, NP-53, U.S. Department of Energy, 1000 Independence Ave., Washington, DC 20585
- 378. Joseph Hoenscheid, ODASD(E) 400 Army-Navy Drive, Suite #206, Arlington, VA 22202-2885
- 379. Jean Hoff, ICF, Inc., 9300 Lee Highway, Fairfax, VA 22031
- 380. Betty L. Hollowell, U.S. DOE, Amarillo Area Office, Pantex Plant, P.O. Box 30030, Amarillo, TX 79121
- 381. Claire Holtzapple, DOE SF/LOO, LLNL, Mail Stop L-57, P.O. Box 808, Livermore, CA 94551-9900
- 382. Dr. Kou-John Hong, Argonne National Laboratory, 9700 S. Cass Avenue, Argonne, IL 60439

383. Pat Hoopes, U.S. Department of Energy, Kansas City Area Office, P.O. Box 410202, Kansas City, MO 64141-0202
384. David R. Hopkins, EPA - Federal Activities, 345 Courtland, Atlanta, GA 30365
385. G.M. Hornberger, Professor, Department of Environmental Sciences, University of Virginia, Charlottesville, VA 22903
386. Maryann Hospelhorn, Sandia National Laboratories, Organization 6623, P.O. Box 5800, Albuquerque, NM 87185
387. HQ AFESC/RDV, Stop 21, Tyndall Air Force Base, FL 32403
388. J. W. Huckabee, Manager, Ecological Studies Program, Electric Power Research Institute, 3412 Hillview Avenue, P.O. Box 10412, Palo Alto, CA 94303
389. Joseph Hugo, Chief, Pollution Control Section, NIH, Bldg. 13, Room 2W64, Bethesda, MD 20892 (disk copy only)
390. Jerry Humman, EH-32, U.S. DOE, GTN, Washington, DC 20545
391. David P. Hutchison, EG&G Idaho, P.O. Box 1625, MS-2411, Idaho Falls, ID 83415
392. Leonard Hutterman, WINCO, Box 4000-3906, Idaho Falls, ID 83403
393. T. B. Hyde, U.S. Dept of Energy, Albuquerque Operations Office, Management Support Div., Albuquerque, NM 87115
394. David S. Ingle, Safety and Occupational Health Manager, U.S. Department of Energy, Pinellas Area Office, P.O. Box 2900, Largo, FL 34294
395. Inhalation Toxicology Research Institute, Health Protection, P.O. Box 5890, Albuquerque, NM 87115
396. Steven A. Ison, Batelle Pacific NW Laboratories, P.O. Box 999, Mail Stop K6-54, Richland, WA 99352
397. E. Jonathan Jackson, Halliburton NUS Environmental Corporation, 900 Trail Ridge Road, Aiken, SC 29803
398. John Jaacks, Woodward-Clyde Federal Services, 2962 Cyrandall Valley Road, Oakton, VA 22124
399. Jim Jackson, EG&G Idaho, P.O. Box 1625, Mail Stop 3414, Idaho Falls, ID 83415-3414
400. Robert R. Jackson, Science Applications, 1845 Terminal Drive, Richland, WA 99337
401. Vernon Z. Jakybowski, 18-101, Knolls Atomic Power Laboratory, 350 Atomic Project Road, Ballston Spa, NY 12020-2817
402. Mr. Charles F. James, M-471, Dept. of Transportation, 400 7th St, S.W., Rm. 2308, Washington, DC 20590
403. Richard Janowiecki, EG&G Mound Applied Technologies, P.O. Box 3000, Miamisburg, OH 45343-0987
404. C. Jierree, U.S. Department of Energy, Rocky Flats Area Office, P.O. Box 928, Golden, CO 80401
405. Teresa G. Jordan (Attn: BLD. 742-A), Westinghouse - Savannah River Company, P.O. Box 616, Aiken, SC 29802
406. Reed Kaldor, Advanced Sciences, Inc., 1777 Terminal Drive, Richland, WA 99352
407. Mark Kamiya, Argonne National Laboratory, ES&H Division, 9700 S. Cass Avenue, Argonne, IL 60439
408. Col. Don Kane, Env Division (AF/LEEV), Bolling AFB, Washington, DC 20332-5000
409. Robert Kane, FE-4, Rm. 46-067, U.S. Department of Energy, 1000 Independence Avenue, Washington, DC 20585
410. Jonathan Kang, DOE/EM-351 (Trevion II), Washington, DC 20585-0002
411. George Kaplan, NE-70, Rm. A-423, U.S. DOE, GTN, Washington, DC 20585

