

Development Agreements, loan guarantees, other transactional arrangements. Please limit your suggestions to those contractual authorities already granted to DOE or other government agencies you identify.

#### *5. Areas of Technology Development Required for Potential Commercialization*

Please identify what technical areas associated with your approach would benefit from additional research, development or demonstration (RD&D) activities, how and to what extent this RD&D would mitigate technical or technology risk, estimated timeframes to accomplish this RD&D, parties performing the activities, and other technical issues that need to be addressed.

#### *6. Government Furnished Data/Technology/Equipment*

Describe what, if any, government furnished data, technology, or equipment you would require to accomplish your defined approach. State whether you have any existing rights or license for the use of the data or technology, and if not, how you would pursue acquiring such rights.

#### **Confidentiality**

Confidential or business sensitive information contained in the submission must be identified and marked accordingly. DOE will protect this information from public disclosure to the extent permitted by law.

This EOI is not a formal solicitation requesting proposals and does not represent a commitment by the Government to award a contract. The Government does not intend to formally respond to information submitted in response to this EOI. The Government is not responsible for costs incurred to submit a response to this EOI, conducting other activities associated with pre-solicitation planning, or submitting a proposal in response to a solicitation, if issued.

Issued in Washington, DC, on July 31, 2006.

**Dennis R. Spurgeon,**

*Assistant Secretary for Nuclear Energy, Office of Nuclear Energy.*

[FR Doc. E6-12747 Filed 8-4-06; 8:45 am]

**BILLING CODE 6450-01-P**

## **DEPARTMENT OF ENERGY**

### **Notice of Request for Expressions of Interest in a Consolidated Fuel Treatment Center To Support the Global Nuclear Energy Partnership**

**AGENCY:** Office of Nuclear Energy, Department of Energy.

**ACTION:** Notice of request for expressions of interest.

**SUMMARY:** Based upon feedback since the President of the United States announced the Global Nuclear Energy Partnership (GNEP) in February 2006, the U.S. Department of Energy (DOE) is seeking Expressions of Interest (EOI) from domestic and international industry in building spent nuclear fuel recycling and transmutation fuel fabrication capabilities. DOE contemplates locating these capabilities together in a Consolidated Fuel Treatment Center (CFTC) and seeks expressions of interest from potential domestic host sites. DOE is also seeking to define the interest of industry to build upon their proven capabilities and participate in demonstrating spent nuclear fuel (SNF) recycling technologies that meet GNEP goals. This EOI will help inform DOE's GNEP Program as to those issues that industry and potential host sites consider important to the ultimate construction of sustainable, commercial-scale SNF recycling technologies that meet GNEP objectives. The information gained from this EOI will be used to create Requests for Proposals (RFP) for the proposed CFTC.

**DATES:** Interested parties wishing to submit an EOI should do so in writing by September 8, 2006, to ensure their input is considered. A briefing for respondents to learn about DOE's baseline plan and answer EOI-related questions will be held on August 14, 2006, 8 a.m.-12 p.m., in the Washington, DC metropolitan area. The specific meeting location will be announced on the GNEP Web site, <http://www.gnep.energy.gov>. Please indicate your interest in attending the briefing by sending an e-mail indicating your intent to attend to [GNEP\\_EOI\\_RSVP@nuclear.energy.gov](mailto:GNEP_EOI_RSVP@nuclear.energy.gov). It is recognized that GNEP is moving forward on an aggressive schedule that will task all of the responders' abilities to provide quality information in a short period of time. DOE believes that GNEP can help to revitalize the U.S. nuclear industry and improve its global competitive position. Early participation by industry in this effort will greatly maximize GNEP's success.

**FOR FURTHER INFORMATION CONTACT:** By postal mail, Mr. John F. Gross, Mail Stop: NE-2.4/Germantown, 1000 Independence Avenue, SW., Washington, DC 20585-0119; by phone on 301-903-3918; by e-mail at [GNEP\\_EOI\\_RSVP@nuclear.energy.gov](mailto:GNEP_EOI_RSVP@nuclear.energy.gov).

**ADDRESSES:** Please send all hardcopy Expressions of Interest to Mr. John F. Gross, Mail Stop: NE-2.4/Germantown, U.S. Department of Energy, 1000 Independence Avenue, SW., Washington, DC 20585-0119. Electronic versions of the Expressions of Interest may be submitted in pdf (portable document format) format by e-mail to [GNEP\\_EOI\\_RSVP@nuclear.energy.gov](mailto:GNEP_EOI_RSVP@nuclear.energy.gov).

