

DEPARTMENT OF ENERGY**Office of Fossil Energy**

[Docket No. FE C&E 97-03—Certification Notice—156]

Dighton Power Associates Limited Partnership Notice of Filing of Coal Capability Powerplant and Industrial Fuel Use Act

AGENCY: Office of Fossil Energy, Department of Energy.

ACTION: Notice of Filing.

SUMMARY: On October 10, 1997, Dighton Power Associates Limited Partnership submitted a coal capability self-certification pursuant to section 201 of the Powerplant and Industrial Fuel Use Act of 1978, as amended.

ADDRESSES: Copies of self-certification filings are available for public inspection, upon request, in the Office of Coal & Power Im/Ex, Fossil Energy, Room 3F-056, FE-27, Forrestal Building, 1000 Independence Avenue, S.W., Washington, D.C. 20585.

FOR FURTHER INFORMATION CONTACT: Ellen Russell at (202) 586-9624.

SUPPLEMENTARY INFORMATION: Title II of the Powerplant and Industrial Fuel Use Act of 1978 (FUA), as amended (42 U.S.C. 8301 et seq.), provides that no new baseload electric powerplant may be constructed or operated without the capability to use coal or another alternate fuel as a primary energy source. In order to meet the requirement of coal capability, the owner or operator of such facilities proposing to use natural gas or petroleum as its primary energy source shall certify, pursuant to FUA section 201(d), to the Secretary of Energy prior to construction, or prior to operation as a base load powerplant, that such powerplant has the capability to use coal or another alternate fuel. Such certification establishes compliance with section 201(a) as of the date filed with the Department of Energy. The Secretary is required to publish a notice in the **Federal Register** that a certification has been filed. The following owner/operator of the proposed new baseload powerplant has filed a self-certification in accordance with section 201(d).

Owner: Dighton Power Associates Limited Partnership.

Operator: Dighton Power Associates Limited Partnership.

Location: Dighton, MA.

Plant Configuration: combined-cycle.

Capacity: 168 megawatts.

Fuel: Natural gas.

Purchasing Entities: Output will be sold to the regional electric power grid as a merchant plant.

In-Service Date: April 1999.

Issued in Washington, D.C., October 24, 1997.

Anthony J. Como,

Director, Electric Power Regulation, Office of Coal & Power Im/Ex, Office of Coal & Power systems, Office of Fossil Energy.

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BILLING CODE 6450-01-P

DEPARTMENT OF ENERGY**Office of Energy Research**

Continuation of Solicitation for the Office of Energy Research Financial Assistance Program Notice 98-01

AGENCY: U.S. Department of Energy.

ACTION: Annual notice of continuation of availability of grants and cooperative agreements.

SUMMARY: The Office of Energy Research (ER) of the Department of Energy hereby announces its continuing interest in receiving applications for grants and cooperative agreements supporting work in the following programs: Basic Energy Sciences, High Energy Physics, Nuclear Physics, Computational and Technology Research, Fusion Energy Sciences, Biological and Environmental Research and Energy Research Analyses. On September 3, 1992, (57 FR 40582), DOE published in the **Federal Register** the Office of Energy Research Financial Assistance Program, 10 CFR Part 605, Final Rule, which contained a solicitation for this program. Information about submission of applications, eligibility, limitations, evaluation and selection processes and other policies and procedures are specified in 10 CFR Part 605.

DATES: Applications may be submitted at any time in response to this Notice of Availability. This Notice is published annually and remains in effect until it is superseded by another issuance by the Office of Energy Research.

ADDRESSES: Applications must be sent to: Director, Grants and Contracts Division, Office of Energy Research, ER-64, U.S. Department of Energy, 19901 Germantown Road, Germantown, MD 20874-1290. When preparing applications, applicants should use the Office of Energy Research Financial Assistance Program Application Guide and Forms located on the World Wide Web at: <http://www.er.doe.gov/production/grants/grants.html>. Applicants without Internet access may call 301-903-5544 for information.

