

improve teaching and achievement at the K-12 and postsecondary education levels. The Commission must issue a final report to the President and the Congress, not later than 12 months after the first meeting of the commission, which occurred November 16-17, 1999. The final report will contain a detailed statement of the Commission's findings and conclusions, as well as recommendations.

The purpose of the February 2-3 hearing and meeting is to begin the Commission's investigation and approve a detailed mission and plan. On both February 2 and 3, the Commission will hear from government and public witnesses on the potential for web-based and other technology-mediated content to transform and improve teaching and learning at the K-12 and postsecondary education levels, as well as the regulatory and institutional barriers to this transformation. On February 3, the Commission will also meet to approve its mission and plan for the year.

The hearing and meeting are open to the general public. Records are kept of all Commission proceeding and are available for public inspection at the office of the Web-Based Education Commission, Room 8091, 1990 K Street, NW, Washington, DC 20006-8533 from the hours of 9 a.m. to 5:30 p.m. The meeting site is accessible to individuals with disabilities. An individual with a disability who will need an auxiliary aid or service to participate in the meeting (e.g., interpreting services, assisted listening device or materials in an alternate format) should notify the contact person listed in this notice at least two weeks before the scheduled meeting date. Although the Department will attempt to meet a request received after that date, the requested auxiliary aid or service may not be available because of insufficient time to arrange it.

Dated: January 13, 2000.

**A. Lee Fritschler,**

*Assistant Secretary, Office of Postsecondary Education.*

[FR Doc. 00-1455 Filed 1-20-00; 8:45 am]

BILLING CODE 4000-01-M

## DEPARTMENT OF ENERGY

[Docket No. EA-171-A]

### Application to Export Electric Energy; British Columbia Power Exchange Corporation

**AGENCY:** Office of Fossil Energy, DOE.

**ACTION:** Notice of Application.

**SUMMARY:** British Columbia Power Exchange Corporation (Powerex) has applied for renewal of its authority to transmit electric energy from the United States to Canada pursuant to section 202(e) of the Federal Power Act.

**DATES:** Comments, protests or requests to intervene must be submitted on or before February 22, 2000.

**ADDRESSES:** Comments, protests or requests to intervene should be addressed as follows: Office of Coal & Power Im/Ex (FE-27), Office of Fossil Energy, U.S. Department of Energy, 1000 Independence Avenue, SW, Washington, DC 20585-0350 (FAX 202-287-5736).

**FOR FURTHER INFORMATION CONTACT:** Rosalind Carter (Program Office) 202-586-7983 or Michael Skinker (Program Attorney) 202-586-2793.

**SUPPLEMENTARY INFORMATION:** On February 25, 1998, the Office of Fossil Energy (FE) of the Department of Energy (DOE) issued Order No. EA-171 authorizing Powerex to transmit electric energy from the United States to Canada as a power marketer using the international electric transmission facilities owned and operated by Basin Electric Power Cooperative, Bonneville Power Administration, Citizens Utilities, Detroit Edison, Eastern Maine Electric Cooperative, Joint Owners of the Highgate Project, Inc., Maine Electric Power Company, Maine Public Service Company, Minnesota Power and Light Co., Inc., Minnkota Power, New York Power Authority, Niagara Mohawk Power Corp., Northern States Power, and Vermont Electric Transmission Company. That two-year authorization will expire on February 25, 2000.

On January 11, 2000, Powerex filed an application with FE for renewal of the export authority contained in Order No. EA-171. Powerex has requested that authorization be issued for a five year term and that the international transmission facilities of Long Sault, Inc. be added to the list of authorized export points.

### Procedural Matters

Any person desiring to become a party to this proceeding or to be heard by filing comments or protests to this application should file a petition to intervene, comment or protest at the address provided above in accordance with §§ 385.211 or 385.214 of the FERC's Rules of Practice and Procedures (18 CFR 385.211, 385.214). Fifteen copies of each petition and protest should be filed with the DOE on or before the date listed above.