- 412. Allison V. Keebler, ERCE, 800 Oak Ridge Turnpike, Suite 103, Oak Ridge, TN 37830
- 413. E. Kehoe, SSgt, USAF NCCIC, Environmental Law Division, Office of the Judge Advocate General, AF/JACE, Bolling AFB, DC 20332-6128
- 414. R. R. Kemps, Director, Office of Project and Facilities Management, 1000 Independence Ave., 5C-032/Forrestal Bldg, Washington, DC 20585
- 415. J.C. Kent, Westinghouse Idaho Nuclear Co., Inc., P.O. Box 4000, Mail Stop 5209, Idaho Falls, ID 83403
- 416. Sandra Kent, EG&G Idaho, Inc., P.O. Box 1625, Idaho Falls, ID 83415-1560
- 417. Philip H. Kier, Energy and Environmental Systems Division, Bldg. 362, Argonne National Laboratory, 9700 S. Cass Ave., Argonne, IL 60439
- 418. James C. Killen, U.S. DOE, Planning, NPRC, P.O. Box 11, Tupman, CA 93276
- 419. Howard Kimpton, ACM-440, FAA Technical Center, Atlantic City Airport, NJ 08405
- 420. Anthony King, Roane State Waste Management Training Center, 728 Emory Valley Road, Oak Ridge, TN 37830
- 421. Kay King, Theta Technologies, 101 E. Tennessee Ave., Oak Ridge, TN 37830
- 422. Tim Kirkpatrick, EG&G Idaho, MS-2411, P.O. Box 1625, Idaho Falls, ID 83415
- 423. Alan D. Kirsch, EG&G Idaho, P.O. Box 1625-3601, Idaho Falls, ID 83415
- 424. Mike Kleinrock, EM-20, 8H-050, U.S. DOE, Forrestal Building, 1000 Independence Avenue, Washington, DC 20585
- 425. Larry Klingler, EG&G Mound Applied Technology, Inc., P.O. Box 3000, Miamisburg, OH 45343
- 426. Margret A. Knech, EG&G Idaho, P.O. Box 1625, Idaho Falls, ID 83415-2212
- 427. J. P. Knight, Director, Office of Nuclear Safety, EH-33, G-107, U.S. Department of Energy, Washington, DC 20545
- 428. Ronald Knisley, MA-202.3, 4F-066, U.S. Department of Energy, 1000 Independence Ave., Washington, DC 20585
- 429. Terri Knudsen, Rockwell International, Rocky Flats Plant, P.O. Box 464, T-130B, Golden, CO 80402-0464
- 430. Duane A. Knudson, SEC Donohue, 3500-B Regency Parkway, P.O. Box 1308, Cary, NC 27511
- 431. Edward J. Kochem, General Electric, Bldg. F3-7, P.O. Box 1072, Schenectady, NY 12301
- 432. James Koonce, Lawrence Berkeley Laboratory, MS 50A-5104, Oakland, CA 94720
- 433. Mic Korte, ORNL, 2597 B 3/4 Road, Grand Junction, CO 81503
- 434. Ted Koss, U.S. DOE, EH-232, 1000 Independence Avenue, Washington, DC 20585
- 435. George E. Krauter, Stone & Webster, 1093 Commerce Park, Suite 200, Oak Ridge, TN 37830
- 436. Mike Krupinsky, Management Analysis Co., 12671 High Bluff Drive, San Diego, CA 92130
- 437. Deborah Kufen, Chem Nuclear Geotech, P.O. Box 1625, Idaho Falls, ID 83415-2309
- 438. Brian Kurtyka, 12850 Middlebrook Road, Suite 300, Germantown, MD 20874
- 439. Major Marcia Kurtz, 1606 ABW/JA, Kirtland AFB, NM 87117-5000
- 440. Tapio Kuusinen, (K6-55), Pacific Northwest Laboratory, P.O. Box 999, Richland, WA 99352
- 441. Susan Kuznick, GC-31, 6B-256, U.S. Department of Energy, 1000 Independence Avenue, Washington, DC 20585
- 442. Robert T. Lackey, Deputy Director, EPA Environmental Research Lab., 200 SW 35th Street, Corvallis, OR 97333
- 443. A. G. Ladino, U.S. Department of Energy, Amarillo Area Office, P.O. Box 30030, Amarillo, TX 79120

- 444. Mr. Phil Lammi, Director, Environmental Planning Division, Air Force Regional Civil Engineer-Western Region, AFRCE-WR/ROV, 630 Sansome St., Room 1316, San Francisco, CA 94111-2278
- 445. D. M. Lange, Westinghouse Naval Reactors Facility, P.O. Box 2068, Idaho Falls, ID 83401
- 446. P. S. Lanham, Manager of Environmental Special Projects, Chem-Nuclear Geotek, P.O. Box 1400, Grand Junction, CO 81502-5504
- 447. Fred N. Larsen, Allied-Signal Inc., P.O. Box 1159, Department 837-XD43, Kansas City, MO 64141
- 448. Jay Larson, CIH, U.S. DOE (ER-8.1), 19901 Germantown, MD 20874
- 449. Bill Lattin, U.S. DOE, Idaho Operations Office, 785 DOE Place, Idaho Falls, ID 83402
- 450. J. Thomas Lawell, Colonel, USAF, Director, Environmental Management, SM-ALC/EM, McClellan AFB, CA 95652-5990
- 451. Andy Lawrence, EH-231, GA-076, U.S. DOE, 1000 Independence Ave., Washington, DC 20585
- 452. Kurt Lawton, Martin Marietta Energy Systems, Box 628, M.S. 3209, Piketon, OH 45661
- 453. Eugene Lehr, P-14, Department of Transportation, 400 7th St, S.W., Rm. 9217, Washington, DC 20590
- 454. John Lehr, DP-124, A-220, U.S. Department of Energy, Washington, DC 20545
- 455. Kathleen Leonard, Westinghouse Hanford, P.O. Box 1970, B2-19, Richland, WA 99352
- 456. Mary Lou Leonard, 3021 San Patricia NW, Albuquerque, NM 87107
- 457. Ann M. Lesperance, MSIN K6-58, P.O. Box 999, Richland, WA 99352
- 458. Nick Lestenkof, ANM-463.H, Federal Aviation Administration, 1601 Lind Avenue SW, Renton, WA 98055-4056
- 459. Martin J. Letourneau, U.S. Department of Energy, EM-22, Trevion II, Washington, DC 20585-0002
- 460. Joanna Lewis, Sandia Laboratories, Organization 7001, P.O. Box 5800, Albuquerque, NM 87185
- 461. Johnnye Lewis, Benchmark Environmental Corporation, 117 B Longview, White Rock, NM 87544
- 462. Karen S. Lewis, Babcock & Wilcox Idaho, P.O. Box 1469, M.S. 0111, Idaho Falls, ID 83403
- 463. Todd F. Lewis, 52 N. 3167 E., Idaho Falls, ID 83402
- 464. Donna M. Leydorf, SAIC, Division 380, P.O. Box 2501, Oak Ridge, TN 37831
- 465. Library, Bechtel National Inc., Box 350, Oak Ridge, TN 37831
- 466. Library, U.S. Environmental Protection Agency Region IV, 345 Courtland Street, Atlanta, GA 30365-2401
- 467. Library, Weston, Inc., 955 L'Enfant Plaza, SW, Suite 800, Washington, DC 20024
- 468. Edward Liebsch, HDR Engineering, Inc., 5401 Gamble Drive, Suite 300, Minneapolis, MN 55416-1518
- 469. Jim Littlejohn, Nevada Operations Office, U.S. DOE, P.O. Box 98518, Las Vegas, NV 89193-8518
- 470. Chuck Ljungberg, U.S. DOE, West Valley Project Office, P.O. Box 191, West Valley, NY 14171
- 471. Jim B. Lloyd, Southeastern Power Adm, Samuel Elbert Building, Elberton, GA 30635
- 472. Mary Alice Locke, Federal Aviation Administration, (AEE-20), 800 Independence Avenue SW., Washington, DC 20591
- 473. Jim Long, AAC-51, FAA Aeronautical Center, 6500 S. MacArthur, P.O. Box 25082, Oklahoma City, OK 73125
- 474. Jeffrey J. Longaker, SAIC, P.O. Box 2501, 800 Oak Ridge Turnpike, Oak Ridge, TN 37831

