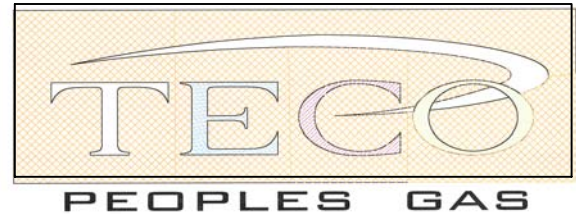




Environmental Consulting Services

27-Mile Pipeline along Jacksonville-St. Augustine Corridor

Client: *TECO Peoples Gas*
Project: *27-Mile Pipeline*
Location: *Duval and St. Johns County, Florida*
Timeline: *April-November 2000*



P&A CONSULTING ENGINEERS (P&A), Inc., provided environmental assessment of the proposed 27-mile pipeline corridor and analysis of regulations and permitting issues relative to placement of the pipeline for the pipeline expansion project, which extended southwest from existing lines in Jacksonville to meet the development project at The Neighborhoods, a planned community at World Golf Village. The pipeline will align within the right-of-way of various county and state roads. Numerous wetlands are located along this pipeline route.

P&A's services to Peoples Gas included environmental review of design plans, field assessment, and coordination with environmental agencies, including those of St. Johns County, Florida Department of Environmental Regulation, and U.S. Army Corps of Engineers, on permitting issues and alternatives to minimize environmental impacts and permitting constraints.

Particular concern with stream crossings involved boring under streams, hanging pipeline from bridges, placing pipeline in the median, and evaluating jurisdictional wetlands for areas of directional drilling to avoid impacts. Contract services were extended to the development of erosion and sediment control plans as part of the construction drawings and P&A's engineering design services for the proposed pipeline corridor.



P&A Consulting Engineers, Inc.

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