1 OF 1

Advanced Coal-Fueled Gas Turbine Systems

**Quarterly Report
January - March 1993**

July 1993

Work Performed Under Contract No.: DE-AC21-86MC23167

**For
U.S. Department of Energy
Office of Fossil Energy
Morgantown Energy Technology Center
Morgantown, West Virginia**

**By
Westinghouse Electric Corporation
Emerging Technologies
Orlando, Florida**

UNCLASSIFIED

DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

This report has been reproduced directly from the best available copy.

Available to DOE and DOE contractors from the Office of Scientific and Technical Information, 175 Oak Ridge Turnpike, Oak Ridge, TN 37831; prices available at (615) 576-8401.

Available to the public from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, VA 22161; phone orders accepted at (703) 487-4650.

Advanced Coal-Fueled Gas Turbine Systems

**Quarterly Report
January - March 1993**

Work Performed Under Contract No.: DE-AC21-86MC23167

**For
U.S. Department of Energy
Office of Fossil Energy
Morgantown Energy Technology Center
P.O. Box 880
Morgantown, West Virginia 26507-0880**

**By
Westinghouse Electric Corporation
Emerging Technologies
4400 Alafaya Trail
Orlando, Florida 32826-2399**

July 1993

TECHNICAL PROGRESS REPORT

DATE: July 7, 1993
REPORT NO.: TPR-39

REPORTING PERIOD: Jan. - Mar. 1993

CONTRACT TITLE AND NUMBER: Advanced Coal-Fueled Gas Turbine Systems
DE-AC21-86MC23167

CONTRACTOR'S NAME: Westinghouse Electric Corporation
Emerging Technologies
4400 Alafaya Trail
Orlando, FL 32826-2399

NOTICE

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States nor any agency thereof, nor any of their employees, make any warranty, expressed or implied, or assumes any agency thereof, nor any of their employees, make any warranty, expressed or implied, or assumes any third party use or the Results of such use of any information, apparatus, products or process disclosed in this report or represents that its use by such third party would not infringe privately owned rights.

1.0 SUMMARY

Slagging Combustor

All scheduled tests for the slagging combustor program were completed prior to this reporting period. The draft topical report for the slagging combustor testing was begun in January and the draft submitted to DOE/METC for review in March.

Advanced Turbine Systems - Task 1.3

Work was completed on the ATS Phase I program and the draft topical begun in January. The ATS Phase I draft topical report was submitted to DOE/METC in March. Comments to the report were received back from METC prior to the end of March allowing for the preparation of the final version of the report to begin.

Generic Turbine Studies - Task 12

Conceptual design of a combustion turbine system that can be integrated in a pressurized fluidized bed combustor (PFBC) application was completed at the end of March. An intermediate design review was held in February with METC and a draft of the topical report was begun during the reporting period.

2.0 TECHNICAL PROGRESS

Generic Turbine Studies - Task 12

Details of the individual subtask work for the first generation PFBC combustion turbine system conceptual design are discussed in the "Generic Turbine Design Study Final Report" which was issued June 1993 to DOE/METC.

END

DATE
FILMED

3 / 29 / 94