

Construction Update

Southern Company's Carbon Capture and Storage Demo passed a significant milestone in October – and kept on going.

On October 2, the first shipment of modules left the McAbee construction yard in Tuscaloosa, Ala., traveled down the Black Warrior River by

sorber to a height of 125 feet, well on its way to 230 feet before carbon capture operations start in 2011.

Both the module shipment and the on-site construction mark major milestones as the approximately \$100 million carbon capture



inland barge, and arrived on site at Alabama Power's Plant Barry a few days later. Each module can weigh as much as 300 tons, making river transport an efficient shipping choice.

The first shipment of modules contained equipment associated with carbon dioxide (CO₂) compression and dehydration. McAbee crews raised steel for the CO₂ ab-

unit takes shape at Plant Barry. The plant is alive with some 90 contractors working together with Alabama Power and Southern Company employees.

"It takes a lot of coordination, but I'm proud to say we are on schedule," said Nick Irvin, Southern Company project manager. "Most importantly, we're doing it safely."

What's Next?

The second barge shipment of modules will be shipped via inland barge by early December 2010. Called a "process module" shipment, these modules include CO₂ capture process equipment such as heat exchanger and pumps. Shipment travel time is estimated to take ten days.

It is notable that this shipment date is ahead of schedule, a point that is not lost on Southern Company. "McAbee's continues to compress the schedule and provide savings and productivity to the project," Irvin said.

Before the project's end, McAbee Construction will have fabricated 18 modules that make up the majority of the carbon capture unit's construction.



The 25 megawatt capture unit will tap into Barry Unit 5 post-scrubber. 3.5% of Unit 5's flue gas will be routed to the capture unit.



CO₂ Pipeline

The CO₂ will be supplied to the Southeast Regional Carbon Sequestration Partnership (SECARB) Phase III project, which will transport it by pipeline from the plant and injected 9,000 feet into a saline reservoir located above the Citronelle Oil Field, operated by Denbury Resources. The Citronelle oil field, located within the Citronelle Dome, is located approximately 11 miles from the plant.

Denbury Resources has secured right-of-way along the 11 mile CO₂ pipeline route. Approximately 80 percent of the route parallels an existing utility corridor. Habitat on the right-of-way includes pine forests, which blanket the majority of the path, and a small amount of wetlands. Mitigation is planned for the wetlands. The pipeline will be the first operational CO₂ pipeline in the state of Alabama.

Carbon Capture and Storage Demo - Schedule