Comments on the Powerex request to export to Canada should be clearly

marked with Docket EA-171-A. Additional copies are to be filed directly with Mr. Douglas Little, Vice President, Trade Policy & Development, British Columbia Power Exchange Corporation, 666 Burrard Street, Suite 1400, Vancouver, British Columbia, Canada V6C 2X8, and Paul W. Fox, Esq., Bracewell & Patterson, L.L.P., 111 Congress Avenue, Suite 2300, Austin, Texas 78701 and Tracey L. Bradley, Energy Regulatory Consultant, Bracewell & Patterson, L.L.P., 2000 K Street, N.W., Suite 500, Washington, DC 20006.

DOE notes that the circumstances described in this application are virtually identical to those for which export authority had previously been granted in FE Order No. EA-171. Consequently, DOE believes that it has adequately satisfied its responsibilities under the National Environmental Policy Act of 1969 through the documentation of a categorical exclusion in the FE Docket EA-171 proceeding.

Copies of this application will be made available, upon request, for public inspection and copying at the address provided above or by accessing the Fossil Energy Home Page at <http://www.fe.doe.gov>. Upon reaching the Fossil Energy Home page, select "Regulatory Programs," then "Electricity Regulation," and then "Pending Proceedings" from the options menus.

Issued in Washington, D.C., on January 14, 2000.

**Anthony J. Como,**

*Deputy Director, Electric Power Regulation, Office of Coal & Power Im/Ex, Office of Coal & Power Systems, Office of Fossil Energy.*

[FR Doc. 00-1497 Filed 1-20-00; 8:45 am]

BILLING CODE 6450-01-P

## DEPARTMENT OF ENERGY

### Idaho High-level Waste and Facilities Disposition Draft Environment Impact Statement

**AGENCY:** U.S. Department of Energy.

**ACTION:** Notice of availability.

**SUMMARY:** The Department of Energy (DOE) announces the availability of the Idaho High-level Waste and Facilities Disposition Draft Environmental Impact Statement (EIS) for public review and comment. This Draft EIS has been prepared in accordance with the requirements of the National Environment Policy Act of 1969 as amended (NEPA) (42 U.S.C. 4321 *et seq.*); Council on Environmental Quality regulations implementing NEPA, 40

CFR Parts 1500–1508; and DOE NEPA Implementing Procedures, 10 CFR Part 1021. The State of Idaho is a Cooperating Agency in the preparation of this Draft EIS and will continue to be involved in the review and preparation of the Final EIS.

This Draft EIS evaluates five waste processing alternatives and six facilities disposition alternatives for high-level radioactive (HLW) waste and liquid mixed transuranic waste stored at DOE's Idaho National Engineering and Environmental Laboratory (INEEL). Currently, there are approximately 4,200 cubic meters of HLW stored in bins as a dry granular calcine and approximately 1.4 million gallons of liquid mixed transuranic waste stored in underground tanks.

Neither DOE nor the State of Idaho has identified a preferred alternative. After considering information in this Draft EIS and other relevant information, DOE and the State will enter into discussions concerning the preferred alternative. If DOE and the State reached agreement, the Final EIS will identify the agreed-upon preferred alternative; if not, the Final EIS will set forth both the State's and DOE's respective choices for the preferred alternative.

The public is invited to comment on the Draft EIS during a 60-day public comment period, which starts on the date of this Notice and ends on March 20, 2000. All comments received during the public comment period will be

considered in preparing the Final EIS. Late comments will be considered to the extent practicable.

**ADDRESSES:** Requests for information about this Draft EIS should be directed to: Thomas L. Wichmann, NEPA Document Manager, U.S. Department of Energy, Idaho Operations Office, 850 Energy Drive, MS 1108, Idaho Falls, ID 83401–1563, (208) 526–0535.

Copies of the document can be requested by telephone at 1–888–918–5100.

*Written comments* on the Draft EIS can be mailed to Thomas L. Wichmann, NEPA Document Manager, U.S. Department of Energy, Idaho Operations Office, 850 Energy Drive, MS 1108, Idaho Falls, ID 83401–1563, Attention: Public Comments, Idaho, HLW & FD EIS, or submitted by fax to: 208–526–1184, or submitted electronically to: <http://www.jason.com/hlwfdeis>.

*Oral comments* on the Draft EIS will be accepted only during the public hearings scheduled for the dates and locations provided in the **DATES** section of this Notice.

