

waive the requirement for public consultation to the extent that public participation in the approval process would defeat the purpose of the information collection, violate State or Federal law, or substantially interfere with any agency's ability to perform its statutory obligations. The Director of the Information Resources Management Group publishes this notice containing proposed information collection requests prior to submission of these requests to OMB. Each proposed information collection, grouped by office, contains the following: (1) Type of review requested, e.g., new, revision, extension, existing or reinstatement; (2) Title; (3) Summary of the collection; (4) Description of the need for, and proposed use of, the information; (5) Respondents and frequency of collection; and (6) Reporting and/or Recordkeeping burden. OMB invites public comment at the address specified above. Copies of the requests are available from Patrick J. Sherrill at the address specified above.

Dated: February 18, 1997.

Gloria Parker,

Director, Information Resources Management Group.

Office of Bilingual Education and
Minority Languages and Affairs

Type of Review: REINSTATEMENT.

Title: Biennial Report Form for the
Emergency Immigrant Education
Program.

Frequency: Biennially.

Affected Public: State, Local or Tribal
Gov't, SEAs or LEAs.

Reporting and Recordkeeping Burden:

Responses: 944.

Burden Hours: 5,620.

Abstract: This form is used by State educational agencies to submit a biennial report to the Secretary concerning expenditures of EIEP funds by their local educational agencies as well as national origin of immigrant children served under the Emergency Immigrant Education Act (Title VI of Public Law 98-511, 20 U.S.C. 4101-4108, as amended by Pub. L. 103-382, 20 U.S.C. 7541-7549).

[FR Doc. 97-4411 Filed 2-21-97; 8:45 am]

BILLING CODE 4000-01-P

DEPARTMENT OF ENERGY

Office of Energy Research

Energy Research Financial Assistance Program Notice 97-09: Biotechnological Investigations— Ocean Margin Program (BI-OMP)

AGENCY: Office of Energy Research, U.S. Department of Energy.

ACTION: Notice inviting research grant applications.

SUMMARY: The Office of Health and Environmental Research (OHER) of the Office of Energy Research, U.S. Department of Energy (DOE) announces its interest in receiving research applications involving the use of molecular biological and biogeochemical techniques to understand the linkages between coastal carbon and nitrogen cycles (primary production and microbial processes) in the Northern and Temperate latitudes. This information is crucial to the responses of ocean margin ecosystems to atmospheric radiative budgets and global biogeochemical cycles. Specifically, DOE seeks applications to:

- Apply new and innovative techniques in marine molecular biology and marine biotechnology to assess fixation of carbon dioxide from the atmosphere, determine the mechanisms and processes that control the dynamics of nitrogen fixation or denitrification in coastal waters and sediments, define the coupling and/or decoupling of carbon and nitrogen cycles in coastal environments, and determine the linkages between the function and structure of microbial communities mediating carbon and nitrogen cycling in coastal environments, and

- Examine the environmental factors (including nutrient availability, temperature, irradiance, and biopolymer lability) that affect the linkages between primary productivity, the utilization of particulate and dissolved organic matter (POM and DOM) by bacterial populations, and nitrogen cycling in coastal areas.

Applications must involve mutually collaborative partnerships between institutions with a strong tradition of research in marine sciences and those institutions with developing research capabilities in marine science. Partnerships are particularly encouraged with institutions that traditionally have served groups underrepresented in the sciences. The goals of such collaborative research projects are to enhance the research capabilities of both institutions, to promote significant interactions between institutions, and to

foster long term collaboration among investigators.

DATES: To permit timely consideration for awards in Fiscal Year 1997 and early Fiscal Year 1998, formal applications submitted in response to this notice should be received by 4:30 p.m., E.D.T., May 6, 1997.

ADDRESSES: Formal applications referencing Program Notice 97-09 should be forwarded to: U.S. Department of Energy, Office of Energy Research, Grants and Contracts Division, ER-64, 19901 Germantown Road, Germantown, MD 20874-1290, ATTN: Program Notice 97-09. This address also must be used when submitting applications by U.S. Postal Service Express Mail or any commercial mail delivery service, or when hand-carried by the applicant.

