

(G) engineered-barrier failure modes; and  
 (H) fission product release and transport from failed fuel;

(6) provide for the examination and analysis of any nuclear powerplant fuel, component, or system which the Secretary deems to offer significant benefit in safety analysis and which is made available to the Secretary for a nominal cost, such as \$1: *Provided, however*, That the Secretary shall accept only the number of samples of such fuel, component, or system necessary to carry out such examination and analysis; and

(7) identify the aptitudes, training, and manning levels which are necessary to assure reliable operator performance under normal, abnormal, and emergency conditions.

(b) In carrying out the generic safety research, development, and demonstration program established under this chapter, the Secretary—

(1) shall coordinate with the Commission and, to the extent necessary, enter into a new memorandum of understanding or revise existing memoranda for the purpose of eliminating unnecessary duplication and avoiding programmatic conflict with any reactor safety research program of the Commission, including the Improved Safety Systems Research program;

(2) shall, to the extent practical, coordinate his activities with such other Government agencies, foreign governments, and industry as he deems appropriate to utilize their expertise, to minimize duplication of effort, and to ensure that information useful for improved concepts applicable to nuclear powerplant safety can be applied in a timely manner. The Secretary may enter into agreements and memoranda of understanding to accomplish these ends, but no such agreement shall have the effect of delaying the development and implementation of programs authorized under this chapter;

(3) shall utilize, to the extent feasible, underutilized federally owned research reactors and facilities, along with the associated personnel, to maintain existing capabilities and to ensure that the research is generic in nature; and

(4) shall make such recommendations as are practical to minimize the complexity of nuclear powerplant systems, including secondary systems, and operations.

(Pub. L. 96-567, § 4, Dec. 22, 1980, 94 Stat. 3330.)

#### TRANSFER OF FUNCTIONS

For transfer of certain functions from Nuclear Regulatory Commission to Chairman thereof, see Reorg. Plan No. 1 of 1980, 45 F.R. 40561, 94 Stat. 3585, set out as a note under section 5841 of this title.

### § 9704. National reactor engineering simulator feasibility study

#### (a) Consultative requirements; purpose

The Secretary, in consultation with the Commission and the Advisory Committee, shall initiate a study of the need for and feasibility of establishing a reactor engineering simulator facility at a national laboratory, for the primary

purpose of fostering research in generic design improvements and simplifications through the simulation of the performance of various types of light water reactors under a wide variety of abnormal conditions and postulated accident conditions.

#### (b) Applicability of relevant factors

In performing the study, the Secretary shall consider relevant factors including, but not limited to—

(1) the potential advantages that would accrue from the establishment of such a facility;

(2) the extent to which such a facility would further the generic safety research and development program established by this chapter;

(3) the extent to which such a facility can be established by nongovernmental entities;

(4) the opportunities for cost sharing by nongovernmental entities in the construction and operation of such a facility;

(5) the importance of such a facility in emergencies to limit the extent of any future nuclear powerplant excursions;

(6) the potential for international cooperation in the establishment and operation of such a facility; and

(7) the appropriate national laboratory for siting such a facility.

#### (c) Report to Congressional committees

The Secretary shall, by January 1, 1982, submit to the Committee on Science and Technology of the House of Representatives and the Committee on Energy and Natural Resources of the Senate a report characterizing the study and the resulting conclusions and recommendations.

(Pub. L. 96-567, § 5, Dec. 22, 1980, 94 Stat. 3331.)

#### CHANGE OF NAME

Committee on Science and Technology of House of Representatives changed to Committee on Science, Space, and Technology of House of Representatives by House Resolution No. 5, One Hundred Twelfth Congress, Jan. 5, 2011.

#### TRANSFER OF FUNCTIONS

For transfer of certain functions from Nuclear Regulatory Commission to Chairman thereof, see Reorg. Plan No. 1 of 1980, 45 F.R. 40561, 94 Stat. 3585, set out as a note under section 5841 of this title.

### § 9705. Federal Nuclear Operations Corps' study

#### (a) Cooperation and coordination requirements; purpose

The Secretary, in cooperation with the Nuclear Regulatory Commission, shall initiate a study as to the sufficiency of efforts in the United States to provide specially trained professionals to operate the controls of nuclear powerplants and other facilities in the back-end of the nuclear fuel cycle. In carrying out the study, the Secretary shall coordinate his activities with the ongoing programs of the utility industry and other Federal governmental agencies for obtaining high standards of operator performance.

#### (b) Assessments

(1) In conducting the study the Secretary shall assess the desirability and feasibility of creating a Federal Corps of such professionals to inspect and supervise such operations.