For information on the DOE National Environmental Policy Act process, contact: Carol M. Borgstrom, Director, Office of NEPA Policy and Assistance (EH–42), U.S. Department of Energy, 1000 Independence Avenue, SW, Washington, DC 20585, (202) 586–4600 or leave a message at 1–800–472–2756.

Copies of the Draft EIS and supporting technical reports are available for review at the addresses listed in the

“Availability of the Draft EIS” section of this Notice.

**DATES:** The public is invited to submit written and/or oral comments on the Draft EIS. Comments may also be submitted electronically to <http://www.jason.com/hlwfdeis>. Example topics on which DOE welcomes comments include: the technical adequacy of the document; what additional alternatives/options should be analyzed; which alternatives/options DOE should select upon completion of the document; and what criteria DOE should use in making these selections. DOE's responses to all comments received during the public comment period will be presented in the Final EIS. The comment period on this Draft EIS begins on the date of this Notice and ends on March 20, 2000. Comments postmarked after that date will be considered to the extent practicable. DOE expects to issue the Final EIS in mid-2000.

DOE will hold a series of 7 public hearings according to the schedule below. The session format will provide for collection of written and oral comments and will enable the public to discuss issues and concerns with DOE managers. Participants who wish to present oral comments at the hearings are asked to register in advance by calling the toll-free number: 1–888–918–5100. Requests to speak that have not been submitted prior to the hearings will be handled in the order in which they are received during the hearings.

#### SCHEDULE OF PUBLIC HEARINGS

Cities	Dates	Meeting times	Meeting locations
Idaho Falls, ID .....	February 7, 2000 .....	7:00 pm .....	Shilo Inn.
Pocatello, ID .....	February 8, 2000 .....	6:00 pm .....	Idaho State University Student Union.
Jackson, WY .....	February 9, 2000 .....	6:00 pm .....	Snow King Lodge.
Twin Falls, ID .....	February 15, 2000 .....	6:00 pm .....	College of Southern ID Taylor Building.
Boise, ID .....	February 17, 2000 .....	6:00 pm .....	The Grove Hotel.
Portland, OR .....	February 22, 2000 .....	6:00 pm .....	Doubletree Lloyd Center.
Pasco, WA .....	February 24, 2000 .....	6:00 pm .....	Doubletree Pasco Hotel.

Open house will be held one hour prior to meeting times.

#### SUPPLEMENTARY INFORMATION:

##### Background

From 1952 to 1991, DOE and its predecessor agencies reprocessed spent nuclear reactor fuel at the Idaho Chemical Processing Plant, located on the Snake River Plain in the desert of Southeast Idaho. This facility, now known as the Idaho Nuclear Technology Engineering Center (INTEC), is part of the INEEL nuclear research complex that has served the nation through both peaceful and defense-related missions.

Reprocessing operations at INTEC produced mixed HLW (*i.e.*, HLW containing hazardous characteristics or components that are regulated under the Resource Conservation and Recovery Act) HLW from the first extraction cycle of the operation. Subsequent treatment processes and decontamination activities generated liquid mixed transuranic waste. This waste is much less radioactive than the mixed HLW.

All of the liquid mixed HLW was converted to calcine (a dry granular substance) over several years. This conversion was completed in 1998.

Stored in large, robust bin sets, the mixed HLW calcine is a more stable waste form that poses less environmental risk than liquid radioactive waste stored in underground tanks. However, the mixed HLW calcine does not meet planned HLW disposal repository waste acceptance criteria, and further treatment would be necessary to convert the mixed HLW calcine to a form that would be acceptable for disposal in such a repository. At present, approximately 4,200 cubic meters of mixed HLW calcine is stored in the bin sets.

Since spent nuclear fuel reprocessing was discontinued in 1991, DOE has continued to accumulate liquid mixed transuranic waste in underground tanks from decontamination and other ongoing operations. At present, approximately 1.4 million gallons of liquid mixed transuranic waste is stored in eleven underground tanks.

In a 1995 Settlement Agreement, DOE and the State of Idaho agreed that the underground tanks would be emptied down to the residual heels by 2012, and that by a target date of 2035, all of the mixed HWL would be treated and made ready for shipment out of Idaho. DOE intends to continue to manage these wastes according to regulatory requirements, in a manner that helps to ensure the protection of human health and the environment.

