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**COMPREHENSIVE ENVIRONMENTAL RESPONSE,  
COMPENSATION, AND LIABILITY ACT OF 1980  
“SUPERFUND”**

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compliance with applicable pretreatment standards of section 307 (b) or (c) of the Clean Water Act and enforceable requirements in a pretreatment program submitted by a State or municipality for Federal approval under section 402 of such Act, and (K) any release of source, special nuclear, or byproduct material, as those terms are defined in the Atomic Energy Act of 1954, in compliance with a legally enforceable license, permit, regulation, or order issued pursuant to the Atomic Energy Act of 1954.

(11) The term “Fund” or “Trust Fund” means the Hazardous Substance Response Fund established by section 221<sup>1</sup> of this Act or, in the case of a hazardous waste disposal facility for which liability has been transferred under section 107(k) of this Act, the Post-closure Liability Fund established by section 232<sup>1</sup> of this Act.

(12) The term “ground water” means water in a saturated zone or stratum beneath the surface of land or water.

(13) The term “guarantor” means any person, other than the owner or operator, who provides evidence of financial responsibility for an owner or operator under this Act.

(14) The term “hazardous substance” means (A) any substance designated pursuant to section 311(b)(2)(A) of the Federal Water Pollution Control Act, (B) any element, compound, mixture, solution, or substance designated pursuant to section 102 of this Act, (C) any hazardous waste having the characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (but not including any waste the regulation of which under the Solid Waste Disposal Act has been suspended by Act of Congress), (D) any toxic pollutant listed under section 307(a) of the Federal Water Pollution Control Act, (E) any hazardous air pollutant listed under section 112 of the Clean Air Act, and (F) any imminently hazardous chemical substance or mixture with respect to which the Administrator has taken action pursuant to section 7 of the Toxic Substances Control Act. The term does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance under subparagraphs (A) through (F) of this paragraph, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).

(15) The term “navigable waters” or “navigable waters of the United States” means the waters of the United States, including the territorial seas.

(16) The term “natural resources” means land, fish, wildlife, biota, air, water, ground water, drinking water supplies, and other such resources belonging to, managed by, held in trust by, appertaining to, or otherwise controlled by the United States (including the resources of the fishery conservation zone established by the Fishery Conservation and Management Act of 1976), any State, local government, or any foreign govern-

<sup>1</sup> Sections 221 and 232 were repealed by sections 517(c)(1) and 514(b), respectively, of Public Law 99-499.

## (d) RULES APPLICABLE TO SUBSECTION (a)(1) ACTIONS.—

(1) NOTICE.—No action may be commenced under subsection (a)(1) of this section before 60 days after the plaintiff has given notice of the violation to each of the following:

(A) The President.

(B) The State in which the alleged violation occurs.

(C) Any alleged violator of the standard, regulation, condition, requirement, or order concerned (including any provision of an agreement under section 120).

Notice under this paragraph shall be given in such manner as the President shall prescribe by regulation.

(2) DILIGENT PROSECUTION.—No action may be commenced under paragraph (1) of subsection (a) if the President has commenced and is diligently prosecuting an action under this Act, or under the Solid Waste Disposal Act to require compliance with the standard, regulation, condition, requirement, or order concerned (including any provision of an agreement under section 120).

(e) RULES APPLICABLE TO SUBSECTION (a)(2) ACTIONS.—No action may be commenced under paragraph (2) of subsection (a) before the 60th day following the date on which the plaintiff gives notice to the Administrator or other department, agency, or instrumentality that the plaintiff will commence such action. Notice under this subsection shall be given in such manner as the President shall prescribe by regulation.

(f) COSTS.—The court, in issuing any final order in any action brought pursuant to this section, may award costs of litigation (including reasonable attorney and expert witness fees) to the prevailing or the substantially prevailing party whenever the court determines such an award is appropriate. The court may, if a temporary restraining order or preliminary injunction is sought, require the filing of a bond or equivalent security in accordance with the Federal Rules of Civil Procedure.

(g) INTERVENTION.—In any action under this section, the United States or the State, or both, if not a party may intervene as a matter of right. For other provisions regarding intervention, see section 113.

(h) OTHER RIGHTS.—This Act does not affect or otherwise impair the rights of any person under Federal, State, or common law, except with respect to the timing of review as provided in section 113(h) or as otherwise provided in section 309 (relating to actions under State law).

(i) DEFINITIONS.—The terms used in this section shall have the same meanings as when used in title I.