FOR FURTHER INFORMATION CONTACT: Dr. Anna Palmisano, Environmental Sciences Division, ER-74, Office of Health and Environmental Research, Office of Energy Research, U.S. Department of Energy, 19901 Germantown Road, Germantown, MD 20874-1290, telephone (301) 903-4183, e-mail anna.palmisano@oer.doe.gov, fax (301) 903-8519.

SUPPLEMENTARY INFORMATION: The primary research goal of the Biotechnological Investigations—Ocean Margin Program is to establish a more thorough understanding of the molecular to global scale links and feedback mechanisms between solar irradiance, marine microbial activity, primary productivity, carbon and nitrogen cycles and remotely-sensed ocean color data. This information is crucial to understanding the responses of marine biological systems to changes in atmospheric radiative budgets and global biogeochemical cycles.

Program Relationships

The Biotechnological Investigations—Ocean Margins Program is expected to build on past research results and accomplishments within the Ocean Margins Program (OMP) component of the Biological and Environmental Research (BER) program. The main objective of OMP was determining whether primary productivity on continental shelves is quantitatively significant in removing carbon dioxide (CO₂) from the atmosphere. Other objectives of the OMP were: (1) Quantifying the ecological and biogeochemical processes that affect the cycling, flux, and storage of carbon and other biogenic elements at the land/ocean interface; and (2) Defining ocean margin sources and sinks in global biogeochemical cycles.

Under the OMP, molecular biological techniques were developed, adapted, and applied to determine how biological processes are regulated and controlled by genetic limitations and environmental variables. Research emphasis was placed on molecular regulation of photosynthetic carbon reduction by phytoplankton; molecular diagnostic markers of bacterial growth, production, and nutrient limitations to growth, and; molecular techniques for elucidating metabolic pathways.

Biotechnological Investigations—Ocean Margins Program (BI-OMP)

BI-OMP is the second phase of the Ocean Margins Program (OMP); it places an increased emphasis on the application of modern molecular tools to marine microbes and their role in carbon and nitrogen cycling, and processes affecting global change. Photosynthetic rates in the ocean, and sequestration of atmospheric CO₂ by marine primary production greatly depend on the availability of fixed inorganic nitrogen. Hence, any increase in the net sequestration of CO₂ by oceanic photosynthetic organisms requires an addition of nitrogen or other limiting elements external to the ocean. Three major external sources of fixed inorganic nitrogen are cultural eutrophication of the coastal zone; atmospheric deposition of anthropogenic and naturally produced oxides of nitrogen; and nitrogen fixation from the atmosphere by microorganisms.

Research in Temperate and High Latitude coastal areas indicates that the availability and cycling of nitrogen is likely to be the major control on primary productivity and carbon cycling in these areas. In general, coastal areas are believed to be net heterotrophic on an annual basis. This means that they receive more organic substrate than is produced within the system by photosynthesis. Bacteria metabolize a large fraction of the organic pool, both dissolved and particulate, and it appears that most of the excess organic matter in coastal areas is degraded by microbial processes.

Moreover, it appears that denitrification (the reduction of fixed nitrogen to N₂) overwhelms nitrogen fixation by cyanobacteria in Northern Latitude waters and sediments. In these areas, there does not appear to be paucity of iron (Fe) to limit nitrogen fixation, but nitrogenase activity may be inhibited by the elevated concentrations of ammonia (NH₃) that occur in Arctic waters following phytoplankton blooms. Since little is known about the rates of nitrogen fixation, primary productivity,

and bacterial respiration in cold water areas, this notice calls for applications to help understand the molecular to global scale links and feedback mechanisms between solar irradiance, marine microbiology, coastal nitrogen and carbon cycles, primary productivity, and remotely-sensed ocean color data in the low-temperature waters off Alaska and the Pacific Northwest.

Although it is anticipated that most of the research performed will be laboratory-based, if field studies are necessary, they should be conducted in the coastal waters off the North Slope of Alaska and Pacific Northwest; or, in the estuarine and shelf waters of the Mississippi River and Gulf of Mexico; Savannah River and South Atlantic Bight; or Chesapeake Bay and Mid-Atlantic Bight. Applications that are solely concerned with the taxonomic characterization or distributions of bacteria, or the identification of new biochemicals or enzymes from marine organisms, are excluded from consideration within this notice.