475. Susan W. Longley, Sandia National Laboratories, P.O. Box 5800, Division 3222, Albuquerque, NM 87185
476. Jackie Loop, EG&G Idaho, P.O. Box 1625, Idaho Falls, ID 83415-2300
477. EM-8, Los Alamos National Laboratory, P.O. Box 1663, MS-K490, Los Alamos, NM 87544
478. Margaret Lou, U.S. DOE, Bartlesville Project Office, P.O. Box 1398, Bartlesville, OK 74003
479. James O. Low, U.S. DOE, Albuquerque Operations Office/SPD, P.O. Box 5400, Albuquerque, NM 87115
480. Richard P. Lubert, General Electric, Knoll Atomic Power Laboratory, P.O. Box 1072, Schenectady, NY 12301
481. Karen Lyncoln, P.O. Box 911, Los Alamos, NM 87544
482. John J. Lyons, U.S. Department of Energy, Dayton Area Office, P.O. Box 66, Miamisburg, OH 45342
483. Steven Maheras, EG&G Idaho, P.O. Box 1625, Idaho Falls, ID 83415
484. Dale R. Mahnke, MMES, P.O. Box 29304, Dept. 3162, New Orleans, LA 70189
485. Margaret Makram, U.S. DOE, Los Alamos Area Office, 528 35th St., Los Alamos, NM 87544
486. J. Malanchak, Office of Environmental Process and Effects Research, U.S. Environmental Protection Agency, 401 M Street, SW, RD-680, Washington, DC 20460
- 487-488. James Mangeno, (NE-60), U.S. Department of Energy, P.O. Box 23865, Washington, DC 20585
489. Diane Mann, EN, U.S. Army Const. Res Lab., P.O. Box 4005, Champaign, IL 61820
490. Lois Marik, ESS Division, DOE San Francisco Field Office, 1333 Broadway, Oakland, CA 94612
491. Marty L. Martin, P.O. Box 1970, MSIN X0-35, Richland, WA 99352
492. Stan Massey, ACE-462, FAA Central Region, 601 East 12th Street, Federal Bldg., Kansas City, MO 64106
493. Ken Mathias, A0420, Western Area Power Adm, P.O. Box 3402, Golden, CO 80401
494. John Mathur, DP-123, A-227, U.S. Department of Energy, Washington, DC 20545
495. M. L. Matthews, U.S. Dept of Energy, Uranium Mill Tailings Project Office, P.O. Box 5400, Albuquerque, NM 87115
496. A. J. Matule, Westinghouse Idaho Nuclear Co., Inc., P.O. Box 4000, Mail Stop 5209, Idaho Falls, ID 83403
497. Jay Maudlin, Paducah Gaseous Diffusion Plant, Environmental Compliance Department, Building C-744, P.O. Box 1410, Paducah, KY 42001
498. Carl A. Mazzola, Stone & Webster, South Operations, Woodside Executive Office Park, Suite F-25, 1359 Silver Bluff Road, Aiken, SC 29803
499. Jane L. McBride, SAIC, 301 Laboratory Road, Oak Ridge, TN 37831
500. David R. McCallister, Lawrence-Allison Division, John Brown E&C Inc., NPR #3 Field Office, P.O. Box 90159, Casper, WY 82609
501. Virginia McCauley, Manager, Operations Program, General Electric Devices Dept., Mail Station-009, P.O. Box 2908, Largo, FL 34649
502. Doug McCoy, TDEC, Director of DOE Oversight, 761 Emory Valley Road, Oak Ridge, TN 37830
503. Beth McDonald, MMES, 210 Church St., Christiansburg, VA 24073
504. Beth McDougald, Lee Wan & Associates, Information Resource Center, 105 Broadway, Oak Ridge, TN 37830
505. Jim McGovern, AEA-462, FAA Eastern Region, JFK International Airport, Fitzgerald Federal Bldg., Jamaica, NY 11430

