

rectly relevant to the functions of the Board. A majority of the members of each Board shall be trained in a field of marine or aquatic science and shall be currently engaged in research or research administration.

(3) Terms

Each appointed member of a Board shall serve for a term of 4 years.

(4) Vacancies

In the event of a vacancy, a replacement member shall be appointed in the same manner and in accordance with the same requirements as the member being replaced and shall serve the remainder of the term of the replaced member.

(5) Reimbursement of expenses

Each appointed member of a Board may be paid actual travel expenses, and per diem in lieu of subsistence expenses when away from the member's usual place of residence, in accordance with section 5703 of title 5, when engaged in the actual performance of Board duties.

(c) Functions

Each Board shall, in accordance with the provisions of this chapter—

(1) develop and submit to the Administrators of the National Oceanic and Atmospheric Administration and the Environmental Protection Agency a marine research plan, including periodic amendments thereto, that meets the requirements of section 1447c of this title;

(2) provide a forum for coordinating research among research institutions and agencies;

(3) provide for review and comment on research plans by affected users and interests, such as the commercial and recreational fishing industries, other marine industries, State and local government entities, and environmental organizations;

(4) ensure that the highest quality of research projects will be conducted to carry out the comprehensive plan; and

(5) prepare, for submission to Congress, a periodic report on the marine environmental research issues and activities within the region in accordance with section 1447e of this title.

(d) Powers

Each Board shall be authorized to—

(1) cooperate with Federal agencies, with States and with local government entities, interstate and regional agencies, other public agencies and authorities, nonprofit institutions, laboratories, and organizations, or other appropriate persons, in the preparation and support of marine research in the region;

(2) enter into contracts, cooperative agreements or grants to State and local governmental entities, other public agencies or institutions, and non-profit institutions and organizations for purposes of carrying out the provisions of this chapter;

(3) collect and make available through publications and other appropriate means, the results of, and other information pertaining to, the research conducted in the region;

(4) call conferences on regional marine research and assessment issues, giving oppor-

tunity for interested persons to be heard and present papers at such conferences;

(5) develop and stimulate, in consultation with the Department of State, joint marine research projects with foreign nations;

(6) utilize facilities and personnel of existing Federal agencies, including scientific laboratories and research facilities;

(7) accept, and for all general purposes of this Act, utilize funds from other sources, including but not limited to State and local funds, university funds, and donations; and

(8) acquire secret processes, inventions, patent applications, patents, licenses, and property rights, by purchase, license, lease, or donation.

(e) Administration

(1) Practices and procedures

Each Board shall determine its organization, and prescribe its practices and procedures for carrying out its functions under this chapter. Each Board should use existing research administrative capability to the extent practicable.

(2) Committees and subcommittees

Each Board shall establish such committees and subcommittees as are appropriate in the performance of its functions.

(3) Staff and support

Each Board is authorized to hire such staff as are necessary to carry out the functions of the Board.

(f) Termination

Each Board shall cease to exist on October 1, 1999, unless extended by Congress.

(Pub. L. 92-532, title IV, § 403, as added Pub. L. 101-593, title III, § 301, Nov. 16, 1990, 104 Stat. 2964.)

REFERENCES IN TEXT

This Act, referred to in subsec. (d)(7), means Pub. L. 92-532, which enacted this chapter, chapter 32 (§ 1431 et seq.) of this title, and chapters 27 (§ 1401 et seq.) and 41 (§ 2801 et seq.) of Title 33, Navigation and Navigable Waters.

§ 1447c. Regional research plans

(a) Development and amendment of regional plans

(1) In general

Each Board shall develop a comprehensive 4-year marine research plan for the region for which the Board is responsible, and shall amend the plan at such times as the Board considers necessary to reflect changing conditions, but no less frequently than once every 4 years.

(2) Review and consideration of national plan

In the development and amendment of its research plan, the Board shall consider findings and recommendations of the national plan developed pursuant to the National Ocean Pollution Planning Act of 1978 (33 U.S.C. 1701 et seq.).¹

¹ See References in Text note below.

