The MITRE Corporation
Metrek Division

MASTER

23 September 1980

W82-120
1815N

Mr. Art Roemer
U.S. Department of Energy
Forrestal Building
Room 4G025
1000 Independence Avenue
Washington, D.C. 20585

Subject: Transmittal of MPR-80W00076, No. 2. July 10 - August 8, 1980
Contract Number: DE-AC02-79EV10092

Dear Mr. Roemer,

Enclosed are five copies of the MITRE Progress Report No. 2, MPR-80W00076 which covers the period July 10 through August 8, 1980. This is the final progress report for contract number DE-AC02-79EV10092.

Sincerely,

Kathy K. Rebibo
Group Leader
Energy and Environmental
Modeling

KKR:ljp

Enclosures

cc: Peter House bcc: R. Kalagher
Ted Williams R. Lay
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Jack Coleman

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SEP 29 1980

ROBERT J. KALAGHER

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MITRE PROGRESS REPORT

Division of Regulatory Analysis
Office of Environmental Assessment
Assistant Secretary for the Environment
U.S. Department of Energy

MPR-80W00076

No. 2

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Project No. 1815N

Contract No.: DE-AC02-79EV10092

Date: 23 September 1980

Period of: July 10 - August 8, 1980

Approval:

Kathy K. Leibel

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Metrek Division
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SUMMARY

This is the final progress report for this contract. The contract runs through September 30, 1980; however the majority of the funds were expended in early August. This progress report documents the major accomplishments on the two remaining SEAS tasks for the period of July 10 to August 8, 1980. The tasks are:

- SEAS Scenario Runs
- SEAS Management, Documentation, Maintenance and Support.

The Scenario Run work in this month period consisted of the completion of the TASE 6 scenario on the Reference System, development of an ARMS Baseline Scenario and a run of the NEP2 Scenario. The major effort was spent on ARMS and a briefing on this work was presented jointly to DOE and EPA on August 8.

The SEAS Management, Documentation, Maintenance and Support task continued at about a five person level during this period. A list of all the SEAS Change Requests that have been completed under this contract (since the procedures began in March 1980) is contained in Table 1. Approximately forty additional change requests have been proposed. Some of these have been approved by the Change Control Board and are in progress. Work has continued on several documents and some have been published. In addition to the ARMS Design Briefing on August 8, MITRE participated in two other Design Briefings during this month report period. These are the July 14 Briefing on the "Guidance Document" and the July 23 Briefing on the TECNET/MOBIL 1 Comparison and on the Graphics Preprocessor Design.

TABLE 1
LIST OF SEAS CHANGE REQUESTS COMPLETED

<u>CCN</u>	<u>DESCRIPTION</u>
80-01	Electric Utility Module: Incorporate RIIA Capabilities into the Reference System
80-02	Electric Utilities Module: Correct COBOL Interface Problem
80-03	Modifications to the Report Package
80-04	Add Graphics Package (Design Only)
80-05	IFUM: Inconsistent Data in Coal Switching
80-06	IFUM: Correct Reporting of New Coal - SIP
80-07	ESNS: Correct LNKSHR Outputs
80-08	INVEST: Review and Revise Capital Cost Data for Coal, Oil and Gas
80-09	REGION: Inconsistencies Across Sectors at the Regional Level
80-10	Initial Update of Secondary Solid Waste Coefficients
80-11	Incorporation of Latest "Data Book" data into SEAS
80-12	Improving Base Year (1975) Hydrocarbon Emission Estimates
80-15	Update of Water Consumption Coefficients for Fossil-Fueled Electric Utilities and Manufacturing Industries
80-16	Error Correction - Residual Coefficient Files
80-17	Area Source Air Pollutants
80-19	Synthetic Fuels Siting Initial Update
80-20	Completion of Translation of Residuals Data From Old to New Taxonomy
80-21	Names Files Corrections

TABLE 1 (Continued)