#### **SUPPLEMENTARY INFORMATION:**

##### **Background**

As part of President Bush's Advanced Energy Initiative, DOE has launched the Global Nuclear Energy Partnership (GNEP). The broad goals of GNEP are described in the Report to Congress—Spent Nuclear Fuel Recycling Program Plan issued May 2006, <http://www.gnep.energy.gov/pdfs/snfRecyclingProgramPlanMay2006.pdf>.

A major element of GNEP is the development and deployment of advanced nuclear fuel recycling technologies. In general, advanced recycling technologies focus on three operations:

(1) Separate commercial LWR SNF into its usable and waste components.

Spent nuclear fuel contains uranium, transuranics (plutonium and other long-lived radioactive elements), and fission products. The fission products are waste and make up less than five percent of the used fuel. Buildup of fission products within the fuel inhibits nuclear fission reactions so the spent fuel must be replaced with fresh fuel for continued operation of a nuclear reactor. The transuranics and uranium in SNF would be separated from the fission products and then fabricated into new fuel for a fast reactor to consume the transuranics and uranium while simultaneously recovering their energy content. The SNF recycling program would use advanced separation processes (e.g., Uranium Extraction Plus or other comparable processes).

(2) Fabricate and recycle fast reactor fuel containing transuranic elements.

Fabricating, testing, and qualifying fast reactor fuel containing transuranic and actinide elements (i.e., transmutation fuel), obtained from recycled spent fast reactor fuel, is required to provide fresh fuel for the reactor. After the qualification of transmutation fuel, the GNEP facilities would demonstrate recycle of fast

reactor transmutation fuel and eventually could include the construction of a separate transmutation fuel separations and fabrication facility.

(3) Convert transuranics into shorter-lived radioisotopes while producing electricity.

Fast reactors produce high-energy neutrons that can fission long-lived transuranics, thus converting the transuranics into shorter-lived radioisotopes. As the transuranics are consumed, significant energy is released that can be used to produce electricity from material that would otherwise be considered waste and potentially require disposal in a geologic repository.

The Department initially announced an approach that would demonstrate technologies from the laboratory at engineering scale, prior to a second phase of commercialization. This initial approach is described in the Report to Congress—Spent Nuclear Fuel Recycling Program Plan issued May 2006, <http://www.gnep.energy.gov/pdfs/snfRecyclingProgramPlanMay2006.pdf>.

Following the announcement of the GNEP Program by the President, a number of foreign governments and private companies expressed interest in cooperating in the near-term with the Department in the development and deployment of advanced recycling technologies. Some of these entities indicated they are pursuing similar technologies and, in some cases, these technologies may be ready for deployment prior to those currently under development by the Department. In light of this information, DOE seeks to determine the feasibility of accelerating the development and deployment of advanced recycling technologies that would enable commercial scale demonstrations that meet GNEP objectives. These demonstrations would utilize industry expertise to build the well-understood stages of advanced technology for the separation of LWR SNF, and the construction and operation of a fast reactor, while designing in the modules for incorporating group separation of actinides, transmutation fuel production, burning, and recycling operations.

This approach would involve two simultaneous tracks: (1) Deployment of commercial scale facilities for which advanced technologies are available now or in the near future and (2) further research and development on transmutation fuels technologies. This two-track approach could result in two commercial scale facilities, one of which is the subject of this EOI. These facilities are:

- Consolidated Fuel Treatment Center (CFTC; subject of this EOI)—a facility to separate the usable uranium and transuranics from spent light-water reactor fuel for use in fabricating fast reactor fuel. During the second track the CFTC would be augmented or a separate transmutation fuel separations and fabrication facility would be constructed to separate and fabricate fast reactor transmutation fuel.

- Advanced Burner Reactor (ABR)—fast reactor to use transmutation fuel and consume transuranic elements within the fuel and generate electricity. The ABR is expected to be qualified with conventional fast reactor fuel. Subsequently, the ABR would be used to demonstrate the feasibility of recycling fast reactor transmutation fuel.

A third facility, the Advanced Fuel Cycle Facility (AFCF), will be designed and directed through DOE's national laboratories and will support development of the technologies required to separate and fabricate fast reactor transmutation fuel. The AFCF is not currently a subject of a Request for Expressions of Interest.