[42 U.S.C. 9659]

**SEC. 311. RESEARCH, DEVELOPMENT, AND DEMONSTRATION.****(a) HAZARDOUS SUBSTANCE RESEARCH AND TRAINING.—**

**(1) AUTHORITIES OF SECRETARY.—**The Secretary of Health and Human Services (hereinafter in this subsection referred to as the Secretary), in consultation with the Administrator, shall establish and support a basic research and training program (through grants, cooperative agreements, and contracts) consisting of the following:

- (A) Basic research (including epidemiologic and ecologic studies) which may include each of the following:
- (i) Advanced techniques for the detection, assessment, and evaluation of the effects on human health of hazardous substances.
  - (ii) Methods to assess the risks to human health presented by hazardous substances.
  - (iii) Methods and technologies to detect hazardous substances in the environment and basic biological, chemical, and physical methods to reduce the amount and toxicity of hazardous substances.
- (B) Training, which may include each of the following:
- (i) Short courses and continuing education for State and local health and environment agency personnel and other personnel engaged in the handling of hazardous substances, in the management of facilities at which hazardous substances are located, and in the evaluation of the hazards to human health presented by such facilities.
  - (ii) Graduate or advanced training in environmental and occupational health and safety and in the public health and engineering aspects of hazardous waste control.
  - (iii) Graduate training in the geosciences, including hydrogeology, geological engineering, geophysics, geochemistry, and related fields necessary to meet professional personnel needs in the public and private sectors and to effectuate the purposes of this Act.
- (2) DIRECTOR OF NIEHS.—The Director of the National Institute for Environmental Health Sciences shall cooperate fully with the relevant Federal agencies referred to in subparagraph (A) of paragraph (5) in carrying out the purposes of this section.
- (3) RECIPIENTS OF GRANTS, ETC.—A grant, cooperative agreement, or contract may be made or entered into under paragraph (1) with an accredited institution of higher education. The institution may carry out the research or training under the grant, cooperative agreement, or contract through contracts, including contracts with any of the following:
- (A) Generators of hazardous wastes.
  - (B) Persons involved in the detection, assessment, evaluation, and treatment of hazardous substances.
  - (C) Owners and operators of facilities at which hazardous substances are located.
  - (D) State and local governments.
- (4) PROCEDURES.—In making grants and entering into cooperative agreements and contracts under this subsection, the Secretary shall act through the Director of the National Institute for Environmental Health Sciences. In considering the allocation of funds for training purposes, the Director shall ensure that at least one grant, cooperative agreement, or contract shall be awarded for training described in each of clauses (i), (ii), and (iii) of paragraph (1)(B). Where applicable, the Director may choose to operate training activities in cooperation with

the Director of the National Institute for Occupational Safety and Health. The procedures applicable to grants and contracts under title IV of the Public Health Service Act shall be followed under this subsection.

(5) **ADVISORY COUNCIL.**—To assist in the implementation of this subsection and to aid in the coordination of research and demonstration and training activities funded from the Fund under this section, the Secretary shall appoint an advisory council (hereinafter in this subsection referred to as the “Advisory Council”) which shall consist of representatives of the following:

- (A) The relevant Federal agencies.
- (B) The chemical industry.
- (C) The toxic waste management industry.
- (D) Institutions of higher education.
- (E) State and local health and environmental agencies.
- (F) The general public.

(6) **PLANNING.**—Within nine months after the date of the enactment of this subsection, the Secretary, acting through the Director of the National Institute for Environmental Health Sciences, shall issue a plan for the implementation of paragraph (1). The plan shall include priorities for actions under paragraph (1) and include research and training relevant to scientific and technological issues resulting from site specific hazardous substance response experience. The Secretary shall, to the maximum extent practicable, take appropriate steps to coordinate program activities under this plan with the activities of other Federal agencies in order to avoid duplication of effort. The plan shall be consistent with the need for the development of new technologies for meeting the goals of response actions in accordance with the provisions of this Act. The Advisory Council shall be provided an opportunity to review and comment on the plan and priorities and assist appropriate coordination among the relevant Federal agencies referred to in subparagraph (A) of paragraph (5).

(b) **ALTERNATIVE OR INNOVATIVE TREATMENT TECHNOLOGY RESEARCH AND DEMONSTRATION PROGRAM.**—

(1) **ESTABLISHMENT.**—The Administrator is authorized and directed to carry out a program of research, evaluation, testing, development, and demonstration of alternative or innovative treatment technologies (hereinafter in this subsection referred to as the “program”) which may be utilized in response actions to achieve more permanent protection of human health and welfare and the environment.

(2) **ADMINISTRATION.**—The program shall be administered by the Administrator, acting through an office of technology demonstration and shall be coordinated with programs carried out by the Office of Solid Waste and Emergency Response and the Office of Research and Development.

(3) **CONTRACTS AND GRANTS.**—In carrying out the program, the Administrator is authorized to enter into contracts and cooperative agreements with, and make grants to, persons, public entities, and nonprofit private entities which are exempt from tax under section 501(c)(3) of the Internal Revenue Code