GA-A23811

GT-MHR COMMERCIALIZATION STUDY

Technical Progress and Cost Management Report for the Period
July 1 through July 31, 2002

by
GT-MHR Staff

Contact: A. S. Shenoy

Prepared under
Oakland Operations Office
Program DE-AC03-01SF22343
for the U.S. Department of Energy

General Atomics Project No. 30103
DATE PUBLISHED: August 2002

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**GT-MHR Commercialization Study
Monthly Technical Progress and Cost Management Report
for July 2002**

Contract No. DE-AC03-01SF22343
Submitted to: DOE - Oakland Operations Office
By: General Atomics

PART 1 – Technical Progress

Summary

- As of the end of July, the graphite material for containing the compact during irradiation had not been received from ORNL. Shipment of the compacts and the graphite to Petten is planned to be in the same shipment. The graphite material is expected to be received in early August.
- The final report for the first year activities was prepared and issued as GA report GA-A24045. This report provides the final report of all activities performed on this project during the period from June 18, 2001 through June 30, 2002.
- In support of the preparation of a DOE Advanced Gas Reactor Fuel Development and Qualification Program Plan, input was provided to each of five industry-federal laboratory working groups in accordance with the guidance provided by DOE-HQ.

Task 1 – Fuel Irradiation

In the first year work on this project (ended end of June), the work scope was to make arrangements for shipping the compacts. Compacts were selected, inspected and packaged and licensing was confirmed to be in place to permit shipping.

The irradiation test requires that the compacts be contained in graphite material and a source of nuclear grade graphite (H-451) was found at ORNL. Shipment of the compacts and the graphite is planned to be in the same shipment. As of the end of July, the graphite material had not been received from ORNL but is now expected to be received in early August.

Task 2 – Fuel Manufacturing Process Improvement

This task has been completed.

Task 3 – NRC Interaction

This task is not currently funded.

Task 4 – Plant Cost Evaluation

This task has been completed.

Task 5 – Waste Disposal Assessment

This task has been completed.

Task 6 – Final Report and Recommendations for Further Development Activities

This task covers all of the commercialization study project management and project development activities.

The final report for the first year activities was prepared and issued as GA report GA-A24045. This report provides the final report of all activities performed on this project during the period from June 18, 2001 through June 30, 2002. No separate monthly progress report was issued for the month of June.

In July, a contract modification was received providing \$150,000 in additional funding for continuation of Task 1, Task 6 and to partially fund a new Task 7 to support the preparation of a DOE Advanced Gas Reactor Fuel Development and Qualification Program Plan.

Task 7 – DOE Fuel Plan

GA assisted the DOE-HQ led AGR fuel program planning effort by participating in each of the five working groups formed at the AGR fuel meeting at INEEL in May. Input was provided for the deliverables being prepared by each of the five groups in accordance with the guidance provided by DOE-HQ. The working group deliverables are to be integrated under the leadership of INEEL and ORNL into a draft Fuel Plan that is to be submitted to DOE by September 6.

Part 2 - Cost Management

During July 2002, a contract modification was received providing \$150,000 in additional funding for continuation of Tasks 1 and 6 and the addition of a new task (Task 7) for participation in the preparation of a coated particle fuel development plan for DOE. With this additional funding, the total budgeted funding is \$850,000.

Item	Total Expenditures, K\$	
	July 2002	Inception to Date ¹ , Totals
Task 1 – Fuel Irradiation	0.8	54.4
Task 2 – Fuel Manufacturing Process Improvement	0.2	204.2
Task 3 – NRC Interaction	5.4	143.4
Task 4 – Plant Cost Evaluation	0	87.2
Task 5 – Waste Disposal Assessment	0	102.6
Task 6 – Final Report and Recommendations	1.3	108.7
Task 7 – DOE Fuel Plan	18.0	18.0
Totals	25.6	730.4

Note:

1. Work started June 18, 2001.