

tion manual¹ published by the Office of Management and Budget in 1987;

(7) "Secretary" means the Secretary of Energy.

(Pub. L. 101-425, § 3, Oct. 15, 1990, 104 Stat. 915.)

§ 5303. Establishment of program

The Secretary, acting in accordance with authority provided in the Federal Non-Nuclear Research and Development Act of 1974 (42 U.S.C. 5901 et seq.), except as otherwise provided in this chapter, shall establish a Metal Casting Competitiveness Research Program (hereafter in this chapter referred to as the "Program") for the purpose of performing and promoting the performance of research and development on issues related to the technology competitiveness and energy efficiency of the United States metal casting industry.

(Pub. L. 101-425, § 4, Oct. 15, 1990, 104 Stat. 916.)

REFERENCES IN TEXT

The Federal Non-Nuclear Research and Development Act of 1974, referred to in text, probably means the Federal Nonnuclear Energy Research and Development Act of 1974, Pub. L. 93-577, Dec. 31, 1974, 88 Stat. 1878, as amended, which is classified generally to chapter 74 (§ 5901 et seq.) of Title 42, The Public Health and Welfare. For complete classification of this Act to the Code, see Short Title note set out under section 5901 of Title 42 and Tables.

§ 5304. Operation of program

(a) Solicitation of proposals

Within one year after October 15, 1990, the Secretary shall solicit and, subject to available appropriations, select proposals on a competitive basis from applicants to carry out the program under section 5303 of this title. In order for a proposal to be considered by the Secretary, the applicant shall have in existence at the time the proposal is submitted the following qualifications:

- (1) the technical capability to enable it to make use of existing research support and facilities in carrying out its research objectives;
- (2) a multidisciplinary research staff experienced in metal casting or other directly related technologies; and
- (3) the facilities and equipment capable of conducting at least laboratory scale testing or demonstration of metal casting or related processes.

(b) Proposal criteria

Each proposal shall—

- (1) demonstrate the support of the metal casting industry by describing—
 - (A) how industry has participated in deciding what research activities will be undertaken;
 - (B) how industry will participate in the evaluation of the applicant's progress in research and development activities; and
 - (C) the extent to which industry funds are committed to the applicant's proposal;
- (2) have a commitment for matching funds from non-Federal sources, which shall consist of:

- (A) cash, or
- (B) as determined by the Secretary, the fair market value of equipment, services, materials, appropriate technology transfer activities, and other assets directly related to the proposal's cost;

(3) include a single or multiyear management plan that outlines how the research and development activities will be administered and carried out;

(4) state the annual cost of the proposal and a breakdown of those costs; and

(5) describe the technology transfer mechanisms the applicant will use to make available research results to industry and to other researchers.

(c) Content of management plan

The management plan set forth in subsection (b)(3) shall—

(1) outline the basic research and development activities expected to be performed;

(2) outline who will conduct those research activities;

(3) establish the time frame over which the research activities will take place; and

(4) define the overall program management and direction by—

(A) identifying managerial, organizational and administrative procedures and responsibilities;

(B) outlining how the coordination of research and development between the individuals and organizations involved will be achieved;

(C) demonstrating how implementation and monitoring of the progress of research projects after receipt of funding from the Secretary will be achieved;

(D) demonstrating how recommendations and implementations on modifications to the plan will be achieved; and

(E) providing sufficient rationale to support the plan's costs.

(d) Selection of proposals

From the proposals submitted, the Secretary shall select proposals for funding. The Secretary shall attempt to select at least four proposals. The Secretary shall select the proposals that—

(1) will best result in carrying out needed metal casting research and development in one or more of the following general areas—

(A) solidification and casting technologies;

(B) computational modeling and design;

(C) processing technologies and design for energy efficiency, material conservation, environmental protection, or industrial productivity; and

(D) other areas of research, which in the judgment of the Secretary, after consulting with the Board established in section 5306 of this title, further the purposes of this chapter;

(2) represent research and development in specific areas identified in the "Metal Casting Research Priorities" developed annually by the Board pursuant to section 5306(b)(1) of this title;

(3) to the greatest extent possible and subject to available appropriations, ensure that

¹ So in original. Probably should be capitalized.