- 506. David C. McGraw, Lawrence Berkeley Laboratory, Mail Stop 90-1106, 1 Cyclotron Road, Berkeley, CA 94720
- 507. K. P. McKay, Bettis Laboratory, AP08E, P.O. Box 79 West Mifflin, PA 15122-0079
- 508. Jesse McKendree, Cooper Energy Systems, 105 N. Sandusky St., Mt. Vernon, OH 43050-2495
- 509. Sylvia M. Medina, EG&G Idaho, Inc., P.O. Box 1625, Idaho Falls, ID 83415
- 510. A. Kathleen Merino, The MITRE Corporation, c/o AFCEE/EST, Bldg. T-170, Brooks AFB, TX 78235-5000
- 511. J. A. Mewhinney, U.S. Dept of Energy, Waste Isolation Pilot Plant Project Office, P.O. Box 3090, Carlsbad, NM 88221.
- 512. Dann Meyer, IT Corporation, 5301 Central Avenue NE, Suite 700, Albuquerque, NM 87108
- 513. R. Daniel Meyer, WEMCO/(Executive Research Associates), 127 Bonnie Leslie Avenue, Bellevue, KY 41073
- 514. Raymond W. Michels, Tucker and Associates, Inc., 800 Commerce Rd., West - Suite 500, New Orleans, LA 70123
- 515. Mark Mikatauge, Chief, OHB/SD/OMS, Central Intelligence Agency, Washington, DC 20505
- 516. Caryle B. Miller, NP-52, U.S. DOE, 1000 Independence Avenue, SW, Washington, DC 20585
- 517. J. F. Miller, Director, Environmental Planning Division, Office of the Assistant Secretary for Community Planning and Development, U.S. Department of Housing and Urban Development, Washington, DC 20410-7000
- 518. Mark S. Miller, National Institutes of Health, 9400 Rockville Pike, Bethesda, MD 20892
- 519. Steve Miller, GC-11, U.S. DOE, 1000 Independence Avenue SW, Washington, DC 20585
- 520. Stephen V. Mitz, SAIC, P.O. Box 2501, Oak Ridge, TN 37831
- 521. Jaffer Mohiuddin, U.S. DOE, EM-552, Trevion II, Washington, DC 20585
- 522. Frederick Moleski, MTC-Fernald Project, 1698 Wilderness Ridge Drive, Milford, OH 45150-1527
- 523. Kenneth S. Moor, Idaho National Engineering Lab, P.O. Box 1625, Idaho Falls, ID 83415-2213
- 524. Herman Moore, U.S. DOE, West Valley Project Office, 10300 Rock Spring Road, West Valley, NY 14171
- 525. Scott Moore, 800 Oak Ridge Turnpike, Jackson Tower, Suite C-102, Oak Ridge, TN 37830
- 526. James Morgan, The MITRE Corporation, AFCEE/ESR, Bldg. T170, Brooks AFB, TX 78235
- 527. Kristine Morris, DP-10, 4A-043, U.S. Department of Energy, 1000 Independence Ave., Washington, DC 20585
- 528. Robert Muhly, U.S. Army Toxic and Hazardous Materials Agency, Environmental and Health Office, Bldg 4406EA, Aberdeen Proving Ground, MD 21010
- 529. Harriet Mulvany, Trailer T-130C, EG&G Rocky Flats, P.O. Box 464, Golden, CO 80402-0464
- 530. Herbert Myers, CE-62, 6B-070, U.S. Department of Energy, 1000 Independence Avenue, Washington, DC 20585
- 531. Katherine Nakata, U.S. DOE, EH-231, Forrestal Building, 1000 Independence Avenue, Washington, DC 20585
- 532. Mark Neblett, Naval Sea Systems Command (08U), Department of Navy, Washington, DC 20362-5101
- 533. Jill Newby, SAIC, 2765 South Highland Drive, Suite 101, Las Vegas, NV 89109.
- 534. Bob Newell, Kaiser Engineers - Handford, P.O. Box 888, Richland, WA 99352
- 535. Jeff Newman, Westinghouse Savannah River Company, Hitchcock 37, 37 Varden Drive, Aiden, SC 29802
- 536. Mitch Newman, U.S. DOE, P.O. Box 398705, Cincinnati, OH 45239

537. Kathleen Nickel, Fernald Environmental Management Project, P.O. Box 398704, Cincinnati, OH 45239-8704
538. F. Niederkofler, Jr., Dir, Inventory and Supply Fund Management Service (928), Veterans Administration, 810 Vermont Avenue, N.W., Washington, DC 20240
539. P. A. Nikbakht, Environmental Protection Agency, 1505 Michaux Rd., Chapel Hill, NC 27514
540. Yusuf G. Noorani, Advanced Sciences, Inc., P.O. Box 51751, Idaho Falls, ID 83404
541. NUS Corporation Library, 900 Trail Ridge Road, Aiken, SC 29801
542. John A. Nuzback, GE/KAPL, Bldg. Z-5, P.O. Box 1072, Schenectady, NY 12301
543. Van Nguyen, DOE, DP-12, Germantown, Washington, DC 20545
544. Susan Offerdal, U.S. EPA, OFA, A-104, Rm. 2119V, 401 M Street, SW, Washington, DC 20460
545. Dr. Ronald H. Olsen, Professor, Microbiology and Immunology Department, University of Michigan, Med. Sciences II, #5605, 1301 East Catherine Street, Ann Arbor, MI 48109-0620
546. Karen Olsson, SAIC, 101 Convention Center Drive, Suite 407, MS-T-11, Las Vegas, NV 89109
547. Richard F. Orthen, NUS Corporation-Savannah River Center, 900 Trail Ridge Road, Aiken, SC 29803
548. Cynthia Ortiz, U.S. Department of Energy, NV Technical Library, P.O. Box 98518, M.S. 505, Las Vegas, NV 89193-8518
549. Beth Osheime, U.S. Department of Energy, P.O. Box 398705, Cincinnati, OH 45239-8705
550. Dr. W.S. Osburn, Jr., Environmental Protection Specialist, Div. P & T, U.S. DOE, Washington, DC 20545
551. Colleen Ostrowski, EH-23, U.S. Department of Energy, 1000 Independence Avenue, Washington, DC 20585
552. Kirk W. Owens, EM-331, DOE Headquarters, Washington, DC 20545
553. Mr. Thomas Palmieri, Office of Mngt and Budget, New Exec. Office Bldg., 8002, 726 Jackson Place, N.W., Washington, DC 20503
554. Dr. Robert W. Paret, 123 W. Tennessee Avenue, Suite 408, Oak Ridge, TN 37830
555. Jerry Parker, RW-333, Rm 7F-070, DOE, Washington, DC 20546
556. Michael Parker, GE Neutron Devices Department, P.O. Box 2908, M/S 040, Largo, FL 34643
557. Joe Parrette, WINCO, P.O. Box 4000, Idaho Falls, ID 83403-4000
558. Ron Pauer, Lawrence Berkeley National Laboratory, No.1 Cyclotron Road, Mail Stop 875B, Berkeley, CA 94720
559. Marcus Peacock, 1015 15th St., NW, Suite 500, Washington, DC 20005
560. Ray Pelletier, EH-23, GA-076, U.S. Department of Energy, 1000 Independence Ave., Washington, DC 20585
561. Donna Perla, EPA, OS-320W, 401 M Street SW, Washington, DC 20460
562. Patrick Pesacreta, EPA OS-323, 401 M Street, S.W, Washington, DC 20465
563. Carole W. Peter, Dames & Moore, 6310 Lamar, Suite 135, Overland Park, KS 66202
564. Reta E. Petersen, Benchmark Environmental Corporation, 117 B Longview, White Rock, NM 87544
565. Frances Peterson, Bonneville Power Administration, Office of Environment, AJ, P.O. box 3621, Portland, OR 97201
566. Hal Peterson, U.S. Department of Energy, EH-232, 1000 Independence Avenue, Washington, DC 20585
567. Mark Petts, EH-231, GA-076, U.S. Department of Energy, 1000 Independence Ave., Washington, DC 20585