SUPPLEMENTARY INFORMATION: It is anticipated that approximately \$400 million will be available for grant and

cooperative agreement awards in FY 1998. The DOE is under no obligation to pay for any costs associated with the preparation or submission of an application. DOE reserves the right to fund, in whole or in part, any, all, or none of the applications submitted in response to this Notice.

In addition, the following program descriptions are offered to provide more in-depth information on scientific and technical areas of interest to the Office of Energy Research.

1. Basic Energy Sciences

The Basic Energy Sciences (BES) program supports fundamental research in the natural sciences and engineering leading to new and improved energy technologies and to understanding and mitigating the environmental impacts of energy technologies. The science divisions and their objectives are as follows.

(a) Materials Sciences

The objective of this program is to increase the understanding of phenomena and properties important to materials behavior that will contribute to meeting the needs of present and future energy technologies. It is comprised of the subfields metallurgy, ceramics, solid state physics, materials chemistry, and related disciplines where the emphasis is on the science of materials. *Program Contact:* (301) 903-3427.

(b) Chemical Sciences

The objective of this program is to expand, through support of basic research, knowledge of various areas of chemistry, chemical engineering and atomic molecular and optical physics with a goal of contributing to new or improved processes for developing and using domestic energy resources in an efficient and environmentally sound manner. Disciplinary areas where research is supported include atomic molecular and optical physics; physical, inorganic and organic chemistry; chemical physics; photochemistry; radiation chemistry; analytical chemistry; separations science; actinide chemistry; and chemical engineering sciences.

Program Contact: (301) 903-5804.

(c) Engineering Research

This program's objectives are: (1) to extend the body of knowledge underlying current engineering practice in order to open new ways for enhancing energy savings and production, prolonging useful equipment life, and reducing costs

while maintaining output performance, and environmental quality; and (2) to broaden the technical and conceptual base for solving future engineering problems in the energy technologies. Long-term research topics of current interest include: foundations of bioprocessing of fuels and energy related wastes, fracture mechanics, experimental and theoretical studies of multi phase flows, intelligent machines, and diagnostics and control for plasma processing of materials.

Program Contact: (301) 903-5822.

(d) Geosciences

The goal of this program is to develop a quantitative and predictive understanding of the energy-related aspects of processes in the earth. The emphasis is on the upper levels of the earth's crust and the focus is on geophysics, geomechanics and geochemistry of rock-fluid systems and interactions emphasizing processes taking place at the atomic and molecular scale. Specific topical areas receiving emphasis include: high resolution geophysical imaging; rock physics, fundamental properties and interactions of rocks, minerals, and fluids; and sedimentary basin systems. The resulting improved understanding and knowledge base are needed to assist efforts in the utilization of the Nation's energy resources in an environmentally acceptable fashion.

Program Contact: (301) 903-5822.

(e) Energy Biosciences

The primary objective of this program is to generate the fundamental understanding of biological mechanisms in the areas of botanical and microbiological sciences that will support biotechnological developments related to DOE's mission. The research serves as the basic information foundation with respect to an environmentally responsible renewable resource production for fuels and chemicals, microbial conversions of renewable materials and biological systems for the conservation of energy. This office has special requirements for the submission of preapplications, when to submit, and the length of the applications. Applicants are encouraged to contact the office regarding these requirements.

Program Contact: (301) 903-2873.

2. High Energy and Nuclear Physics

This program supports about 90% of the U.S. efforts in high energy and nuclear physics. The objectives of these programs are indicated below.

(a) High Energy Physics

The primary objectives of this program are to understand the ultimate structure of matter in terms of the properties and interrelations of its basic constituents, and to understand the nature and relationships among the fundamental forces of nature. The research falls into three broad categories: experimental research, theoretical research, and technology R&D in support of the high energy physics program.

Program Contact: (301) 903-3624.

(b) Nuclear Physics (Including Nuclear Data Program)

The primary objectives of this program are an understanding of the interactions and structures of atomic nuclei and nuclear matter at the most elementary level possible, and an understanding of the fundamental forces of nature as manifested in nuclear matter.