<u>CCN</u>	<u>DESCRIPTION</u>
80-22	EUM: Expand the Build Input File (Matrix Procedure)
80-23	Fix of NEDS/SEAS Discrepancies (83.02 Sintering for Particulates and CO; 83.31 BOF for CO; 81.30 Cement-Wet for SOx)
80-24	IFUM: Correct Reporting of New Coal
80-25	Update of National CO ₂ Coefficients for Coal Combustion
80-26	Correction of RESGEN Coefficients for Petroleum Refineries
80-28	Interim Data Load Manual for INSDATA
80-29	Interim Data Load Manual for ABATE
80-32	Replacement of Synfuel County Siting List
80-33	Siting for Sector 69.45 (Oil Shale Modified in SITU)
80-34	Update Occupational Safety Coefficients
80-35	CO ₂ Coefficients Update from NEI80 Scenario Runs
80-37	Nonpoint Source Module Code Correction
80-42	Update Names File
80-46	Data File Changes from NEI80
80-47	Update Coefficients for SOx from New Coal-Fired Power Plants Under RNSPS (BACT)
80-48	ESNS: Delete CREALLOC Links for Hydroelectric & Geothermal
80-50	Update Residual Coefficients for Petroleum Refining Sectors
80-62	Error in Shares for Domestic Oil Production
80-63	CO ₂ Coefficients Update
80-64	Water Consumption Coefficients Update for Petroleum Refineries
80-65	Update of Coefficients for SOx & Solid Waste from SO ₂ Removal for Fluidized Bed

TABLE 1 (Concluded)

<u>CCN</u>	<u>DESCRIPTION</u>
80-66	Update Coefficients for Fly & Bottom Ash in SEAS
80-67	Delete Secondary SO ₂ Coefficients for Certain Non-Energy Gas-Processing Sectors

The remainder of this progress report provides a review of this period's activities in greater detail. Table 2 lists the important meetings held during this period. Table 3 is a continuing list of products completed on this contract since December 1, 1979. There are five additional reports which are not yet complete but which were done primarily under this contract. These are the final versions of the Operations Procedures Manual and the Scenario Run Control Manual, an update to the SEAS Standards report, The Introduction to SEAS, and the Guide to the SEAS Preprocessors. These reports should be finalized in September and October.

Continuing Use and Support of SEAS

The SEAS Model will continue to be used by DOE and EPA. Applications that are anticipated within the next year include additional analyses for ARMS and TASE, environmental trends for the "near-term initiators" and the NEP 3 from DOE's Office of Policy and Evaluation, and further work on the NEIP80. The continued SEAS support will be through an Interagency Agreement with EPA. This agreement will support the SEAS maintenance control procedures, finalize the five reports started under this contract but not published, and provide for additional analyses for ARMS using SEAS.

TABLE 2
 IMPORTANT MEETINGS BETWEEN
 July 10 and August 8, 1980

Date	Place	Attendees	Topic
7/8	DOE	DOE, MITRE, ANL	ANL Water Quality Model Interface
7/14	DOE	DOE,EPA,SEAS Team	Design Briefing: Guidance Document and ORNL Siting Model
7/16	EPA	Coleman,MITRE,CDC	ARMS User Meeting
7/23	EPA	DOE,EPA,SEAS Team	Design Briefing: TECNET/MOBIL 1 Comparison and Graphic Design
7/23	EPA	Change Control Board	SEAS Change Requests
7/28	EPA	Coleman,MITRE,CDC	ARMS User Meeting
8/8	DOE	DOE,EPA,SEAS Team	Design Briefing: ARMS Baseline Scenario

TABLE 3

PRODUCTS COMPLETED SINCE DECEMBER 1, 1979

12/6/79	<u>Proposed Revisions to the TECNET Model.</u> Draft prepared for The MITRE Corporation by CONSAD Research Corporation, December 6, 1979.
12/17/79	<u>Annual Environmental Analysis Report II.</u> The MITRE Corporation, MTR-79W00284, Final Draft, December 1979.
12/26/79	Hand, Mary Ann. <u>SEAS Training Session on Electric Utilities Models.</u> The MITRE Corporation, WP-79W00617, Volume II, November 1979.
12/28/79	RIIA 2 High and Low Scenario computer printouts at the National and Federal Regional level. State level reports on tapes. (Reference Subtask 2(c) and (d) of RIIA 2 task order.
1/2/80	<u>Environmental Data for Energy Technology Policy Analysis Volume III: Coal.</u> The MITRE Corporation, MTR-7992, December 1979.
1/80	RIIA 2 High and Low Scenario reports for energy and residuals at the National, Federal, Regional, State levels to T. Harris of RAD.
1/7/80	Weygandt, William, and Alan Bernstein. <u>SEAS Training Session on Coal Mining Module.</u> WP-79W00617, Volume III. The MITRE Corporation and CONSAD Research Corporation, November 1979.
1/9/80	Adler, David, Nazir Dossani, and Gabriel Sucher. <u>SEAS Documentation: The Indirect Residuals Module.</u> Prepared for the MITRE Corporation by CONSAD Research Corporation, December 1979.
1/9-1/15/80	TASE 14 and TASE 6 runs redelivered to MITRE.
1/21/80	Documentation of National/Federal region results presented in letter to Greg D'Alessio.
1/18/80	<u>Environmental Data for Energy Technology Policy Analysis Volume II: Nuclear Fuel Cycle.</u> The MITRE Corporation, MTR-7991, January 1980.