568. J. A. Phoenix, U.S. Department of Energy, Los Alamos Area Office, 528 35th Street, Los Alamos, NM 87544
569. L. J. Piccin, General Electric Co., P.O. Box 1072, Kesselring Site Bldg. 18, Room 213, Schenectady, NY 12301
570. Kathy Pierce, BPA, RPPD, P.O. Box 3621, Portland, OR 97208
571. Jo Anne Pigg, Sandia National Laboratory, Div. 3311, P.O. Box 5800, Albuquerque, NM 87185
572. John Podgursky, Westinghouse-NRF, P.O. Box 2068, Idaho Falls, ID 83401
573. Craig L. Porter, WINCO, P.O. Box 4000, MS-5119, Idaho Falls, ID 83403
574. Sherman Powell, Westinghouse Savannah River Company, SR Site, Building 707F, Aiken, SC 29808
575. Jane Powers, EH-231, GA-076, DOE-HQ, Forrestal Building, 1000 Independence Avenue, Washington, DC 20585
576. Keith R. Price, Battelle Northwest, MS-K613, P.O. Box 999, Richland, WA 99352
577. Public Health Service - Environmental Officer, Parklawn 17A-10, 5600 Fishers Lane, Rockville, MD 20857
578. Debbie S. Pyron, MNUS, 900 Trail Ridge Road, Aiken, SC 29803
579. Tom Pysto, SAIC, Mail Stop 517/T11, 101 Convention Center Drive, Suite 407, Las Vegas, NV 89109
580. Tom Quayle, Westinghouse Hanford Company, P.O. Box 1971, MSINF B-19, Richland, WA 99352
581. Richard Raione, ECOTEK, P.O. Box 369, Erwin, TN 37650
582. Dr. David A. Rakel, EG&G Mound Applied Technologies, Mail Stop M-16, Miamisburg, OH 45343
583. Jim Ramsey, FUSRAP/Bechtel National Inc., 151 Lafayette Drive, P.O. Box 350, Oak Ridge, TN 37830
584. James E. Randall, DOE/AL/OCC, P.O. Box 5400, Albuquerque, NM 871115
585. Richard Rapoport, Pacific Northwest Laboratory, 370 L'Enfant Promenade, Suite 900, Washington, DC 20024-2115
586. Edward H. Rau, NIH-PHS, Waste Management, Building 13, Room 2E63, 9000 Rockville Pike, Bethesda, MD 20892
587. Julie A. Reddick, J. A. Reddick Technical Services, Rte 1, Box 5670, W. Richland, WA 99352
588. Randy F. Reddick, CDM Federal Programs Corporation, 6400 Uptown Blvd. NE, Albuquerque, NM 87110
589. Dr. Thomas E. Reed, Bettis Atomic Power Laboratory, P.O. Box 79, West Mifflin, PA 15122-0079
590. Chelly Reesman, Argonne Area Office - West, P.O. Box 2528, Idaho Falls, ID 83403-2528
591. Ed Regnier, EH-231, GA-076, U.S. Department of Energy, 1000 Independence Avenue, Washington, DC 20585
592. Jay Rhoderick, EM-342, U.S. DOE, Trevion II, 12800 Middlebrook Rd., Germantown, MD 20874
593. William G. Rhodes III, Arthur D. Little, Inc., Acorn Park, Cambridge, MA 02140-2390
594. Juan J. Rios, Halliburton NUS, 401-P Greengate Circle, Aiken, SC 29803
595. Thomas Risse, DLA-W, Installation Services & Environmental Protection, Cameron Station, Alexandria, VA 22314-6100
596. Peter Ritzcovan, NP-52, U.S. DOE HQ, 1000 Independence Ave. SW, Washington, DC 20585-2021
597. David Rizor, EG&G Idaho, P.O. Box 1625, MS-8102, Idaho Falls, ID 83415-8102
598. Gary Robinson, Westinghouse Hanford Company, P.O. Box 1970, B2-19, Richland, WA 99352

