

- Integration of classified and unclassified supercomputing, visualization and ultra-high speed telecommunications resources to the MESA Complex.

01-02: Special Materials Complex, Y-12

| Fiscal Quarter | | | | Total Estimated Cost (Design Only (\$000)) | Preliminary Full Total Estimated Cost Projection (\$000) |
|--------------------|--------------------|-----------------------------|--------------------------------|--|--|
| A-E Work Initiated | A-E Work Completed | Physical Construction Start | Physical Construction Complete | | |
| 4Q 2001 | 4Q 2003 | 1Q 2003 | 1Q 2006 | 33,583 ^a | 250,000 - 300,000 |

| Design TEC | Previous | FY 2001 | FY 2002 | FY 2003 | Outyears | Design Completion |
|------------|----------|--------------------|---------|---------|----------|-------------------|
| 33,583 | 0 | 7,483 ^a | 17,100 | 9,000 | 0 | 4Q 2003 |

The Department is currently conducting an evaluation of this project to address changes in facility/operations and program requirements, ongoing site planning, the establishment of a new M&O contractor, and funding availability. Project funding profiles have been adjusted to reflect revised project needs, but the Total Estimated Cost of design (with the exception of the rescission as noted) and the Preliminary Full Total Estimated Cost Projection have not been changed pending completion of the evaluation and Departmental approval of any proposed baseline changes.

This design subproject provides preliminary and final (Title I and Title II) A-E services associated with the Special Material Complex at the Y-12 Plant. This Facility will include:

A Seabreeze and Diallyl Phthalate (DAP) production area - The current production equipment for these materials has deteriorated to the point that operational reliability and worker protection cannot be assured.

- A Beryllium facility - The current facility cannot meet the current exposure limits without burdensome administrative controls and personal protective equipment. The new facility will offer state of the art engineering controls to limit personnel exposure.
- A Purification facility- the current facility is a development scale facility incapable of meeting the projected workloads. The Department will reestablish this capability in a new facility with new equipment better suited to meet the current environment safety and health requirements, maintainability, and operational reliability.
- An Isostatic Press - This will provide a collocated press to streamline the production process.

This project is being done in support of the remanufacturing requirements of the future Stockpile Life Extension Programs. Currently the plant cannot meet these goals in the special materials area and this project is needed to provide those capabilities.

^a Original appropriation was \$7,500,000. This was reduced by \$17,000 for a rescission enacted by Section 1403 of the FY 2001 Consolidated Appropriations Act.