TABLE 3

PRODUCTS COMPLETED SINCE DECEMBER 1, 1979 (continued)

1/18/80	<u>Environmental Data for Energy Technology Policy Analysis Summary Volume.</u> The MITRE Corporation, MTR-74, January 1980.
1/28/80	AQCR level projections of SO _x , TSP, NO _x , and solid waste and ASA level projections of TDS _x from the RIIA 2 high and low world oil price scenarios on tape to the national laboratories.
1/28/80	County level energy projections for electric utilities and industrial combustion (by fuel type) and coal mining for the RIIA 2 high and low world oil price scenarios, as well as the data files (all on tape) to the national laboratories.
1/28/80	Status and description of RIIA 2 documentation reports (reference MITRE letter No. W54-541). Sponsor request.
1/29/80	Metzger, Carol. <u>Strategic Environmental Assessment System Scenario Run Control Procedures Manual.</u> Control Data Corporation. Draft, January 18, 1980.
1/29/80	Edwards, Gerald and Donald Forsht. <u>Strategic Environmental Assessment System Maintenance Procedures.</u> Control Data Corporation. Draft, January 18, 1980.
1/29/80	Stokes, Betsy, Patricia Cumiskey, and Mary Ann Hand. <u>Bibliography for SEAS National Level Residual Coefficients.</u> WP-79W00787. The MITRE Corporation, November 1979.
1/29/80	Alfred Doermann, Mary Ann Hand, Eugenia Hughitt. <u>Relationships Between Regional and National Projections Using Data From the Mid-Range Energy Forecasting System.</u> WP-79W00785. The MITRE Corporation. December 1979.
2/1/80	Summary of regionalization techniques used in SEAS (Reference MITRE letter No. W54-546). Sponsor request.
2/4/80	RIIA 2 water consumption residual reports to CONSAD
2/7/80	Summary answers and detailed backups for ten National Laboratory questions

TABLE 3

PRODUCTS COMPLETED SINCE DECEMBER 1, 1979 (continued)

2/13/80	Six copies of the "OLDELEC" computer report giving detailed data on electric utilities in operation before January 1, 1976
2/13/80	Six copies of the "Announced Plant List" giving data on plants announced to operate after December 31, 1975 and "phantom" or ranked plants required to meet scenario demands after all announced plants are in operation
2/13/80	AQCR data files, which contain residuals at the AQCR level in a data file format
2/13/80	SO _x and TSP generation by old electric utilities at the county level
2/14/80	Revised AQCR/ASA residual reports sent to National Laboratories for TASE
2/15/80	Written explanation of the contents of and the methodology for reading the OLDELEC and announced plant list. (Reference MITRE letter No. W54-564)
2/21/80	Sucher, Gabe. <u>References for SEAS Energy Regionalization.</u> CONSAD Research Corporation, February 14, 1980
2/1/80- 2/29/80	Updated each of the ten sets of the SEAS documentation
2/27/80	<u>National Environmental Impact Projection II,</u> Draft, MTR-79W00118, The MITRE Corporation, January 1980
3/7/80	<u>Strategic Environmental Assessment System Maintenance Procedures Supplement.</u> Control Data Corporation, Draft. February 27, 1980
3/7/80	Edwards, Jerry. <u>SEAS Reference System.</u> Memorandum to Don Forsht. Control Data Corporation, March 5, 1980
3/7/80	Revised data tapes sent to National Laboratories for TASE