Program Contact: (301) 903-3613.

3. Computational and Technology Research

The goal of this program is to conduct an integrated program in applied mathematical sciences, high performance computing and communications, information infrastructure, advanced energy projects research, and technology research, to address complex problems. Research in forefront and diverse programs is becoming more multi disciplinary and requires new approaches to the solution of these complex problems. The program exploits the capabilities and research skills at universities, national laboratories, and industrial research laboratories. The program provides technical, analytical, and management direction for development, implementation, and evaluation of research programs that include activities from fundamental research to technology development. The goal of the program is accomplished through the effort of the following two divisions.

(a) Mathematical, Information, and Computational Sciences

This is a diverse research program in applied mathematical sciences, high performance computing, communications and information infrastructure technologies that spans the spectrum of activities from strategic fundamental research to technology development and demonstration. The diverse activities supported by this program are integrated to support two major strategic directions that support the underlying mathematical concepts and information technology needs of all

Department of Energy (DOE) mission areas. These two strategic directions are:

- National Collaboratories—developing a set of tools and capabilities to permit scientists and engineers to access facilities and collaborate on experiments system-wide, as easily as if they were in the same building.
- Advanced Computational Testing and Simulation—developing an integrated set of algorithms, software frameworks, and network infrastructures to enable simulation to complement experimentation when actual experiments would be dangerous, expensive, or infeasible.

Program Contact: (301)-903-5800.

(b) Advanced Energy Projects/Laboratory Technology Research

Advanced Energy Projects

This activity funds research to establish the feasibility of novel, energy-related concepts. These concepts are usually derived from recent advances in basic research, but require additional research to establish their feasibility. A common theme for each concept is the initial linkage of new, or previously neglected, research results to a practical energy payoff for the Nation.

Laboratory Technology Research

This activity conducts technology research projects to reduce technical risk associated with a technology or process development. The program couples basic research advances at ER national laboratories into the advanced energy technology arena through leveraged collaborations with industry. The program is focused on critical technology research areas, i.e., tailored materials, intelligent manufacturing, and sustainable environments, to contribute technological innovations that will stimulate national economic growth, and to increase the return on the government investment in basic research.

Program Contact: (301)-903-5995.

4. Fusion Energy Sciences

The mission of the Fusion Energy Sciences program is to advance plasma science, fusion science, and fusion technology—the knowledge base needed for an economically and environmentally attractive fusion energy source. This program is supported by the Office of Fusion Energy Sciences (OFES), which fosters both applied and basic research and emphasizes international collaboration to accomplish this mission.

(a) Science Division

This Division seeks to develop the physics knowledge base needed to

advance the Fusion Energy Sciences program toward its goals. Basic and applied research is carried out in the following areas: (1) basic plasma science research directed at furthering the understanding of fundamental processes in plasmas; (2) improving the theoretical understanding of fusion plasmas necessary for interpreting results from present experiments and the planning and design of future confinement devices; (3) obtaining the critical data on plasma properties, atomic physics and new diagnostic techniques for support of confinement experiments; (4) supporting exploratory research into concepts that are alternatives to the tokamak; and (5) carrying out research on issues that support the development of Inertial Fusion Energy, for which target development is carried out by the Department of Energy's Defense Programs.

Research into basic physics issues associated with medium to large scale confinement devices is essential to studying conditions relevant to the production of fusion energy. Experiments on these scale of devices are used to explore the limits of specific confinement concepts, as well as study associated physical phenomena. Specific areas of interest include: (1) the production of increased plasma densities and temperatures; (2) the understanding of the physical laws governing plasma energy of high plasma pressure; (4) the investigation of plasma interaction with radio frequency waves; and (5) the study and control of particle transport and exhaust in plasmas.

Program Contact: (301) 903-4095.

