

MONTHLY PROGRESS REPORT FOR CONTRACT NO. 500-00-036

PROJECT 2.2 – ENHANCED ENERGY RECOVERY THROUGH OPTIMIZATION OF
ANAEROBIC DIGESTION AND MICROTURBINES PROJECT

REPORT PREPARED BY: COMMONWEALTH ENERGY TEAM

June 2003

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What we planned to accomplish this period:

Information collection and analysis activities were planned to continue as related to process selection. Activity related to enhanced energy production, gas cleaning and advanced energy recovery was also expected to continue. It was anticipated that a planning meeting would be held involving IEUA, Ingersoll Rand and Commonwealth Team staff to more fully identify and evaluate gas cleaning options for this project. In addition, preparation on the draft process selection report was anticipated to continue in June

What we actually accomplished this period:

Task 2.2.1 Process Selection:

- Data collection and analysis activities continued in May. Information was assembled on different processes that are being analyzed as part of the Process Selection task. Activities related to refining process concepts for enhanced anaerobic digestion continued. A meeting was scheduled involving Ingersoll Rand and IEUA to review Ingersoll Rand's new fuel conditioning system and its possible use on this project. Arrangements were made for a site visit of potential project sites at RP-1. The purpose of the meetings and site visit involving IEUA, CH2M HILL and Ingersoll Rand and IEUA staff was to explore how the IR gas cleaning technology could be deployed at RP-1.
- Work on the process selection report is continuing although completion of the biogas portion of the report cannot be completed until the results of the power flow work are available. Because it is not anticipated that these power flow results will be available in June, efforts on this task were minimized. Further, since much of the work for this task was completed earlier, most effort this month was expended on the gas cleaning for microturbine aspect of the project.

How we are doing compared to our plan:

Process selection work is proceeding as anticipated. However, as stated previously, the uncertainty regarding the project recommended for funding, may push the deliverable due date for the Process Selection Report back.

Significant problems or changes:

There are no significant fiscal problems to report during this period and work is proceeding within budget. Progress and expenditures will result in project being completed on time and within budget.

What we expect to accomplish during the next period:

Information collection and analysis activities will continue as related to process selection. Activity related to enhanced energy production, gas cleaning and advanced energy recovery will continue. It is anticipated that a planning meeting will be held involving IEUA, Ingersoll Rand and Commonwealth Team staff to more fully identify and evaluate gas cleaning options for this project. It is also planned that a site visit to allow the design team to become familiar with the project and its characteristics will be conducted.

Status of Milestones and Deliverables:

Table 1 below summarizes the status of Project 2.2 task deliverables as of the end of the current reporting period.

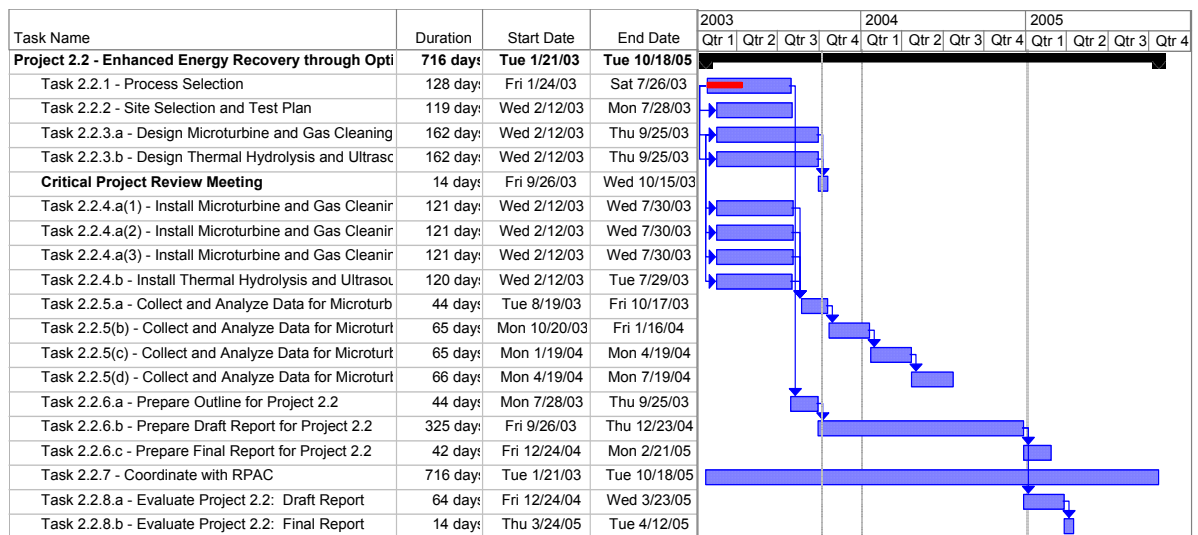
Table 1: Summary of Project Status and Deliverables – Project 2.2

Task No.	Description	Start Date		Due Date		Status (%)
		Planned	Actual	Planned	Actual	
2.2.1	Process Selection	01/21/03	01/24/03	09/04/03		40%
2.2.2	Site Selection and Test Plan	02/12/03		10/26/03		
2.2.3.a	Design Microturbine and Gas Cleaning System	02/12/03		11/24/03		
2.2.3.b	Design Thermal Hydrolysis and Ultrasound System	02/12/03		11/24/03		
2.2.7	Coordinate with RPAC	01/21/03		01/16/06		

Explanation of any Difference(s) in Schedule

Work is proceeding as anticipated, however it is possible that Task 2.2.1’s deliverable date may be revised.

Overall Schedule for Project 2.2:



Overview of Fiscal Status:

Table 2 below summarizes the fiscal status of Project 2.2 by task as of the end of the current reporting period.

Table 2: Fiscal Status by Task – Project 2.2

Task Number	Budget	Invoiced To-Date	Fiscal Status *
2.2.1	\$236,563	\$0	OT
2.2.2	\$182,543	\$0	OT
2.2.3.a	\$242,995	\$0	OT
2.2.3.b	\$215,842	\$0	OT
2.2.7	\$22,557	\$0	OT

*Fiscal Status – Please indicate if you are “On Track” (OT), OverBudget (OB), or UnderBudget (UB)