To meet its commitments and objectives, DOE needs to decide:

- How to treat INTEC mixed HLW so that it can be transported out of Idaho to a storage facility or repository.
- How to treat and where to dispose of other radioactive wastes that are associated with the HLW management program at INTEC.
- How to close associated HWL-related facilities.

On September 19, 1997, DOE issued a Notice of Intent (62 FR 49209) to prepare the *Idaho High-level Waste and Facilities Disposition Environmental Impact Statement*. The public scoping period announced in the Notice of Intent extended from September 19, 1997, to November 24, 1997. During this period, DOE held public scoping workshops in Idaho Falls and Boise, Idaho. DOE also sponsored open houses, set up and staffed booths and displays at shopping malls throughout southern Idaho, made presentations to schools and civic groups, and provided individual briefings to government and Tribal officials, local interest groups, site employees, and the INEEL Citizens Advisory Board. DOE received more than 900 comments during the public scoping period and used these comments to refine the proposed action and the alternatives. The proposed action and alternatives analyzed in this Draft EIS are described in the following two sections.

### Proposed Action

DOE has identified the following proposed actions to support the needed decisions.

- Develop appropriate technologies and construct facilities necessary to manage INTEC mixed HLW and mixed liquid transuranic waste.

- Treat the mixed HLW calcine so that it will be suitable for disposal in a repository.
- Treat and dispose of the sodium-bearing, liquid mixed transuranic waste.
- Provide for the disposition of the INTEC HLW management facilities when their missions are completed.

### Alternatives Analyzed

DOE analyzed the potential impacts of implementing five waste processing and six facilities disposition alternatives over the period 2000 through 2095. Each alternative has a specific time line for implementation and completion. For residual contamination or waste disposal, DOE analyzed potential impacts over 10,000 years.

*Waste Processing Alternatives* address HLW treatment technologies, pretreatment requirements for the liquid mixed transuranic waste, and storage and disposal options for treated wastes. These alternatives are listed and briefly described below.

- *No Action Alternative*—This alternative serves as a basis for comparing other alternatives. DOE would not continue to calcine liquid mixed transuranic waste, but would continue to reduce the volume of this waste via evaporation until all of the available underground tanks are full. The liquid mixed transuranic waste would remain in the tanks indefinitely, and the mixed HLW calcine would remain in the bins indefinitely. Maintenance to protect workers and the environment would continue, but there would be no major upgrades.

- *Continued Current Operations Alternative*—The calcining facility would be upgraded and would continue processing the liquid mixed transuranic wastes to empty the underground tanks to material left in the tanks after initial reprocessing. Residual material in the tanks would be treated; transuranic waste would be shipped to the Waste Isolation Pilot Plant for disposal, and low-level waste would be grouted for disposal at INEEL. The mixed HLW calcine would remain in the bin sets indefinitely.

- *Separations Alternative*—Three options were analyzed for chemically separating the waste into fractions that would be disposed of according to their waste classification. These options are as follows.

The *Full Separations Option* would retrieve and dissolve the mixed HLW calcine from the bin sets and would chemically separate the most highly radioactive and long-lived radionuclides from both mixed HLW calcine and the liquid mixed transuranic waste. The most highly radioactive wastes would

be prepared for disposal in a HLW repository. The process stream remaining, after separating out the mixed HLW fraction, would be managed as mixed low-level waste, suitable for disposal in a near-surface landfill at INEEL or an offsite disposal facility.

The *Planning Basis Option* reflects previously announced DOE decisions and agreements with the State of Idaho regarding the management of mixed HLW and liquid mixed transuranic waste. This option is similar to the Full Separations Option except that, prior to separation, the liquid mixed transuranic waste would be calcined and stored in the bin sets along with the mixed HLW. Under this option, the low-level waste fraction would be grouted for disposal offsite.

The *Transuranic Separations Option* would retrieve and dissolve the mixed HLW calcine and chemically treat the dissolved calcine and the liquid mixed transuranic waste, including the residual material remaining in the tanks. This treatment process would result in waste streams that could be managed as transuranic waste and as low-level waste. A HLW fraction would not result. The transuranic waste would be packaged and shipped to the Waste Isolation Plant for disposal, and the low-level waste would be grouted for disposal at INEEL or at an offsite disposal facility.

