GA-A23811

GT-MHR COMMERCIALIZATION STUDY

Technical Progress and Cost Management Report for the Period
December 1 through December 31, 2003

by
GT-MHR Staff

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**GT-MHR Commercialization Study
Monthly Technical Progress and Cost Management Report
for December 2003**

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

PART 1 – Technical Progress

Summary

- A complete set of detail drawings of the HRF-EU2 irradiation assembly was received from Petten. Petten has also indicated that the compacts were loaded into the assembly during December. The HFR-EU2 Irradiation Safety Test Report (to be prepared by the Petten Authority) has not been completed.
- During December, the following report was completed: "Development Plan for Advanced High Temperature Coated-Particle Fuels" General Atomics Report No PC-00051. This report completes the work scope of Task 10, Advanced Fuel Studies.

Task 1 – Fuel Irradiation

During December we received a complete set of detail drawings of the HRF-EU2 irradiation assembly. We understand that the compacts were loaded into the assembly during December. The six available activated compacts were loaded into the six center axial positions and four non-activated compacts will occupy the remaining positions. The HFR-EU2 Irradiation Safety Test Report (to be prepared by the Petten Authority) has not been completed

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 – Project Management and Project Development

This task covers all of the commercialization study project management and project development activities. During December, routine reviews of project activities were performed and the monthly report for November was prepared.

Task 7 – DOE Fuel Plan

This task has been completed.

Task 8 – MHR-2 Fuel Specification

This task has been completed.

Task 9 – This task number not currently used***Task 10 – Advanced Fuel Studies***

During December, the following report was completed:

“Development Plan for Advanced High Temperature Coated-Particle Fuels”
General Atomics Report No PC-00051.

This report is the third report planned to be prepared under this task and completes the task work scope. This report will undergo review, approval and release for transmittal to DOE in January. The first two reports completed under this task, as described in last month’s progress report, will also be transmitted along with this report to DOE during January.

Task 11 – VHTR Materials Survey

This task has been completed.

Part 2 - Cost Management

Item	Total Expenditures, K\$	
	December 2003	Inception to Date ¹ , Totals
Task 1 – MHR-1 Fuel Irradiation	1.1	161.1
Task 2 – Fuel Manufacturing Process Improvement	0.0	204.0
Task 3 – NRC Interaction	0.0	143.8
Task 4 – Plant Cost Evaluation	0.0	87.3
Task 5 – Waste Disposal Assessment	0.0	103.2
Task 6 – Project Management and Development	(1.2)	140.4
Task 7 – DOE Fuel Plan	(0.2)	140.4
Task 8 – MHR-2 Fuel Specification	(0.2)	56.5
Task 10 – Advanced Fuel Plan	48.9	338.6
Task 11 – VHTR Materials Survey	(0.9)	22.0
Totals	47.5	1,397.3

Note:

1. Work started January 18, 2001.