TABLE 3

PRODUCTS COMPLETED SINCE DECEMBER 1, 1979
(Continued)

- 3/20 "Derivation and Use of Water Residuals Coefficients in the RIIA-2 Application of SEAS", WP-80W00058. The MITRE Corporation.
- 3/20 "Derivation and Use of SEAS Water Consumption Coefficients for the Regional Issues Identification Assessment (RIIA-2) Project - Electric Utilities and Manufacturing Industries", WP-80W00020. The MITRE Corporation.
- 3/20 "Electric Utility Emission Calculations Used in the Strategic Environmental Assessment System and Update of the State Implementation Plan File", WP-80W00117. The MITRE Corporation.
- 3/20 Preston, Edward. Regionalization of Industrial Energy Demand in the Strategic Environmental Assessment System, WP-80W00038. The MITRE Corporation. February 5, 1980.
- 3/21 TenEyck, Francine; Porterfield, Lisa; Rebibo, Kathy. A Guide to SEAS Documentation, MTR-79W00355. The MITRE Corporation. January 1980.
- 3/21 Parker, Lucille. Table Oriented Runstream Initiator Device (Program TORID) - Dialogue Generation Manual. Prepared for The MITRE Corporation by Control Data Corporation. January 31, 1980.
- 3/21 Parker, Lucille. Table Oriented Runstream Initiator Device (Program TORID) - User's Manual. Prepared for The MITRE Corporation. January 31, 1980.
- 3/21 Hand, Mary Ann and Smith, Betsy. SEAS 8 Summary, MTR-80W00028. The MITRE Corporation. January 1980.
- 4/1 Buck, Mark. Strategic Environmental Assessment System Graphics Preprocessor Design Paper. Prepared for U.S. Environmental Protection Agency and U.S. Department of Energy by Control Data Corporation. April 1, 1980.
- 4/9 Sucher, Gabe. Design Paper -- The Estimation of Hydrocarbon Emissions from Area Source Solvent Evaporation Loss. CONSAD Research Corporation. April 9, 1980.
- 4/17 Bodden, Martha, et al. Taxonomy Manual and User's Guide for SEAS Environmental Residuals, WP-80W00246. The MITRE Corporation. April 1980.

TABLE 3

PRODUCTS COMPLETED SINCE DECEMBER 1, 1979
(Continued)

- 4/17 Borko, Beth. Development of a New Taxonomy for SEAS Environmental Residuals: Background and Approach, WP-80W00245. The MITRE Corporation. April 1980.
- 4/17 Bernstein, Alan. SEAS Data Documentation Standards. CONSAD Research Corporation. March 17, 1980.
- 5/6 "EIA Scope Memorandum". Prepared by Prekimi Tawari, The MITRE Corporation. May 6, 1980.
- 5/12 Shapanka, Adele. "State and Regional Process/Product Discrepancies in SEAS and Their Effects on Residuals Estimates". CCN-80-09. CONSAD Research Corporation.
- 5/14 "Scenario Specifications for the Three EIA80 Scenarios". Memorandum to Art Roemer from Kathy Rebibo. The MITRE Corporation. May 14, 1980.
- 5/19 Tawari, Prekimi and Hutchison, Roberta. Introduction to the Residual Generation Module of SEAS, WP-79W00617, Vol.IX. The MITRE Corporation. April 1980.
- 6/2 "NEI80 Scenario". Memorandum to Art Roemer from Raj Shah and Marc Narkus-Kramer. Control Data Corporation and The MITRE Corporation. June 2, 1980.
- 6/5 Metzger, Carole. SEAS Names and Definitions Manual. Prepared for U.S. Environmental Protection Agency and U.S. Department of Energy by Control Data Corporation. June 1980.
- 6/5 Preston, Edward. Introduction to the Industrial Fuel Use Module of SEAS, WP-79W00617, Vol.V. The MITRE Corporation. April 1980.
- 6/5 "NEI80 Scenario Delivery". Letter to Art Roemer from Kathy Rebibo. The MITRE Corporation. June 5, 1980.
- 6/9 "NEI80 Scenario Delivery". Letter to Art Roemer from Prekimi V. Tawari. The MITRE Corporation. June 9, 1980.
- 6/20 McBrien, Stephen, et al. Guidance for Interpretation of Projections from the May 1980 SEAS Reference System, WP-80W00368. The MITRE Corporation. June 2, 1980.