- *Non-Separations Alternative*—The mixed HLW and liquid mixed transuranic waste would be processed into immobilized forms. Transuranic waste generated as a result of these processes would be packaged and shipped to the Waste Isolation Pilot Plant for disposal, and low-level wastes would be grouted for disposal in a near-surface landfill at INEEL or offsite. These treatment options are as follows.

The *Hot Isostatic Waste Option* would calcine the liquid mixed transuranic waste and add the calcine to the mixed HLW calcine in the bin sets. All calcine would then be retrieved and converted to an impervious, glass-ceramic waste form. Implementing this option would require a determination from the U.S. Environmental Protection Agency that the final form of the HLW would be suitable for disposal in a HLW repository.

The *Direct Cement Waste Option* is similar to the Hot Isostatic Waste Option except that all of the calcine would be converted to a cement-like solid. Implementing this option would require a determination from the U.S. Environmental Protection Agency that the final form of the HLW would be suitable for disposal in a HLW repository.

The Early Vitrification Option would directly process both the mixed HLW calcine and the liquid mixed transuranic waste into a glass-like solid. The resulting HLW glass would be suitable for disposal in a repository; the mixed transuranic waste would be shipped to the Waste Isolation Pilot Plant.

- **Minimum INEEL Processing Alternative**—The mixed HLW calcine would be retrieved, packaged for transportation, and shipped to DOE's Hanford Site in Richland, WA. The calcine would be separated into high-radioactivity and low-radioactivity fractions. The high-radioactivity fraction would be processed to a glass form suitable for disposal in a repository and either shipped directly to an offsite facility or returned to INEEL to await shipment to a HLW repository. Likewise, the low-radioactivity fraction would be prepared for disposal in a near-surface landfill at INEEL or an offsite facility.

*Facilities Disposition Alternatives* were developed and analyzed to address the final risk component of the proposed actions and close HLW treatment and associated management facilities when their missions are completed. These alternatives are listed and briefly described below.

- **No Action Alternative**—DOE would not close its HLW facilities at INEEL, but would maintain the facilities to ensure the safety and health of workers and the public until 2095. After that time, for purposes of analysis, DOE assumed that institutional controls such as surveillance and maintenance would not continue.

- **Clean Closure Alternative**—All of the hazardous wastes and radiological contaminants, including contaminated equipment, would be removed from the facility or treated so that any remaining hazardous and radiological contaminants would be indistinguishable from background concentrations.

- **Performance-based Closure Alternative**—Closure methods would be determined on a case-by-case basis, depending on risk, in accordance with risk-based criteria. Most above-ground structures would be razed and most underground structures would be decontaminated and left in place. Any remaining facilities would be decontaminated to comply with applicable requirements for protecting the health of workers and the public.

- **Closure to Landfill Standards Alternative**—Facilities would be closed in accordance with State of Idaho and Federal requirements specified in regulations for closure of landfills.

- **Performance-based Closure with Class A Grout Alternative**—Facilities would be closed as described for the Performance-based Closure alternative, except that the tanks or bin sets would be used to dispose of Class A Type low-level waste.

- **Performance-based Closure with Class C Grout Alternative**—Facilities would be closed as described for the Performance-based Closure alternative, except that the tanks or bin sets would be used to dispose of Class C Type low-level waste.

#### Preferred Alternative

Neither DOE nor the State of Idaho has identified a preferred alternative for either the waste processing or the facilities disposition alternatives. After considering information in this Draft EIS, including public comments and other relevant information, DOE and the State will enter into discussions concerning the preferred alternative. If DOE and the State reach agreement, the Final EIS will identify the agreed-upon preferred alternative; if not, the Final EIS will set forth both the State's and DOE's respective choices for the preferred alternatives.

#### Availability of the Draft EIS

Copies of this Draft EIS have been distributed to Federal, State, and local officials, as well as agencies, organizations and individuals who may be interested or affected. This Draft EIS is available on the Internet at: <http://tis.eh.doe.gov/nepa/docs/docs.htm>. Additional copies can be requested by telephone at 1-888-918-5100. Copies of the Draft EIS and supporting technical reports are also available for public review at the locations listed below.

In December 1999, the National Research Council issued a study that DOE had requested of the technical options for treating high-level waste at the Idaho National Engineering and Environmental Laboratory. Copies of the study, entitled *Alternative High-level Waste Treatments at the Idaho National Engineering and Environmental Laboratory*, are also available at the locations listed below. DOE will consider the study and all comments received during the public comment period in preparing the Final EIS.