Application of Molecular Tools to Microbes Mediating Carbon and Nitrogen Cycling

This announcement encourages applications that use molecular approaches to study marine microbial processes, in particular, carbon and nitrogen cycling. Insights can be gained from application of biotechnology to carbon sequestration and storage, nitrogen fixation and denitrification. Knowledge of the genes responsible for these processes, and most importantly, the expression of these genes in marine environments is needed. The mechanisms by which environmental factors regulate gene expression in ocean margin environments will help us to understand the natural controls on these processes.

The advent of modern molecular biology has provided powerful tools for examining genes and gene expression. Molecular methods are now being applied to research problems in marine biology, including the enzymes involved in carbon fixation (e.g., ribulose biphosphate carboxylase), nitrogen fixation (e.g., nitrogenase) and denitrification (e.g., nitrate reductase). Examples of enabling biotechnologies include *in situ* polymerase chain reaction (PCR) to amplify specific catabolic genes within bacterial cells, and fluorescent *in situ* hybridization (FISH) to elucidate genotypes in microbial communities. A fundamental knowledge of molecular regulatory mechanisms of photosynthesis and

nitrogen cycling in the oceans is needed.

Environmental Factors That Affect Linkages Between Carbon and Nitrogen Cycling

Environmental factors such as nutrient availability, temperature, irradiance, and biopolymer lability affect the coupling and decoupling of primary production, bacterial respiration, POM and DOM formation, and nitrogen metabolism in coastal areas. The impact of individual environmental factors, and synergistic effects of multiple environmental factors, on these processes is poorly understood. This announcement encourages applications that address the environmental controls on carbon and nitrogen cycles, and their coupling and decoupling. An understanding of these linkages is critical to monitoring and predicting potential changes due to physical, chemical or biological factor, and may ultimately contribute to the development of algorithms for remotely sensed ocean color data.

Collaborative Partnerships

Research applications shall include a mutually collaborative partnership between institutions that have a strong tradition of research in the marine sciences and those institutions with developing research capabilities in marine science. Participation of institutions with a high proportion of groups that are under represented in the sciences are particularly encouraged. Examples of collaborative activities include co-investigator status, periodic exchanges of researcher-in-residence between institutions, and joint supervision of research students. It is critical that both institutions have key roles in the collaboration. One institution should serve as the primary applicant with a subcontract to the collaborative institution. The applications should:

- Clearly state the nature of the collaborative research agreement between the institutions;
- Define respective research roles and responsibilities of scientists at each institution; describe how the partnership between the institutions will be effected (e.g., team meetings, shared students, etc.), and
- Provide separate institutional budgets.

In addition, the applicants will need to show how their proposed collaborative research addresses the goals stated in this notice and convey a commitment to developing research partnerships between respective institutions.

It is anticipated that up to \$4 million will be available for multiple grants awarded in FY 1997 and FY 1998, contingent upon availability of appropriated funds. Applications may request project support up to three years, with out-year support contingent on availability of funds, progress of the research, and programmatic needs. Annual budgets are expected to range from approximately \$50,000 to \$500,000. Applications should include detailed budgets for each year of support requested. The technical portion of the application should not exceed twenty-five (25) double-spaced pages. Lengthy application appendices are not encouraged.

Applications will be subjected to formal merit review (peer review) and will be evaluated against the following evaluation criteria which are listed in descending order of importance codified at 10 CFR 605.10(d):

1. Scientific and/or Technical Merit of the Project;
2. Appropriateness of the Proposed Method or Approach;
3. Competency of Applicant's personnel and Adequacy of Proposed Resources;
4. Reasonableness and Appropriateness of the Proposed Budget.

The evaluation will include program policy factors such as the relevance of the proposed research to the terms of the announcement and an agency's programmatic needs. Note, external peer reviewers are selected with regard to both their scientific expertise and the absence of conflict-of-interest issues. Non-federal reviewers will often be used, and submission of an application constitutes agreement that this is acceptable to the investigator(s) and the submitting institution.

To provide a consistent format for the submission, review and solicitation of grant applications submitted under this notice, the preparation and submission of grant applications must follow the guidelines given in the Application Guide for the Office of Energy Research Financial Assistance Program 10 CFR Part 605. Access to ER's Financial Assistance Application Guide is possible via the World Wide Web at: <http://www.er.doe.gov/production/grants/grants.html>.