(b) Contents of plan

Such marine research plan shall include—

(1) an overview of the environmental quality conditions in the coastal and marine waters of the region and expected trends in these conditions;

(2) a comprehensive inventory and description of all marine research related to water quality and ecosystem health expected to be conducted in the region during the 4-year term of the research plan;

(3) a statement and explanation of the marine research needs and priorities applicable to the marine and coastal waters of the region over the upcoming 10-year period with emphasis on the upcoming 3-to-5 year period;

(4) an assessment of how the plan will incorporate existing marine, coastal, and estuarine research and management in the region, including activities pursuant to section 1330 of title 33 and section 1461 of this title; and

(5) a general description of marine research and monitoring objectives and timetables for achievement through the funding of projects under this chapter during the 4-year period covered by the plan so as to meet the priorities specified in the plan in accordance with paragraph (3).

(c) Plan review and approval**(1) In general**

When a Board has developed a marine research plan, including amendments thereto, the Board shall submit the plan to the Administrator of the National Oceanic and Atmospheric Administration and the Administration of the Environmental Protection Agency, who shall jointly determine whether the plan meets the requirements of subsection (b) of this section.

(2) Time for approval or disapproval

The Administrator of the National Oceanic and Atmospheric Administration and the Administrator of the Environmental Protection Agency, shall jointly approve or disapprove such research plan within 120 days after receiving the plan.

(3) Action after disapproval

In the case of disapproval of such research plan, the Administrator of the National Oceanic and Atmospheric Administration and the Administrator of the Environmental Protection Agency shall jointly notify the appropriate Board in writing, stating in detail the revisions necessary to obtain approval of the plan. Such Administrators shall approve or disapprove the revised plan within 90 days after receiving the revised plan from the Board.

(Pub. L. 92-532, title IV, § 404, as added Pub. L. 101-593, title III, § 301, Nov. 16, 1990, 104 Stat. 2966.)

REFERENCES IN TEXT

The National Ocean Pollution Planning Act of 1978, referred to in subsec. (a)(2), is Pub. L. 95-273, May 8, 1978, 92 Stat. 228, as amended, which was classified generally to chapter 31 (§ 1701 et seq.) of Title 33, Navigation and Navigable Waters, and was repealed by Pub. L. 102-567, title II, § 204, Oct. 29, 1992, 106 Stat. 4282.

§ 1447d. Research grant program**(a) Program administration**

The Administrator of the National Oceanic and Atmospheric Administration shall administer a grant program to support the administrative functions of each Board.

(b) Research grants

(1) Each Board may annually submit a grant application to the Administrator of the National Oceanic and Atmospheric Administration to fund projects aimed at achieving the research priorities set forth in each research plan, including amendments thereto, developed and approved pursuant to section 1447c of this title.

(2) Projects eligible for funding under this section shall include research, investigations, studies, surveys, or demonstrations with respect to—

(A) baseline assessment of marine environmental quality, including chemical, physical, and biological indicators of environmental quality;

(B) effects or potential effects of contaminants, including nutrients, toxic chemicals and heavy metals, on the environment, including marine and aquatic organisms;

(C) effects of modification of habitats, including coastal wetlands, seagrass beds and reefs, on the environment, including marine organisms;

(D) assessment of impacts of pollutant sources and pollutant discharges into the coastal environment;

(E) transport, dispersion, transformation, and fate and effect of contaminants in the marine environment;

(F) marine and estuarine habitat assessment and restoration;

(G) methods and techniques for modeling environmental quality conditions and trends;

(H) methods and techniques for sampling of water, sediment, marine and aquatic organisms, and demonstration of such methods and techniques;

(I) the effects on human health and the environment of contaminants or combinations of contaminants at various levels, whether natural or anthropogenic, that are found in the marine environment;

(J) environmental assessment of potential effects of major coastal and offshore development projects in the region;

(K) assessment of the effects of climate change on marine resources in the region; and

(L) analysis and interpretation of research data for the benefit of State and local environmental protection and resource management agencies in the region.

(3) Grant applications submitted pursuant to this subsection shall include—

(A) a description of the specific research projects to be conducted;

(B) identification of the organization responsible for each project and the principal investigator directing the project;

(C) a budget statement for each project;

(D) a schedule of milestones and interim products for each research project;

(E) a description of the relationship of the proposed project to the goals, objectives, and