ACTION TEAM PROGRESS REPORT

Integrated Gasification Combined Cycle (IGCC) Initiative

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Team Leader(s):	Anna Wood, OAR/OPAR Bob Wayland, OAR/OAQPS	
Team Membership:	OAR/Office of Atmospheric Programs; Office of Research and Development; Office of General Counsel	
Environmental Prol	olem:	Cleaner, more efficient means of generating base-load electricity from coal
Technology Challen	ges:	Reliable, online electricity generation from multiple coal types; synthetic gas clean-up; and, capture/sequestration of carbon dioxide (CO ₂)
FY'06 Accomplishm	ients:	 Release of joint EPA/DOE report "Environmental Footprints and Costs of Coal-Based Integrated Gasification Combined Cycle and Pulverized Coal Technologies" (EPA-430/R-06-006, July 2006); Guidance Memo on defining IGCC as Best Available Control Technology, (December 2005); Co-sponsorship of study with DOE, DOD and other interested stakeholders on "The Business Case for Coal Gasification with Co-Production;" Initiation of work group on advanced coal technology under the Subcommittee on Regulatory Innovation and Economic Incentives of the Clean Air Act Advisory Committee; Initiation of work with NACEPT to explore non-regulatory opportunities for EPA to encourage the adoption and deployment of advanced coal technologies.
FY'07 Objectives:	Continue collaboration with DOE's Fossil Energy office on co- production opportunities; continue to work with the Advanced Coal Technology work group and NACEPT on advanced coal technologies; continue work with States and industrial stakeholders to provide permitting and technical assistance (as needed) in connection with the deployment of IGCC technology in the coal- fired electricity generation markets	

Issues: Sulfur removal from synthetic gas upstream of the combined cycle turbine; online/availability of single-train gasifiers for low-rank coals; overcoming the increased capital cost of IGCC versus traditional/conventional pulverized coal.