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**Abstract:**

In September 1986, the Fuels Branch of the Aero Propulsion Laboratory at Wright-Patterson Air Force Base, Ohio, commenced an investigation of the potential of jet fuel production from the liquid by-product streams produced by the gasification of lignite at the Great Plains Gasification Plant (GPGP) in Beulah, North Dakota. Funding has been provided by the Department of Energy (DOE) Pittsburgh Energy Technology Center (PETC) to administer the experimental portion of this effort. This document reports the results of the effort by Burns and Roe Services Corporation/Science Applications International Corporation (BRSC/SAIC) to analyze GPGP operations and develop correlations for the liquid by-products and plant operating factors such as coal feed rate and coal characteristics. Turbine fuel, JP-4, JP-8, Great plains gasification plant, Tar oil, Crude phenols, Naphtha, Jet fuel, By-product production. (JES)

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