

Ultra-Efficient Engine Technology Program

Technical Accomplishment



Dual-Spool Facility Requirements

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Project: Turbomachinery

Relevant Milestone: Dual-spool Facility Requirements for HP/LP turbine validation.
Level III, due 12/30/99.

Accomplishment / Relation to Milestone and ETO: A requirement document describing the detailed technical requirements for design and construction of the Dual-spool facility was completed. The requirement document includes subsystem requirements for power absorption, primary and secondary air flow, structural system, physical size, instrumentation, and facility location. The requirements document was created based on industry/DoD partners need, UEET goals, and availability of the Glenn utilities. When completed, the facility will provide a national asset for testing advanced turbine system to support efficient turbomachinery system development effort.

Future Plans: A contract for detailed design of the facility will be awarded to an outside qualified contractor in the near future. The design is planned to be completed by June 2001.