TABLE 3

PRODUCTS COMPLETED SINCE DECEMBER 1, 1979
(Continued)

6/20	Metzger, Carole and Parker, Lucille. <u>INSIDE Subsectors Data Load Manual</u> . Prepared for U.S. Environmental Protection Agency and U.S. Department of Energy by Control Data Corporation. May 31, 1980.
6/20	Parker, Lucille (CDC) and Tawari, Prekimi (MITRE). <u>Residual Generation (RESGEN) Data Load Manual</u> . Prepared by Control Data Corporation and The MITRE Corporation. March 31, 1980.
6/24	<u>Background Information for Interpretation of RIIA-2/SEAS Data</u> , WP-80W00304. The MITRE Corporation. June 1980.
6/24	"Documentation of Electric Utilities Module in SEAS for the Second Regional Issue Identification Assessment (RIIA-2)", WP-80W00027. June 1980.
6/25	"Transmittal of Information on RIIA High World Oil Price Scenario". Letter to Mr. Alf Shepherd from Roberta Hutchison. The MITRE Corporation. June 25, 1980.
6/26	"NEI80 Scenario Delivery". Letter to Art Roemer from Prekimi Tawari. The MITRE Corporation. June 26, 1980.
7/15	"Results of Change Control Board Meeting of June 30, 1980" Letter from Kathy Rebibo. The MITRE Corporation. July 15, 1980. (W81-205).
8/5	"Results of Change Control Board Meeting of July 23." Letter from Kathy Rebibo. The MITRE Corporation. August 5, 1980. (W82-037).
8/8	Parker, Lucille. <u>Energy Investment Feedback (ENFEED) Data Load Manual</u> . Prepared by Control Data Corporation, Professional Services Division. Preliminary Issue. July 31, 1980.
8/8	Parker, Lucille. <u>Abatement Cost Feedback (ABATE) Data Load Manual</u> . Prepared by Control Data Corporation, Professional Services Division. Preliminary Issue. July 31, 1980.
8/8	Parker, Lucille. <u>Regionalization Module (REGION) Data Load Manual</u> . Prepared by Control Data Corporation, Professional Services Division. July 31, 1980.

- 8/8 "The Use of SEAS in the Acid Rain Mitigation Study." Briefing presented to The Environmental Protection Agency and The Department of Energy by The MITRE Corporation. August 8, 1980.
- 9/23 Hutchison, Roberta and Prekimi Tawari. Flowcharts of the SEAS Modules, WP-80W00179. The MITRE Corporation. September 1980.
- 9/23 "SEAS: The Strategic Environmental Assessment System." A fifteen minute tape/slide presentation directed by Betsy Smith. The MITRE Corporation. September 1980.

TASK NO. 25: SEAS SCENARIO RUNS

Major Activities and Accomplishments

• TASE Sensitivity Analysis

The TASE 6 scenario was run on the reference system. Specifications for this run were transmitted to CDC in two letters: W81-215 on July 22 and W82-013 on July 25. The TASE 14 and the sensitivity run were postponed in favor of the ARMS work.

Several tasks were accomplished during the run of TASE 6 on the Reference System. The work included: 1) changing efficiencies for the Industrial Process Heat links in ESNS, 2) changing capital costs for the corresponding ABATE sectors in the Energy Investment Module, and 3) mapping ESNS link numbers to the input variables for the FOSSIL-to-SEAS Preprocessors.

The efficiency and capital cost changes were made so that the energy demand for Industrial Process Heat was consistent with the conventions of ESNS (i.e., demand is end-use demand not service demand). Also, the same efficiency changes had to be incorporated in the preprocessors.

The mapping of ESNS to the FOSSIL-to-SEAS Preprocessors was necessary, because TASE 6 was not run strictly using FOSSIL outputs. Iterative changes were made to the original scenario dependent input files. To match the old TASE 6 run, numbers from ESNS had to be used as input to the preprocessors rather than numbers from a FOSSIL printout. In general, the ESNS output is more technology

specific than FOSSIL values. The mapping was a valuable exercise, because now the Preprocessors can also be readily used for EPA Scenarios which start with a master run of ESNS.

