PROJECT STATUS REPORT

June 19, 1992
Period Covered 1/9/92-4/8/92

CONTRACT TITLE: Establishment and Maintenance of a Coal Sample Bank and Data Base

CONTRACT NUMBER: DE-RP22-87PC79997

CONTRACTOR NAME: The Pennsylvania State University
Energy & Fuels Research Center
205 Research Building E
University Park, PA 16802

CONTRACT PERIOD: April 1991 to April 1993

1. Contract Objective: No change

2. Technical Approach Changes: None

3. Contract Tasks:

Task 1-B: Storage of Coal Samples

Documentation of Sample Quality and Deterioration

The fourth annual set of quality monitoring analyses is underway; results have been obtained for 29 samples.

Task 1-C: Collection of Samples, Sampling Handling and Processing

No samples were collected during the quarter. Processing continued on samples collected previously.

Task 1-D: Characterization of Coal Samples

The Hardgrove Grindability instrument was calibrated using splits of four standard reference material samples obtained from DOE/PETC. The new calibration curve was not significantly different from the old. Four repeat analyses were performed as a check against previous results on DECS samples, and DECS-18 was tested. The results have been added to data printouts and the interactive data base.

Task 1-E: Distribution of Samples to Users

During the period 1/9/92-4/8/92 a total of 56 samples (41 DOE Sample Bank samples and 15 other Penn State samples) of various sizes, not...
including DECS-17, were distributed. Thirty-five of these samples were provided to DOE contractors.

Five orders for a total of 40 30-gram bags and 8 300-gram bags of DECS-17 have been filled. All of these bags have been distributed to DOE dispersed catalyst contractors or those approved by DOE to receive the samples.

Task 2: Operation of the DOE Coal Data Base

1) During the current reporting period a total of 121 data printouts were distributed. In addition, 14 special data requests were fulfilled by either search/sort and printout or creation of a data disk, resulting in distribution of limited information on over 2044 samples. Several preliminary requests for Sample Bank and Data Base information and price quotations have also been handled.

2) Agencies supplied with coal samples and/or data include:

Advanced Fuel Research Co. (2)
Amoco Oil Company, Research and Development Division
* Auburn University, Chemical Engineering Dept.
BCR National Laboratory
Brigham Young University, College of Engineering Technology
Chevron Oil Field Research Co.
Central Research Institute, Electric Power Industry (Japan) (2)
Exxon Research and Development (2)
Genesis Research Corp. (2)
Korea Advanced Institute of Science & Technology
Pennsylvania State University
   Fuel Science Dept. (5)
   Geosciences Dept. (3)
   Mineral Processing Dept. (4)
Potomac Electric Power Company
Southern Illinois University, Geology Dept.
Stanford University
Texas A & M University, Mechanical Engineering Dept. (2)
Tuskegee University, Chemical Engineering Dept.
* University of Kentucky, Consortium for Fossil Fuel Liquefaction Science (3)
* University of New Hampshire
* University of Pittsburgh
* University of Toronto (2)
Unocal Science & Technology Division
* U.S. Department of Energy/Pittsburgh Energy Technology Center (3)
Wisconsin Dept. of Natural Resources

* Signifies agencies receiving sample DECS-17.

The numbers in parentheses are multiple requests which were separately processed.
Approximately ten copies of the 61-page second edition of the booklet "The Penn State Coal Sample Bank and Data Base" were distributed during the quarter.

A site visit was made by U.S. Department of Energy personnel on March 17 and 18, 1992.

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