599. Gary Roles, EH-232, U.S. Department of Energy, 1000 Independence Avenue, Washington, DC 20585
600. D. M. Ross, EH-34, G-154, U.S. Department of Energy, Washington, DC 20545
601. Wayne Ross, Battelle-Northwest, P.O. Box 999, MS. P7-4, Richland, WA 99352
602. Tom Rowland, West Valley Project Office, P.O. Box 191, West Valley, NY 14171-0191
603. Mell J. Roy, U.S. DOE, Rocky Flats Office, P.O. Box 928, Golden, CO 80402-0928
604. Art Roybal, DOE Western Area Power Administration, 1627 Cole Boulevard, A0420, Golden, CO 80401
605. William Roy-Harrison, U.S. DOE, DP-12, GTN, Washington, DC 20545
606. Julie Russlan, Advanced Sciences, Inc., 2000 N. 15th St., Suite 407, Arlington, VA 22201
607. D. J. Ryan, KAPL, P.O. Box 1072, Mail Stop G1-289, Schenectady, NY 12301
608. Marie Saint Louis, EM-55, 12800 Middlebrook Rd., Germantown, MD 20874
609. R. D. Sanders, Sr., Manager of Environmental Compliance and Regulatory Affairs, Chem-Nuclear Geotek, P.O. Box 1400, Grand Junction, CO 81502-5504
610. Sandia National Laboratories, Environmental Programs, P.O. Box 5800, Albuquerque, NM 87185
611. William Savage, NE-13, E-461, U.S. Department of Energy, Washington, DC 20545
612. Dash Sayala, SAIC, MS R-1-3, 11251 Roger Bacon Drive, Reston, VA 22090
613. Randy Sayer, EG&G Idaho, P.O. Box 1645, MS 9206, Idaho Falls, ID 83415
614. Lt. Col. Bernie Schafer, HQ ESAC/JACE, Bolling AFB, DC 20332
615. John Scheer, Defense Logistics Agency, DLA-WH, Cameron Station, Alexandria, VA 22304-6100
616. C. F. Schimikowski, General Electric Co., P.O. Box 1072, Bldg. A1, Rm. 227, Schenectady, NY 12301
617. John J. Schinkle, Director, Safety Programs Division, U. S. Department of Energy, Albuquerque Operations Office, P. O. Box 5400, Albuquerque, NM 87115
618. Robert L. Schlegel, NUS Corporation, 910 Clopper Road, P.O. Box 6032, Gaithersburg, MD 20877-0962
619. Kathleen Schmidt, U.S. DOE, EH-231, 1000 Independence Avenue, Washington, DC 20585
620. Owen C. Schmidt-App, BPA, P.O. Box 3621, Portland, OR 97208
621. Wendy Schmier, Westinghouse Idaho Nuclear Co., Inc., 1955 Freemont Avenue, P.O. Box 4000, Idaho Falls, ID 83403-5111
622. M. Paul Schmierbach, Chief, Tennessee Valley Authority, 226 Summer Place Building, 300 Summit Hill Drive, Knoxville, TN 37902
623. Craig Schmit, Energy & Environmental Research Center, University of North Dakota, Box 8213, University Station, Grand Forks, ND 58202
624. Sue Schneider, WEMCO, P.O. Box 398704, Cincinnati, OH 45239-8704
625. Allen Schubert, RCRA Program, T-441A, Rockwell International, Rocky Flats Plant, P.O. Box 464, Golden, CO 80402-0464
626. Carl Schwab, Environmental Engineer, Lawrence Berkeley Laboratory, 1 Cyclotron Road, Mail Stop 50B-3238, Berkeley, CA 94720
627. Science Applications International Corporation, 405 S. 8th St., Suite 201, Boise, ID 83702
628. Randy Scott, EH-24, 3E-094, U.S. Department of Energy, 1000 Independence Avenue, Washington, DC 20585
629. Secretary of Air Force, SAF/MIQ, Suite 4C916, Pentagon, Washington, DC 20330-1000
630. A. R. Seepo, Schenectady Naval Reactors Office, P.O. Box 1069, Schenectady, NY 12301

631. John J. Segna, Batelle-PNL, 901 D Street, SW, Suite 900, Washington, DC 20024-2115
632. Kevin Selby, Battelle-PNL, P. O. Box 999, MISN: P7-68, Richland, WA 99352
633. Lt. Sarah Seneviratne, NOAA, Cubicle 4450, OA3X1, 1325 East West Highway, Silver Spring, MD 20910
634. Richard F. Senk, U.S. DOE/EHD, P. O. Box 5400, Albuquerque, NM 87115
635. John Shaffer, Environmental Division, U.S. Department of Energy, P.O. Box A, Aiken, SC 29802
636. Deborah K. Shaver, ICF Incorporated, 9300 Lee Highway, Fairfax, VA 22031-1207
637. Dr. Richard B. Sheldon, General Electric Company, P.O. Box 8, Bldg. K-1, Room 3A15, Schenectady, NY 12301
638. Major Douglas R. Sherwood, 8535 Cirrus Court, Colorado Springs, CO 80920
639. George Sherwood, NE-82, E-451A, U.S. Department of Energy, Washington, DC 20545
640. Jean Shorett, PNL, 370 L'Enfant Promenade, Suite 900, Washington, DC 20024-2115
641. J. Lynn Sichelstiel, CH2MHill, 599 Oak Ridge Turnpike, Oak Ridge, TN 37830
642. Mr. Tom Sims, Director, Environmental Planning Division, Air Force Regional Civil Engineer-Eastern Region, AFRCE-ER/ROV, 77 Forsyth St. S.W., Atlanta, GA 30335-6801
643. J. E. Sinor, 7960 Niwot Road, Box 649, Niwot, CO 80544
644. Marina Skumanich, Battelle Seattle Research Center, 4000 Northeast 41st Street, Seattle, WA 98105
645. Peter Smiel, Knolls Atomic Power Lab, Kesselring Site Operations, 30050 Atomic Project Road, Ballston Spa, NY 12020-2817
646. Alexandra Smith, Bonneville Power Administration-AJ, P.O. Box 3621, AJ, Portland, OR 97208
647. D. Smith, DOE-HQ, Forrestal Bldg, DP-50, 1000 Independence Ave., Washington, DC 20585
648. Doug Smith, DOE, EM-6, 901D Street SW, Suite 900, Washington, DC 20024
649. Melissa W. Smith, Director, ES&H Division, DOE, Strategic Petroleum Reserve Project Management Office, 900 Commerce Road East, New Orleans, LA 70123
650. Patricia Smith, Bonneville Power Administration, Office of Environment, AJ, P.O. Box 3621, Portland, OR 97201
651. Rebecca Smith, U.S. Army-COE, Attn: CENAB-PL-EP, P.O. Box 1715, Baltimore, MD 21203-1715
652. Ronald J. Smith, Analytical Resources, Inc., 879 Fritztown Road, P.O. Box 2194, Reading, PA 19608
653. Gary Snodgrass, Nevada Operations Office, P.O. Box 98518, Las Vegas, NV 89109
654. Tony Snow, Jacobs Engineering Group, P.O. Box 2008, Lakeland, FL 33806-2008
655. D. J. Sommer, Westinghouse, P. O. Box 1970, Richland, WA 99352
656. Dale Sorensen, Babcock & Wilcox, P.O. Box 1469, MS-0301, Idaho Falls, ID 83403
657. Wayne J. Spetnagel, MMES, MS-2212, P.O. Box 628, Piketon, OH 45661
658. Dan Spiegelberg, EBASCO Environmental, 4960 Corporate Drive, Suite 140, Huntsville, AL 35805-6233
659. Constance Spooner, SAIC, MS R-1-3, 11251 Roger Bacon Drive, Reston, VA 22090
660. David Stair, Bechtel, P.O. Box 350, Oak Ridge, TN 37831-0350
661. Chris Staley, EG&G Idaho, P.O. Box 1625, Idaho Falls, ID 83415-2110
662. Dr. J. B. States, Mgr., Idaho Falls Operations Office, Advanced Sciences, Inc., 477 North Shoup Avenue, Idaho Falls, ID 83402-3658