(b) Technology Division

This Division seeks to develop the technology knowledge base needed to advance the Fusion Energy Sciences program toward its goals. The Division's science-oriented goal is to provide the technologies that are required to successfully design, build, and operate near-term experiments aimed at producing, understanding, and optimizing the fusion energy process. The Division's energy-oriented goal is to develop the technologies that will be needed in the long-term for an economically and environmentally attractive fusion energy source. These goals are pursued through multi-institutional domestic programs and international collaboration partnerships that are centered around U.S. participation in the Engineering Design Activities for a long-pulse burning plasma experiment—the International Thermonuclear Experimental Reactor (ITER).

Program Contact: (301) 903-5378.

5. Biological and Environmental Research Program

The goals of the Biological and Environmental Research Program are as follows: (1) to provide, through basic and applied research, the scientific information required to identify, understand and anticipate the long-term health and environmental consequences of energy use and development; and (2) to utilize the Department's unique resources to solve major scientific problems in medicine, biology and the environment. Goals of the program are accomplished through the efforts of the following research program elements:

(a) Health Effects and Life Sciences Research

This is a broad program of basic and applied biological research. The objectives are: (1) to create and apply new technologies and resources in mapping, sequencing, and information management for characterizing the molecular nature of the human genome; (2) to develop and support DOE national user facilities for use in fundamental structural biology; (3) to use model organisms to understand human genome organization, human gene function and control, and the functional relationships between human genes and proteins; (4) to characterize and exploit the genomes and diversity of microbes with potential relevance for energy, bioremediation, or global climate; (5) to understand and characterize the risks to human health from exposures to low levels of radiation and chemicals; (6) to develop novel technologies for high throughput determination of protein structure; and (7) to anticipate and address ethical, legal, and social implications arising from genome research.

Program Contact: (301) 903-5468.

(b) Medical Applications and Measurement Science

The objectives of this program comprise the following areas: (1) to develop technologies for the beneficial applications of radiation and in vivo radiotracer detection in the study, diagnosis and treatment of human diseases and disorders; (2) to develop new instrumentation for biological and medical research; and (3) to develop new concepts and techniques for detecting and measuring the hazardous agents of biochemical, physical and environmental consequences related to energy production.

Program Contact: (301) 903-3213.

(c) Environmental Remediation

The objectives of the program relate to environmental processes affected by energy production and use. The

program develops information on the physical, chemical and biological processes that cycle and transport energy-related material, particularly contaminants that arose during nuclear weapons production, through the Earth's surface and subsurface. Emphasis is put on the development of a strong basis for understanding and implementing the appropriate and efficient use of bioremediation, particularly at the Department's sites.

Program Contact: (301) 903-3281.

(d) Environmental Processes

This program addresses global environmental change from increases in atmospheric carbon dioxide and other greenhouse gases. The scope of the global change program encompasses the carbon cycle, climate modeling and diagnostics, atmospheric sciences and meteorology, ecosystem responses, and impacts on resources. The role of clouds and radiation in climate prediction is a particular emphasis.

Program Contact: (301) 903-3281.

6. Energy Research Analyses

This program supports energy research analyses of the Department's basic and applied research activities. Specific objectives include assessments to identify any duplication or gaps in scientific research activities, and impartial and independent evaluations of scientific and technical research efforts.

Program Contact: (202) 586-7021

Issued in Washington, D.C., on October 15, 1997.

John Rodney Clark,

Associate Director for Resource Management, Office of Energy Research.

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DEPARTMENT OF ENERGY

Federal Energy Regulatory Commission

[Docket No. OR98-1-000]

ARCO Products Company, a Division of Atlantic Richfield Company, Texaco Refining and Marketing Inc. and Mobil Oil Corporation, Complainants v. SFPP, L.P., Respondent; Notice of Complaint

October 27, 1997.

Take notice that on October 22, 1997, pursuant to Rule 206 of the Rules of Practice and Procedure of the Commission, 18 CFR 385.206, Sections 9, 13, and 15 of the Interstate Commerce Act, (ICA) 49 U.S.C. app. §§ 9, 13, and 15 (1994), and Section 1803 of the