



AGL Resources

Atlanta, GA
ESRI ArcFM
Landbase & Gas Facility Data Migration

Client: Atlanta Gas Light Resources

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Size of the Service Area: 3,459 sq. miles

Customers: 1,800,000

Dollar Amount of the Contract

Proposed: \$99,040

Actual: \$149,189 (\$50,149 additional scope)

Detailed description of the services provided and formats of deliverables:

As subcontractor on the Atlanta Gas Light Resources (AGLR) project, ASI was responsible for the data migration services are part of a larger GIS replacement project. ASI's project scope included migrating landbase and gas distribution asset records for Atlanta Gas Light Company (AGLC) and Chattanooga Gas Company (CGC) from GeoMax to ArcFM.

A major part of the challenge with the gas facilities migration was to affect a fundamental change to the AGLR network model from the GeoMax node-node model to the ArcFM node-edge model. For cost and schedule reasons, this change had to be accomplished without any manual intervention, and AGLR required a 100% connected distribution network.

ASI performed a comprehensive data audit to help AGLR understand what information was present in their GeoMax system. ASI then led a migration specification workshop that served as a forum for discussing how the source GeoMax attributes would be mapped into ArcFM. The migration specification workshop set the stage for a collaborative approach to the data migration process. ASI and AGLR management and technical staff worked in close concert to ensure that the requirements, specifications, and techniques for the migration were clearly articulated and closely controlled.

ASI received the GeoMax data from AGLR in MapInfo MID/MIF format. The data were converted into ESRI Shapefile format, and subsequently into ESRI Coverage format as raw source data. Once in raw Coverage format, the data were pre-processed, attributes were mapped from GeoMax into their ArcFM analogs, and then ASI undertook the complex geometric processing necessary to migrate from the old GeoMax network model.

GeoMax network nodes and their relationships to mains, fittings, and valves were used to facilitate the creation of a logical connectivity model that was then used to create a physical connectivity model. In the end, ASI visited over one million network nodes, stitched together new gas distribution and cathodic protection networks composed of over 500,000 valves and fittings, and achieved the 100% connectivity requirement demanded by AGLR. The project was completed in 2002.

Project Status

Started: December 2001

Completed: September 2002