The Catalog of Federal Domestic Assistance Number for this program is 81.049, and the solicitation control number is ERFAP 10 CFR Part 605.

Issued in Washington, DC, on February 13, 1997.

John Rodney Clark,
Associate Director for Resource Management,
Office of Energy Research.

[FR Doc. 97-4429 Filed 2-21-97; 8:45 am]

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Federal Energy Regulatory Commission

[Docket No. CP97-243-000]

ANR Pipeline Company; Notice of Application

February 18, 1997.

Take notice that on February 12, 1997, ANR Pipeline Company (ANR), 500 Renaissance Center, Detroit, Michigan 48243, filed in Docket No. CP97-243-000 an application pursuant to Section 7(c) of the Natural Gas Act for authorization to utilize temporary work spaces associated with a pipeline replacement project located in Berrien County, Michigan, all as more fully set forth in the application which is on file with the Commission and open to public inspection.

ANR proposes to replace 1.12 mile of 22-inch pipeline with heavier wall pipe in order to continue to meet the safety requirements of the U.S. Department of Transportation (DOT) regulations. ANR states that the required replacement has been triggered by an increase in population density in Berrien County, Michigan. ANR states that in this area, ANR's main line consists of three parallel pipelines: a 22-inch O.D. mainline; a 30-inch O.D. loop line; and a 42-inch O.D. loop line. ANR maintains that both loop lines are currently in compliance with DOT regulations.

ANR states that the pipeline replacement project consists of removing and replacing in the same trench 5,905 feet of the 22-inch O.D. main line. ANR states that the replacement project will not include replacement of the pipeline crossing under the St. Joseph River and 61 and 81 feet on the west and east sides of the river, respectively. ANR states that the replacement will begin at Mile Post 927.45 and proceed northeast for 5,361 feet toward the southwest bank of the St. Joseph River where it will connect with the existing 22-inch O.D. main line. ANR further states that the replacement will continue on the northeast side of the St. Joseph River for an additional 544 feet where it will connect with the existing 22-inch O.D. main line. ANR maintains that when the pipeline replacement has been completed, the entire length of the pipeline, including the crossing under

the St. Joseph River, will be hydrostatically tested to DOT standards.

ANR states that the pipeline replacement will be made within ANR's existing permanent right-of-way and will be placed in the same trench as the pipe being removed. ANR states that the pipeline replacement will not alter the capacity of ANR's main line and no compression or above ground facilities are associated with the project. It is stated that during the period that the pipeline replacement is taking place, service will continue to be provided to customers through the adjacent 30-inch and 42-inch loop lines.

ANR states that in order to make the replacement it will have to utilize work areas which may not have been included in the scope of the original authorization, 5 FPC 953, to construct the facilities. Therefore, ANR requests the temporary use of work space in order to make the replacement. ANR states that the construction will be done under Section 2.55(b) of the Commission's Regulations and has an estimated cost of \$1,471,140.

Any person desiring to be heard or to make any protest with reference to said application should on or before March 11, 1997, file with the Federal Energy Regulatory Commission, Washington, D.C. 20426, a motion to intervene or a protest in accordance with the requirements of the Commission's Rules of Practice and Procedure (18 CFR 385.214 or 385.211) and the Regulations under the Natural Gas Act (18 CFR 157.10). All protests filed with the Commission will be considered by it in determining the appropriate action to be taken but will not serve to make the protestants parties to the proceeding. Any person wishing to become a party to a proceeding or to participate as a party in any hearing therein must file a motion to intervene in accordance with the Commission's Rules.

Take further notice that, pursuant to the authority contained in and subject to jurisdiction conferred upon the Federal Energy Regulatory Commission by Sections 7 and 15 of the Natural Gas Act and the Commission's Rules of Practice and procedure, a hearing will be held without further notice before the Commission or its designee on this application if no motion to intervene is filed within the time required herein, if the Commission on its own review of the matter finds that a grant of the certificate is required by the public convenience and necessity. If a motion for leave to intervene is timely filed, or if the Commission on its own motion believes that a formal hearing is required, further notice of such hearing will be duly given.