- 663. Franklin Steans, Department of the Interior, Office of Env Project Review, 18th & C Streets, N.W., Washington, DC 20240
- 664. Cliff Stephan, EcoTek, Inc., P.O. Box 369, 1219 Banner Hill Road, Erwin, TN 37650
- 665. Mike Steepy, EG&G Mound Applied Technology, Bldg. 92, Miamisburg, OH 45343-3000
- 666. Robert J. Sterling, EG&G Idaho, P.O. Box 1625, Mail Stop 3128, Idaho Falls, ID 83415-3128
- 667. Lee Stevens, U.S. DOE, EM-331, Trevion II Bldg., GTN, Washington, DC 20585
- 668. Jay Stimmel, Los Alamos National Laboratory, Mail Stop C920, Los Alamos, NM 87544
- 669. Larry Stirling, EH-231, 3G-089, U.S. Department of Energy, 1000 Independence Ave., Washington, DC 20585
- 670. Maryanne Strain, Knolls Atomic Power Laboratory, P.O. Box 545, Windsor, CT 06095
- 671. Scott Stubblebine, SAIC-ECG, P.O. Box 2501, Oak Ridge, TN 37831
- 672. Maureen Sullivan, Department of Defense Environmental Office, 400 Army Navy Drive, #206, Arlington, VA 22202-2884
- 673. Echo Summers, SAIC, 101 S. Parke Ave., Suite 5, P.O. Box 50697, Idaho Falls, ID 83405
- 674. John Surmeir, Nuclear Regulatory Comm, Division of Waste Mngt, Mail Stop SS623, Washington, DC 20555
- 675. D. W. Swindle, Jr, Senior Program Manager, Radian Corporation, 120 S. Jefferson Circle, Oak Ridge, TN 37830
- 676. Anthony L. Takacs, Department of Energy, P.O. Box 700, Piketon, OH 45661
- 677. George Talley, Los Alamos National Laboratory, P.O. Box TA59, K-499, Los Alamos, NM 87544 (disk copy also)
- 678. Darwin M. Taras, US Army Material Command, AMCSF, 5001 Eisenhower Avenue, Alexandria, VA 22333
- 679. Bruce W. Taylor, General Electric-Knolls Atomic Power Laboratory, P.O. Box 545, Windsor, CT 06095
- 680. Dr. David W. Taylor, SAIC, P.O. Box 2501, 800 Oak Ridge Turnpike, Oak Ridge, TN 37831
- 681. Robert D. Taylor, Ph.D., The MITRE Corporation, c/o AFCEE/EST, Bldg, T-170, Brooks AFB, TX 78235-5000
- 682. Thomas Taylor, Professional Analysis, Inc., 1050 E. Flamingo Road, Suite 367, Las Vegas, NV 89119
- 683. Bill Teichert, Radian Corporation, 120 S. Jefferson Circle, Oak Ridge, TN 37830
- 684. M. E. Teneyck, Westinghouse Naval Reactors Facility, P.O. Box 2068, Idaho Falls, ID 83401
- 685. Michael Teresinski, Basic Energy Sciences, U.S. DOE, Room ER-13, 1000 Independence Ave., SW, Washington, DC 20585
- 686. Stephen G. TerMaath, COL,USAF (ret), Engineering-Science, Inc., 10521 Rosehaven Street, Fairfax, VA 22030-2899
- 687. Charles Terrell, Ecological Sciences Division, Soil Conservation Service, P. O. Box 2890, Washington, DC 20013
- 688. Bill Thomas, Radian Corporation, 120 S. Jefferson Circle, Oak Ridge, TN 37830
- 689. Carolyn Thompson, EH-231, U.S. Department of Energy, 1000 Independence Ave., Washington, DC 20585
- 690-691. Lois Thompson, EH-231, GA-076, U.S. Department of Energy, 1000 Independence Ave., Washington, DC 20585
- 692. Donna Thurston, SAIC, M: R-1-3, 11251 Roger Bacon Drive, Reston, VA 22090
- 693. Jim Tkachyk, EG&G, P.O. Box 1625, MS-4110, Idaho Falls, ID 83415