#### CFTC Characteristics

DOE prefers to constrain as little as possible this EOI on the fuel cycle pathway to meet GNEP goals. Industry's input is valuable in considering the ultimate technical and pragmatic configuration of GNEP's closed fuel cycle. Some rough parameters for considering the ultimate characteristics of a CFTC facility for the GNEP Technology Demonstration Program are set out below. They simply illustrate the type of information DOE is requesting in this EOI and respondents should not interpret the following information as a final decision from DOE on the CFTC's characteristics or the overall demonstration program. The responses to this EOI may significantly influence subsequent RFPs.

#### *Desired CFTC General Characteristics*

The complete CFTC would be designed to perform several key functions in support of GNEP technology development objectives, including:

- Separating reusable uranium and transuranics from spent light water reactor (LWR) fuel for use in fabricating fast reactor driver fuel. (An additional facility designed and directed through a DOE national laboratory will support development of the technologies required to separate and fabricate fast reactor transmutation fuel, i.e., fuel that is fabricated from uranium, plutonium, and other transuranics found in LWR spent fuel.)

- Demonstrating the separation of LWR and fast reactor SNF into their usable components and the fabrication of transmutation fuel from those components.

- Consuming transuranic elements in a fast reactor. See the Advanced Burner Reactor (ABR) EOI for a discussion of that element.

- Ensuring that facility designs meet U.S. standards for safeguards and security.

Developing this complete system to support GNEP remains the central objective, drawing upon the expertise and capabilities of industry and international partners to achieve it. Further,

- The CFTC shall safely and reliably perform its LWR spent fuel process storage and separations functions as well as providing safe and reliable ABR driver fuel fabrication capabilities. The CFTC shall be capable of being licensed by the U.S. Nuclear Regulatory Commission (NRC) and operated in accordance with NRC regulations. The CFTC shall incorporate design features and technologies to promote reliable system performance during normal operations and in response to postulated accident scenarios.

- The CFTC shall demonstrate improved spent fuel separations technologies. This shall be accomplished in a process whose end products are not pure plutonium or other weapons-grade fissile material. The spent fuel separations technology will be further enhanced by advanced safeguards and security monitoring technology.

- The CFTC will produce, through spent fuel separations, high-purity uranium for reuse as reactor fuel or disposal as low-level waste, transuranic fuel feed material for transmutation in a fast reactor, and fission products with reduced heat generation and radiotoxicity for long-term geologic disposal.

- The CFTC shall be designed such that the future cost of spent fuel receipt, separations process, product management, and fuel fabrication capabilities can be shown as an efficient component of an economical fuel cycle. It is desirable that the material remain throughout in as low a category as possible for attractiveness for use in a nuclear weapon and for safeguarding purposes.

- The CFTC shall fabricate the driver fuel (i.e., fuel for the initial startup core and subsequent refueling of the core in advance of the availability of transmutation fuel) for the ABR to initially generate power.

- CFTC technologies shall be capable of commercial deployment.

#### *Example of Technical Characteristics of the CFTC*

- Process storage capacity: Sufficient storage capacity should be included to support full-scale plant operation, including storage of spent fuel prior to separations as well as storage of the resulting separated material.

- Spent fuel separations throughput: Able to be increased to approximately 2,000 to 3,000 metric tons per year to support commercial operation.

- Separations technology: UREX+1a where major products include high-purity uranium, cesium and strontium, transuranics, spent fuel cladding hulls, and fission products. Alternative separation technologies with different product streams (e.g., different actinide separation efficiencies or distributions) may be proposed.

- Waste disposition strategies: Waste minimization is a priority and should focus on reducing radiotoxicity, half-life, heat generation, and minimize criticality concerns.

- Fast reactor driver fuel type: Oxide or metal based (depends on fuel type selected in related GNEP ABR EOI).

#### *Geographic*

- The SNF processing and fuel fabrication operations may be collocated with ABR.

- Existing DOE or commercial facilities or new facilities may be addressed in the response.

#### *Regulatory*

- Must comply with all environmental protection laws and regulations.
- Must be capable of being licensed under NRC regulations applicable to demonstration operations on privately owned land regardless of where the demonstration is sited.

#### **Content of EOI**

The following items identify the information that DOE is requesting in this EOI. All respondents are encouraged to provide information beyond that requested if it is believed to be beneficial to their responses.

