

research and advanced concepts pertinent to fossil resource conversion and utilization limited to the nine (9) technical topics listed below.

Topic 1—Advanced Environmental Control Technology for Coal

Grant applications in support of Advanced Environmental Control Technology for Coal are only solicited for the following subtopics:

Coal Preparation
Hot Gas Stream Cleanup
Advanced High Efficiency Emissions Control
Waste Management

Topic 2—Advanced Coal Utilization

Grant applications in support of Advanced Coal Utilization are only solicited for the following subtopics:

Advanced Coal Combustion Systems
Fluid Bed Combustion (FBC)

Topic 3—Coal Liquefaction Technology

Grant applications in support of Coal Liquefaction Technology are only solicited for the following subtopics:

Advanced Concepts for Conversion of Coal to Liquids
Advanced Concepts for Conversion of Syngas to Liquids
Coal-Oil Coprocessing
Advanced Catalysts

Topic 4—Biotechnology for Fossil Energy

Grant applications in support of Biotechnology for Fossil Energy are only solicited for the following subtopics:

Beneficiation of Coal Resources
Conversion of Fossil Energy Resources
Bioreactors and Bioprocess Efficiency
Enhanced Oil and Gas Recovery

Topic 5—Advanced Recovery of Oil

Grant applications in support of Advanced Recovery of Oil are only solicited for the following subtopics:

Recovery of Light Oil
Recovery of Heavy Oil
Oil-Field Geoscience

Topic 6—Advanced Technology for the Recovery of Natural Gas

Grant applications in support of Advanced Technology for the Recovery of Natural Gas are only solicited for the following subtopics:

Advanced Geotechnology in Production Applications
Advanced Concepts for Natural Gas Conversion to Liquids

Topic 7—Advanced Environmental Considerations in the Recovery and Processing of Oil and Natural Gas

Grant applications in support of Advanced Environmental

Considerations in the Recovery and Processing of Oil and Natural Gas are only solicited for innovative methods and concepts that allow more efficient, effective, and economical reduction of environmental risk from the processing and primary, secondary, and enhanced extraction of oil and natural gas. Research relating to open oil spill cleanup technologies will not be considered.

Topic 8—Heavy Oil Upgrading and Processing

Grant applications in support of Heavy Oil Upgrading and Processing, are sought for the following subtopics:

(a) *Improved Understanding of the Chemistry and the Thermodynamics of Adding Hydrogen to Heavy Feedstocks;*
(b) *Improved Understanding of the Chemistry and the Thermodynamics of the Removal of the Contaminants, i.e., S, N, O, Metals, etc., from Heavy Feedstocks;*

(c) *Development of New and Less Expensive Means for Producing Hydrogen from Feedstocks other than Light Hydro-carbons which are Excellent Fuels as is;*

(d) *Development of New and Less Expensive Contaminant Removal Processes for Heavy Oils along with Environmentally Acceptable Means of Disposing of the Contaminants when Removed;*

(e) *Development of New Knowledge to be used to Improve Catalytic Cracking and Hydrocracking Catalysts and Process; and*

(f) *Development of the Knowledge, Catalysts and Processes Necessary to Eliminate the Production of Petroleum Coke or the Ability to Liquefy it so that it can be Recycled to the Refinery.*

Topic 9—Faculty/Student Exploratory Grants

DOE is seeking grant applications from HBCU faculty and/or students for a supportable basic premise on any one of the subtopics covered under the above eight (8) technical topics. DOE will provide "seed" grants to the selected HBCU(s) to enable the faculty and/or student researcher(s) to conduct the proposed exploratory research and further develop the stated premise. This is the *only* topic (Topic nine (9)) under this Program Solicitation that does not require initial private sector collaboration for an application to be considered for selection.

Awards: DOE anticipates issuing financial assistance (grants) for each project. DOE reserves the right to support or not support any or all applications received in whole or in part, and to determine how many

awards may be made through the solicitation subject to funds available in this fiscal year. The limitation on the maximum DOE funding for each selected grant to be awarded under this Program Solicitation is as follows:

	Maximum award
Topics 1–8:	
To 12 months grant duration	\$80,000
13–24 months grant duration	140,000
25–60 months grant duration	200,000
Topic 9:	
To 12 months grant duration	10,000

Approximately one million dollars is planned for this solicitation. The total should provide support for approximately four to eight R&D proposal selections (Topics 1–8), and approximately two to six facility/student exploratory proposal selection (Topic 9).

Solicitation Release Date: The Program Solicitation is expected to be ready for mailing on January 12, 1995. Applications must be prepared and submitted in accordance with the instructions and forms in the Program Solicitation. To be eligible, applications must be received by the Department of Energy by the closing date stated in the solicitation.

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Record of Decision for Remedial Actions at Operable Unit 4, Fernald Environmental Management Project, Fernald, Ohio

AGENCY: U.S. Department of Energy.

ACTION: Notice.

SUMMARY: The Record of Decision (ROD) for Operable Unit 4 (OU4) at the Fernald Environmental Management Project was signed by the Department of Energy on November 3, 1994, and was approved by the Environmental Protection Agency (EPA) Region V on December 7, 1994, with concurrence of the Ohio Environmental Protection Agency. This decision was made in accordance with the provisions of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 42 U.S.C. 9601 *et seq.* For OU4 at Fernald, the Department has chosen to complete an integrated CERCLA/National Environmental Policy Act (NEPA) process. To support the selection of a remedy for OU4, which includes K-65 silo wastes, the