- 694. David Tolle, U.S. DOE, Bldg. 617, Argonne National Laboratory, 9700 S. Cass Avenue, Argonne, IL 60439
- 695. Bob Toro, BDM, Inc., 12850 Middlebrook Road, Suite 300, Germantown, MD 20874
- 696. Ken Torrisi, ANE-463, FAA New England Region, 12 New England Executive Park, Burlington, MA 01803
- 697. Tom Traceski, EH-232, GA-076, U.S. Department of Energy, 1000 Independence Avenue, Washington, DC 20585
- 698. Thomas M. Treger, U.S. DOE, Environmental Restoration Division, Savannah River Operations Office, P.O. Box A, Aiken, SC 29802
- 699. Dean F. Triebel, Amarillo Area Office, P.O. Box 30030/ESHB, Amarillo, TX 79120-0030
- 700. Jerry Truitt, SAIC, P.O. Box 2501, 800 Oak Ridge Turnpike, Oak Ridge, TN 37831-2501
- 701. Deborah Turner, USDOE/PAO, P.O. Box 2900, Largo, FL 34649
- 702. R. G. Upchurch, Westinghouse Hanford Company, P.O. Box 1971, MSINF B-19, Richland, WA 99352
- 703. U.S. AEHA, Air Pollution Engineering Division, Attn: HSHB-ME-A/Major Pilcher, Aberdeen Proving Ground, MD 21010-5422
- 704. U.S. Department of Agriculture, National Agricultural Library, Serials Unit, Room 002, D92/643, Beltsville, MD 20705-2351
- 705. U.S. Department of Energy, P.O. Box 5400, Albuquerque Operations Office, Management Support Division, Albuquerque, NM 87115
- 706. U.S. Department of Energy, Albuquerque Operations Office, Environmental Protection Division, P.O. Box 5400, Albuquerque, NM 87115
- 707. U.S. Department of Energy, Savannah River Ops. Office, Environmental Division, P.O. Box A, Aiken, SC 29801
- 708. Kester Uzochukwu, Westinghouse Savannah River Company, Bldg. 703H, P.O. Box 616, Aiken, SC 29802
- 709. Edward Vallario, EH-33, G-122, U.S. Department of Energy, Washington, DC 20545
- 710. LaDell Vance, H4-16, Westinghouse Hanford, P.O. Box 1970, Richland, WA 99352
- 711. Rebecca Vanscyoc, 9474 Kearny Villa Rd., Suite 103, San Diego, CA 92126
- 712. Arthur T. Vollmer, Jacobs Engineering Group, Inc., 5301 Central Avenue, NE, Suite 1400, Albuquerque, NM 87108
- 713. Thomas Wajtalik, Signal Place 4 North 32 C, 1100 Market Street, Chattanooga, TN 37402
- 714. Rob Waldman, Alaska Power Administration, Environmental, Safety, and Health Manager, 2770 Sherwood Lane, #2B, Juneau, AK 99801-8545
- 715. Dennis Walker, EG&G Idaho Inc., 1955 Fremont Avenue, P.O. Box 1625, MS-3413, Idaho Falls, ID 83415-3414
- 716. Andy Wallo, EH-231, GA-076, U.S. Department of Energy, 1000 Independence Ave., Washington, DC 20585
- 717. Edward Wandelt, USPS, 11710 Amkin Drive, Clifton, VA 22024
- 718. W. E. Ward, General Electric Co., P.O. Box 545, Bldg. 1, Windsor, CT 06095
- 719. Mary Jorgenson Waters, EG&G Idaho, P.O. Box 1625, Idaho Falls, ID 83415-3505
- 720. Laura Watlington, INEL, 1955 Fremont Avenue, P.O. Box 4000, Idaho Falls, ID 83403-4000
- 721. Ken Weber, Martin Marietta Specialty Components, Inc., P.O. Box 2908, Largo, FL 34649
- 722. Regan S. Weeks, Westinghouse Hanford Company, P.O. Box 1970, Mailstop H4-57, Richland, WA 99352
- 723. Brent Weesner, General Electric, P.O. Box 2908, Largo, FL 34649

- 724. Randy Weigel, Westinghouse Savannah River Company, Environmental Protection Department, Bldg. 742-A, P.O. Box 616, Aiken, SC 29802
- 725. Roy F. Weston, Inc., 12800 Middlebrook Road, #207, Germantown, MD 20874-5201
- 726. Bill White, U.S. Department of Energy, Chicago Operations Office, 9800 South Cass Avenue, Argonne, IL 60439
- 727. Beverly Whitehead, U.S. DOE, EH-231, 1000 Independence Avenue, Washington, DC 20585
- 728. A. E. Whiteman, U.S. DOE, Rocky Flats Area Office, P.O. Box 928, Golden, CO 80401
- 729. William M. Wierzbicki, Building 707-F, Savannah River Site, Aiken, SC 29808
- 730. Debra J. Wilcox, Attorney, Ecology & Environment, Inc., 950 Energy Drive, Idaho Falls, ID 83402
- 731. Don J. Wilkes, SAIC, P.O. Box 99, Hobbs Road, West Paducah, KY 42086
- 732. Ted Williams, EH-22, 4G-036, U.S. DOE, 1000 Independence Ave., Washington, DC 20585
- 733. Dr. W. Alexander Williams, A-104, Environmental Protection Agency, Office of Federal Activities, 401 M Street, S.W., Rm. 2125, Washington, DC 20460
- 734. Michele Wilson, Westinghouse Savannah River Company, Environmental Protect Department, Building 742A, P.O. Box 616, Aiken, SC 29802
- 735. Mary Windmiller, SWEC/SRS, Bldg. 704-13K, Aiken, SC 29808
- 736. Eileen M. Wisser, WSO-6, P.O. Box 545, Windsor, CT 06095
- 737. Frank J. Wobber, Division of Ecological Research, Office of Health and Environmental Research, Office of Energy Research, MS-E201, Department of Energy, Washington, DC 20545
- 738. Mr. Paul J. Yaroschak, Dep. Dir., Environmental Quality Div, Naval Fac. Engr. Command (Code-112), 200 Stovall Street, Alexandria, VA 22332
- 739. Veronica Ybarra, Jacobs Engineering Group, 5301 Central Avenue, NE, Suite 1600, Albuquerque, NM 87108
- 740. J. Gary Yeager, Manager of Chemical Waste Department 7721, Sandia National Laboratories, P.O. Box 5800, Albuquerque, NM 87185-5800
- 741. Bennett Young, DOE Grand Junction Project Office, P.O. Box 2567, Grand Junction, CO 81502
- 742. Katherine L. Yuracko, Office of Management and Budget, 725 17th Street N.W., Room 8002, Washington, DC 20503
- 743. Diane Zdelar, Westinghouse Environmental Management Company of Ohio, P.O. Box 398704, Cincinnati, OH 45239
- 744. Zelda Ziegler, Babcock & Wilcox Idaho, P.O. Box 1469, MS-0206, Idaho Falls, ID 83403
- 745. Julie Zoller, 5200 Shady Grove Road, Suite 350, Rockville, MD 20850
- 746-755. Office of Scientific and Technical Information, P.O. Box 62, Oak Ridge, TN 37831
- 756. OR-DOE, Assistant Manager, Energy Research and Development

END

**DATE
FILMED**

2 / 16 / 93