##### *1. Level of Interest and Proposed Scope of Interest*

Please describe how you believe DOE could accelerate successful demonstration of SNF integrated recycling technologies to advance the goals of GNEP. Describe the approach that you believe should be taken to accomplish this goal, including its benefits and risks, and describe your

level of interest or potential participation. Also, provide a description of what you believe your approach does to advance the broad goals of GNEP (as described, for example, in the Background section). In particular, for the CFTC, DOE is interested in:

- a. What LWR spent fuel process storage capabilities, separations technology and throughput (initial and final), and fast sodium reactor driver fuel fabrication system characteristics would be proposed to achieve the CFTC mission?

- b. What set of separations process technologies are sufficiently mature to implement immediately and what proposed technologies or components require additional developmental work (e.g., advanced centrifugal contactors, advanced monitoring instrumentation) to achieve the CFTC mission?

- c. What are the key elements of the proposal's product and waste management strategies? Are there near-term strategies using existing technology as well as long-term strategies for improved waste minimization and product form as well as storage and disposition technologies envisioned? If so, specify the key elements of future improvements, their relative costs and their benefits.

- d. In addition to advanced separation processes, what technology development could be pursued to support spent fuel recycling consistent with the goals of GNEP?

##### *2. Proposed Roles of Parties Involved*

Please identify who you believe the parties to such a venture should include and the role of each party. Parties could include U.S. Government and foreign government agencies, state and local government agencies, nongovernmental organizations, domestic and foreign commercial firms (e.g., Architect & Engineering (A&E) firms, component manufacturers, electric utility companies, etc.) or any other entity you may identify that fits into your proposed solution. Your statement should clearly identify the role each party would play in ensuring the success of your proposition, whether direct or indirect. Examples of roles include, but are not limited to, providing financing, guaranteeing financing, A&E services, construction, facility operations, program or project management, regulatory compliance support, and hardware vendor. Provide an assessment of the benefit to the U.S. Government and GNEP of your proposed parties and their roles. Also, provide a description of the benefits that would accrue to each of the parties in

this venture. Benefits could include, but are not limited to, financial gain, intellectual property, market position, facilities, education, and advancing policy goals.

##### *3. Resources*

For each entity you have identified in Item 2 above, provide specifics describing the resources each party could provide to ensure the program's success. These resources may include, but are not limited to, financial, existing or new facilities, personnel (include a description of the type of personnel, e.g., technical, management, regulatory, financial, etc.), intellectual property, and leased equipment.

##### *4. Proposed Contractual Vehicle*

Please provide a description of the contractual vehicle(s) you feel should be employed in furtherance of your approach. Examples may include, but are not limited to, contracts, financial assistance, Cooperative Research and Development Agreements, loan guarantees, other transactional arrangements. Please limit your suggestions to those contractual authorities already granted to DOE or other government agencies you identify.

##### *5. Areas of Technology Development Required for Potential Commercialization*

Please identify what technical areas associated with your approach would benefit from additional research, development or demonstration activities, how and to what extent this research and development (R&D) would mitigate technical or technology risk, estimated timeframes to accomplish this R&D, parties performing the activities, and other technical issues that need to be addressed.

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Issued in Washington, DC, on July 31, 2006.

**Dennis R. Spurgeon,**

*Assistant Secretary for Nuclear Energy, Office of Nuclear Energy.*

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**BILLING CODE 6450-01-P**

## DEPARTMENT OF ENERGY

### **Biological and Environmental Research (BER); Federal Interagency Steering Committee on Multimedia Environmental Modeling**

**AGENCY:** Office of Science; Biological and Environmental Research (BER), Department of Energy, (DOE).

**ACTION:** Notice of open meeting.

**SUMMARY:** The annual public meeting of the Federal Interagency Steering Committee on Multimedia Environmental Modeling (ISCMEM) will convene to discuss new operational initiatives for FY 2007 as a result of the revised Memorandum of Understanding (MOU) among the participating agencies.

**DATES:** August 24, 2006. Time: 9:30 a.m. to 5 p.m.

**ADDRESSES:** The American Geophysical Union (AGU) headquarters building, 2000 Florida Avenue, NW., Washington, DC 20009.

#### **FOR FURTHER INFORMATION CONTACT:**

Inquiries and notice of intent to attend the meeting may be faxed or E-mailed to: Dr. Robert T. Anderson, ISCMEM Chair, Office of Biological and Environmental Research SC-23.4 / Germantown Building, U.S. Department of Energy, 1000 Independence Avenue, SW., Washington, DC 20585-1290. Tel: 301-903-5549. Fax: 301-903-4154. [Todd.Anderson@science.doe.gov](mailto:Todd.Anderson@science.doe.gov).