#### Colorado

U.S. Department of Energy, Rocky Flats Operations Office, Public Reading Room, Front Range College Library, 3705 112th Avenue, Westminster, CO 80030, Telephone: (303) 469-4435

#### Idaho

Boise Outreach Office, INEEL-Boise City National Bank, 895 West Idaho Street, Boise, ID 83706, Telephone: (208) 334-9572

Boise Public Library, 715 Capital Boulevard, Boise, ID 83706, Telephone: (208) 384-4023

Boise State University Library, Albertson Library, 1910 University Drive, Boise, ID 83705, Telephone: (208) 426-3903

Shoshone-Bannock Library, Bannock and Pima Streets, P.O. Box 306, Fort Hall, ID 83203, Telephone: (208) 238-3882

INEEL Technical Library, DOE Public Reading Room, 2525 N. Fremont Place, University Place, Idaho Falls, ID 83402, Telephone: (208) 526-9162

Idaho Falls Public Library, 457 Broadway, Idaho Falls, ID 83402, Telephone: (208) 529-1450

Lewis-Clark State College, The Library, 500 8th Ave., Lewiston, ID 83501, Telephone: (208) 799-5272

University of Idaho Library, Rayburn Street, Moscow, ID 83844, Telephone: (208) 885-6344

Idaho State University Public Library, 741 South 7th Ave., Pocatello, ID 83209, Telephone: (208) 236-3152

Twin Falls Public Library, 434 2nd Street East, Twin Falls, ID 83301, (208) 733-2964

#### Montana

Mansfield Library, Government Documents Collection, University of Montana, Missoula, MT 59812, Telephone: (406) 243-6860

#### Nevada

U.S. Department of Energy, Nevada Operations Office, Public Reading Room, 2621 Losee Rd., B-3 Building, North Las Vegas, NV 89030, Telephone: (702) 295-0731

#### New Mexico

US DOE Public Document Collection, University of New Mexico Government Information Department, Zimmerman Library, Albuquerque, NM 87131, Telephone: (505) 277-5441

#### Oregon

U.S. Department of Energy, Bonneville Power Administration Reading Room, 905 Northeast 11th Avenue, Portland, OR 97232, Telephone: (503) 725-4617

#### Utah

Marriott Library, Public Document Collection, University of Utah, 295 S. 1500 East, Salt Lake City, UT 84112, Telephone: (801) 581-8394

*Washington*

U.S. Department of Energy, Richland Operations Office, Washington State University, WSU Tri-Cities Branch Campus, 100 Sprout Road, Richlands, WA 99352, Telephone: (509) 376-8583

*Wyoming*

Teton County Public Library, 125 Virginian Lane, Jackson, WY 83001, Telephone: (307) 733-2164  
Wyoming State Library, Government Documents Collection, 2301 Capitol Avenue, Cheyenne, WY 82002, Telephone: (307) 777-6333

*District of Columbia*

DOE Forrestal Building, Freedom of Information Reading Room, 1000 Independence Ave., SW, Washington, DC 20585, Telephone: (202) 586-6020

Issued in Washington, DC, January 14, 2000.

**Mark W. Frei,**

*Deputy Assistant Secretary for Project Completion, Environmental Management.*

[FR Doc. 00-1494 Filed 1-20-00; 8:45 am]

**BILLING CODE 6450-01-M**

**DEPARTMENT OF ENERGY****Chicago Operations Office; Office of Industrial Technologies****Notice of Solicitation for Financial Assistance Applications for Cooperative Research and Development for Advanced Materials in Advanced Industrial Gas Turbines**

**AGENCY:** Chicago Operations Office, DOE.

**ACTION:** Notice of solicitation availability.

**SUMMARY:** The Department of Energy (DOE) announces its interest in receiving applications for federal assistance. The purpose of this research is to advance the state of development of one or more advanced material system(s) for integration into Advanced Industrial Gas Turbine Systems used in power generation service. In order to reach this goal, development, subsystem testing, and demonstration of optimized and fully integrated components comprising advanced material system(s) must be performed.

