

requested that will look at novel uses of the calcium sulfate and calcium sulfite-based FGD material.

Development of Advanced SCR Catalysts

National NO_x emissions may be capped at levels well below current emissions under proposed multi-pollutant control initiatives to address continued concerns about secondary fine particles (including those formed by reactions with NO_x) and ozone. Such proposals would essentially extend the current NO_x State Implementation Plan Call to twelve months and expand it to all 48 contiguous states. While selective catalytic reduction (SCR) is the workhorse for the largest units of the existing generating fleet in meeting current NO_x regulations, future more stringent requirements drive the need to lower the cost of this technology. Accordingly, development of advanced SCR catalyst technology that is cheaper and has fewer balance-of-plant issues than current SCR technology could offer a lower cost option for the smaller units. In order to adapt SCR technology to hard to retrofit boilers, three options are proposed for research:

- Development of a more reactive catalyst than current commercially available catalysts that would require a smaller reactor with less catalyst and able to operate at higher gas velocities to achieve NO_x removal efficiencies of 90%.
- Development of a catalyst that would operate at low dust conditions and temperatures experienced after the particulate removal device to achieve NO_x removal efficiencies of 90%.
- Development of a catalyst for items (1) or (2) that has a dual function of oxidizing elemental mercury.

In both cases, it is suggested to have the reducing agent to be other than an ammonia-based reagent or methane due to their balance-of-plant issues, availability, and cost. Utilization of combustion gas constituents such as carbon monoxide would be a plus. In all cases, an economic goal of developing the technology at ¾ the levelized cost of the current state of the art SCR technology should be established.

The proposal of the successful applicants should be able to demonstrate knowledge of the process conditions of a coal-fired utility boiler equipped with low NO_x burners for the targeted area of catalyst development.

Innovative Concepts Phase-II Program

The DOE anticipates funding two to four awards in the Phase-II Program. The goal of the Phase-II Program, the principal R&D effort of the IC Program,

is to solicit research that augments research previously funded through the Phase-I Program. Only the institutions receiving a Phase-I grant awarded in fiscal year 2002 will be eligible to submit an application for continuation of their Phase-I projects. The following institutions are eligible to participate in the Phase-II Program in FY04:

Drexel University

- “Ultrasensitive High-Temperature Selective Gas Detection Using Piezoelectric Microcantilevers”

University of Albany

- “Feasibility of a SOFC Stack Integrated Optical Chemical Sensor”

University of Nevada

- “Advanced Heat Exchanges Using Tunable Nanoscale-Molecular Assembly”

University of Pittsburgh

- “A Novel Concept for Reducing Water Usage and Increasing Efficiency in Power Generation”

The Pennsylvania State University

- “Reaction Mechanism of Magnesium Silicates with Carbon Dioxide in Microwave Fields”

Arizona State University

- “Simultaneous Mechanical & Heat Activation: A New Route to Enhanced Serpentine Carbonation Reactivity & Lower CO₂ Mineral Dequestration Process Cost”

University of Utah

- “Carbon Dioxide Sequestration by Mechano-chemical Carbonation of Mineral Silicates”

Iowa State University

- “Development of a Catalyst/Sorbent for Methane Reforming”

University of Maine

- “Inorganic Membranes”

University of North Dakota

- “Advanced Heterogeneous Reburn Fuel from Coal and Hog Manure”

The University of Mississippi

- “Heterogeneous Reburning by Mixed Fuels”

University of North Dakota

- “Mercury Oxidation via Catalytic Barrier Filters”

University of Pittsburgh

- “Engineered Coal Reburning in Oxidizing Environments”

Once released, the solicitation will be available for downloading from the IIPS Internet page. At this Internet site you will also be able to register with IIPS, enabling you to submit an application. If you need technical assistance in registering or for any other IIPS function, call the IIPS Help Desk at (800) 683-0751 or E-mail the Help Desk personnel at IIPS_HelpDesk@e-center.doe.gov. The solicitation will only be made available in IIPS, no hard

(paper) copies of the solicitation and related documents will be made available. Telephone requests, written requests, E-mail requests, or facsimile requests for a copy of the solicitation package will not be accepted and/or honored. Applications must be prepared and submitted in accordance with the instructions and forms contained in the solicitation. The actual solicitation document will allow for requests for explanation and/or interpretation.

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Issued in Morgantown, WV on September 16, 2003.

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[FR Doc. 03–24350 Filed 9–25–03; 8:45 am]

BILLING CODE 6450–01–M

ENVIRONMENTAL PROTECTION AGENCY

[ER–FRL–6644–2]

Environmental Impact Statements; Notice of Availability

Responsible Agency: Office of Federal Activities, General Information (202) 564–7167 or <http://www.epa.gov/compliance/nepa/>
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Filed September 15, 2003 Through September 19, 2003

Pursuant to 40 CFR 1506.9.

EIS No. 030426, FINAL EIS, NOA, AK,
Cook Inlet Beluga Whale Stock, Federal Actions Associated with the Management and Recovery, Implementation, Cook Inlet, AK, Wait Period Ends: October 27, 2003, Contact: James W. Balsiger (907) 271–5006.

EIS No. 030427, FINAL EIS, AFS, AK,
Licking Creek Timber Sale, Timber Harvest, Implementation, Tongass National Forest, Ketchikan Misty Fiords Ranger District, Revillagigedo Island, Ketchikan, AK, Wait Period