

Texas agency nears permits on 3,400 MW, gas-fired project

The three combined-cycle blocks would be built in phases

09/15/2015 by Barry Cassell

FGE Eagle Pines LLC is nearing issuance by the Texas Commission on Environmental Quality of a State Air Quality Permit, Prevention of Significant Deterioration Air Quality Permit and a Greenhouse Gas PSD Air Quality Permit that would authorize construction of the FGE Eagle Pines Project, a natural gas-fired combined-cycle turbine power plant.

The project site is at New Summerfield in Cherokee County, Texas. The commission said in a Sept. 10 public notice, posted to its website on Sept. 15, that a decision has been made to issue these permits, with comments being taken on that proposed action.

This permitting authorizes six **Alstom** GT36 natural gas fired combustion turbines (CT) each rated at a nominal 321 MW and equipped with a duct burner fired heat recovery steam generator (HRSG). Each CT shaft drives an electric generator and each HRSG supplies steam to a single steam turbine which drives a third electric generator.

The CTs may employ evaporative cooling and/or inlet high fogging for power enhancement. Each HRSG is equipped with natural gas-fired duct burners. The duct burners in each HRSG are limited to a maximum heat input of 799 million British thermal units (Btu) per hour (MMBtu/hr), based on the high heating value (HHV) of the fuel.

The FGEEP Project will include three natural gas-fired combined cycle (NGCC) power blocks, each block comprised of two gas-fired combustion turbines, two supplemental fired duct burners (DBs) heat recovery steam generators (HRSGs), and one steam turbine. Each HRSG is to be equipped with DBs that will have a maximum design heat input capacity of 799 million British thermal units per hour (MMBtu/hr). The CTs and DBs are to be fueled with pipeline quality natural gas.

Each power block will also have a steam turbine generator designed to produce approximately 502 MW with the additional duct firing. Each of the three blocks will include the following ancillary equipment: one multi-cell condenser/cooling tower, one emergency generator, one firewater pump, two diesel storage tanks, and pressurized aqueous ammonia storage tanks. Additional emission sources include fugitives from natural gas and ammonia piping and circuit breakers.

The construction of the first of the three power blocks of the FGEEP Project is planned to begin in the spring of 2016. Construction of the subsequent two power blocks are planned to begin fall of 2016 and winter of 2017. Base load generation of the proposed electric generating facility after all three blocks have been built will be a nominal rating of approximately 3.4 GW.

A project contact is: FGE Eagle Pines LLC, Emerson G Farrell, CEO and President, (281) 407-7749.

That is contact information for **FGE Power**. The company's [website](#) shows that the twin, 747-MW (each) FGE Texas 1 and 2 projects are being developed in Mitchell County, Texas, but doesn't show the FGE Eagle Pines project.

ABOUT THE AUTHOR

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Barry Cassell is Chief Analyst for *GenerationHub* covering coal and emission controls issues, projects and policy. He has covered the coal and power generation industry for more than 26 years, beginning in November 2011 at *GenerationHub* and prior to that as editor of SNL Energy's *Coal Report*. He was formerly with *Coal Outlook* for 15 years as the publication's editor and contributing writer, and prior to that he was editor of *Coal & Synfuels Technology* and associate editor of *The Energy Report*. He has a bachelor's degree from Central Michigan University.

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