**DATES:** The solicitation document will be available on or about December 17, 1999. Applications are due on or about February 4, 2000. Awards are anticipated by June 1, 2000.

**ADDRESSES:** The solicitation will be available on the internet by accessing the DOE Chicago Operations Office

Acquisition and Assistance Group home page at <http://www.ch.doe.gov/business/acq.htm> under the heading "Current Solicitations", Solicitation No. DE-SC02-00CH11005. Completed applications referencing Solicitation No. DE-SC02-00CH11005 must be submitted to the U.S. Department of Energy, Chicago Operations Office, Communications Center, Building 201, Room 168, 9800 South Cass Avenue, Argonne, IL 60439-4899, ATTN: Roberta D. Schroeder, Acquisition and Assistance Group.

**FOR FURTHER INFORMATION CONTACT:**

Roberta D. Schroeder at 630/252-2708, U.S. Department of Energy, 9800 South Cass Avenue, Argonne, IL 60439-4899, by facsimile at 630/252-5045, or by electronic mail at [roberta.schroeder@ch.doe.gov](mailto:roberta.schroeder@ch.doe.gov).

**SUPPLEMENTARY INFORMATION:** The Scope of Work covers applied research and pre-commercial demonstration in five work areas as described below as Tasks 1, 2, 3, 4 and 5. In addition to these tasks the Scope of Work includes Subtasks A and B. Subtask A will require the participant to provide a report covering the potential technical market and technical/economic barriers. Subtask B will require the participant to provide a commercialization plan for advanced industrial turbines utilizing advanced material system(s).

The Tasks represent an increasing progression of maturation stages for technology development. Tasks 1 and 2 involve research, design, and development of advanced materials systems, Tasks 3 and 4 involve technology systems development including gas-turbine modifications, and Task 5 involves pre-commercial demonstration. Depending on the current maturation of proposed technologies, the work may start at any task if prior work has been performed that would satisfy completion or sufficient progress of the previous task(s). For example, an applicant with an innovative concept but limited development experience for that concept may decide to apply only under Task 1—whereas applicants with more developed concepts may elect to bypass the initial tasks. Applications may address any combination or portions of the tasks. While it is not mandatory for applications to address only sequentially numbered tasks (*e.g.*, applying under Tasks 1, 3 and 4 is allowable), there must be a logical sequence of the tasks to be performed based on the nature of the work to be performed.

The ultimate maturation of technologies will be reached upon the

attainment of the solicitation objectives in a pre-commercial demonstration of 8,000 hours (Task 5). Although it is the intention of this solicitation to support development of advanced material systems that will so culminate, there also is relevancy in gaining a better understanding of the advanced materials systems and their impact on gas turbines. In such a case, development of a completed commercial system may not be feasible. For example, development may end prior to the maturation state of Task 5, or Task 5 may be scheduled to complete less than the 8,000 hours (but more than 4,000 hours as discussed below) identified in the solicitation as a goal for commercialization. Regardless of the tasks proposed, applications will raise the maturation level of the concept relative to the solicitation objectives.

Insofar as Subtask A and B are concerned, all participants will complete the program and planning report required by Subtask A, which will become a subtask of the lowest numbered Task proposed. Additionally, participants performing work under Tasks 3, 4 and/or 5 will complete the commercialization plan required by Subtask B as a part of the lowest numbered Task proposed that is equal to or greater than 3.

All work proposed to be performed under an application must be scheduled for completion within the three-year life expectancy of this program.

Under Tasks 1 and 2 that follow, the work may be performed with respect to test devices or turbines that could serve as a logical and cost effective intermediate basis for developing technologies for advanced material systems. However, any such technology developed under Tasks 1 and 2 must have applicability to advanced industrial gas turbines.

Under Tasks 3, 4 and 5 that follow, all work must be performed with respect to advanced industrial gas turbines (including test devices suitable to characterize aspects of advanced industrial gas turbines), and the demonstration required under Task 5 must be performed on an advanced industrial gas turbine(s). In performing this work, one or more such turbines may be used.

Work under all tasks requires the participation of material processors at any level (applicant or sub-applicant) with sufficient responsibility to accomplish the work proposed. Work under all tasks also will be enhanced by the participation of an end user. For these tasks, this solicitation encourages the coordination of technical and administrative activities with an end