#### **SUPPLEMENTARY INFORMATION:**

**Background:** Nine Federal agencies have been cooperating under a MOU on the research and development of multimedia environmental models for the last 5 years. The MOU establishes a framework for facilitating cooperation and coordination among the following agencies (the specific research organization within the agency is in parenthesis): U.S. Army Corps of

Engineers (Engineer Research and Development Center); U.S. Department of Agriculture (Agricultural Research Service); U.S. Department of Agriculture (Natural Resources Conservation Service); U.S. Department of Energy (Office of Biological and Environmental Research); U.S. Environmental Protection Agency; U.S. Geological Survey; U.S. National Oceanographic and Atmosphere Administration; and U.S. Nuclear Regulatory Commission (Office of Nuclear Regulatory Research); U.S. Bureau of Reclamation. These agencies are cooperating and coordinating in the research and development (R&D) of multimedia environmental models, software and related databases, including development, enhancements, applications and assessments of site specific, generic, and process-oriented multimedia environmental models as they pertain to human and environmental health risk assessment. Multimedia model development and simulation supports interagency interests in risk assessment, uncertainty analyses, water supply issues and contaminant transport. This MOU was just renewed by member agencies ensuring another 5 years of continuing collaboration and cooperation among the participating agencies in these areas.

**Purpose of the Public Meeting:** The annual public meeting provides an opportunity for the scientific community, other Federal and State agencies, and the public to be briefed on ISCMEM activities and their initiatives for the upcoming year, and to discuss technological advancements in multimedia environmental modeling.

**Proposed Agenda:** The ISCMEM Chair will open the meeting with a brief overview of the goals of the MOU, the activities of ISCMEM and changes in organizational operations as a result of the revised and renewed ISCMEM MOU. This introduction will be followed by series of invited presentations throughout the morning session focusing on topics of mutual interest to ISCMEM participants. The afternoon session will be largely devoted to discussing future goals and projects that will set the stage for collaborative interactions among ISCMEM participating agencies for the next 5 years. A detailed agenda with presentation titles and speakers will be posted on the MOU public Web site: <http://www.ISCMEM.org>.

**Meeting Access:** The headquarters of the American Geophysical Union (AGU) is located at 2000 Florida Avenue, NW., Washington, DC 20009. The most convenient transportation to the meeting venue is via Metro. Please take

Metro to the Dupont Circle Metro stop on the Red Line. Take the "Q" Street exit of the Dupont Circle station. Upon exiting the Metro station proceed North on Connecticut Avenue for about 3 blocks. Turn right onto Florida Avenue for about one-half block. AGU building is on the right. Please inform the security personnel upon entering the building that you are attending the public meeting on multimedia environmental modeling. The meeting room is on the ground floor to your left as you enter the building.

**Robert T. Anderson,**

*Chair, Federal Interagency Steering Committee on Multimedia Environmental Modeling.*

[FR Doc. E6-12748 Filed 8-4-06; 8:45 am]

**BILLING CODE 6450-01-P**

## DEPARTMENT OF ENERGY

### **Energy Information Administration**

#### **Continuation of Forms EIA-182, "Domestic Crude Oil First Purchase Report," and EIA-856, "Monthly Foreign Crude Oil Acquisition Report"**

**AGENCY:** Energy Information Administration, Department of Energy.

**ACTION:** Notice of Continuation of Forms EIA-182, "Domestic Crude Oil First Purchase Report," and EIA-856, "Monthly Foreign Crude Oil Acquisition Report."

**SUMMARY:** The Energy Information Administration (EIA) will continue the monthly collection of data on the Forms EIA-182, "Domestic Crude Oil First Purchase Report," and EIA-856, "Monthly Foreign Crude Oil Acquisition Report," through the reporting of October 2006 data that is due to EIA by November 30, 2006.

**DATES:** Data collection on Forms EIA-182 and EIA-856 will continue through November 30, 2006.

**ADDRESSES:** Inquiries about the continuation of Forms EIA-182 and EIA-856 should be directed to Susan Harris at the Energy Information Administration, EI-42, Forrestal Building, Mail Stop: 2E-050, U.S. Department of Energy, Washington, DC 20585, telephone: (202) 586-8384, E-mail address: [susan.harris@eia.doe.gov](mailto:susan.harris@eia.doe.gov) or fax number: (202) 586-1076.

**FOR FURTHER INFORMATION CONTACT:** Requests for additional information should be directed to Susan Harris at the address listed above.

#### **SUPPLEMENTARY INFORMATION:**

I. Background

II. Current Actions