- Baseline Scenario for the Acid Rain Mitigation Study (ARMS)

This task was sponsored jointly by DOE and EPA.

SEAS is being used in ARMS to provide a consistent framework in which to measure the relative contributions of Utility, Industrial Combustors and other major sources of SOx and NOx. It will be used to study a variety of methods to reduce SOx and NOx emissions. In this task an ARMS baseline scenario was developed. It is derived from the NEI80 High World Oil Price scenario from EIA. The industrial fuel combustion end use demands were modified by the Office of Policy and Evaluation for ARMS. This is documented in a Scope Memorandum of July 25 (MITRE letter W82-010).

A scenario input deck consistent with the energy assumptions given by DOE was created. This deck along with run specifications (MITRE letter W82-025, July 29) was delivered to CDC. The SEAS Referency System was run at the National, Federal Region and State level for six pollutants. The outputs were certified and the scenario results analyzed. The scenario description and results were presented in a briefing to DOE and EPA on August 8, 1980.

Two improvements to the ARMS baseline scenario were suggested.

The first was to use the latest published SIPs for electric utilities (just released by EPA) and to review the industrial SIPs

to see if they should be updated. The second suggestion was to revise the coal distribution in the industrial sector to more closely represent current coal use. These suggestions are being incorporated under a MITRE-EPA contract.

• National Energy Plan

The NEP2 deck and run specifications were sent to CDC on August 1 (MITRE letter W82-032). The Reference System was run and the outputs checked and sent to DOE. A brief comparison of this scenario (run on the current Reference System) with the same scenario run last December for RIIA was undertaken. Comparison was difficult because of the following model changes:

- Capacity factors of Old Electric Utilities
- Baseline Calibration
- Numerous Coefficient Updates
- New Taxonomy Restructure of Solid Waste Residuals.

No data was received from DOE on the NEP3.

TASK NO. 24: SEAS MANAGEMENT, DOCUMENTATION, MAINTENANCE AND SUPPORT

Major Activities and Accomplishments

This task provides continuing support to the SEAS model, the control procedures and ad hoc requests.

● Change Controls

A Change Control Board meeting was held on July 23 (MITRE letter W82-037 of August 5, 1980). Nine change requests were approved for implementation. Ten requests were completed during this reporting period.

● Ad Hoc Requests

- Work continued on the development of the specifications of an interface program for the Argonne Water Quality Model. Information and documentation was sent to Mike Davis (MITRE letters: W81-213, July 21 and W82-065, August 18, 1980). This work will be completed under another funding mechanism.
- Additional support was provided to the NEIP80 report. This included additional computer runs on updated coefficients and clarification of assumptions and outputs (W81-196, July 11, "SEAS Estimates of Water Consumption by Oil Refineries"; W81-201, July 15, "Ash and Dust Production By Old Coal-Fired Utility Plants"; W82-015, July 29, "ESECA Conversions").
- A SEAS unit-specific plant mapping to the FERC file was sent to Fred Lipfert at Brookhaven on July 16 (W81-207).
- Data on Synfuels siting for RIIA was sent to Josephine Peck of Aeospace on two occasions (W82-004, July 24 and W82-033, August 4).

- CDC has sent files of SEAS data to Oak Ridge National Laboratory, Aerospace Corporation, Berkeley Laboratory and CONSAD Research Corporation.
- Summary on Synfuels siting and RIIA control totals was sent to Art Roemer (W82-001, July 24).

• Documentation

The SEAS Flowchart Package is complete and has been published. Final editing and review will complete the Introduction to SEAS. This paper will be published in early October. In addition, the fifteen minute tape/slide presentation on SEAS which was initiated during SEAS 8 will be completed in September. Three Data Load Manuals, two of which are preliminary issues, are complete and have been transmitted to DOE. A draft chapter in a new DOE book entitled "Managing the System" was written at the request of DOE. The draft versions of the Maintenance Control Procedures Manual and the Scenario Run Control Procedures Manual were updated. The SEAS Documentation Standards report was also updated. These three documents are scheduled for review in September and October prior to final publication. The Guide to the SEAS Preprocessors is complete except for a section on the FOSSIL interface. This paper is expected to be published in October.

• Management

In addition to project management and planning, several other activities have been included in this category. These

are:

- User meetings on ARMS applications
- Design Briefings.

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