



Software Services

▶ Gas High Consequence Area (HCA) Analysis

- Pipeline specific GIS analysts identify sites/structures surrounding a pipeline network.
- Then, using the PetrisWINDS® GasRule Tool, identify segments in the pipeline network that meet the criteria for HCA's as defined by the United States Department of Transportation (US DOT) HCA Rule (49 CFR Part 192, §192.761).
- Results from this analysis are pipeline segments that can be loaded into a pipeline data model.

▶ Class Location Study

- Pipeline specific GIS analysts identify housing densities surrounding a pipeline network.
- Then, using the PetrisWINDS® Class Location Tool, pipeline segments are classified according to parameters in Section 192.5 of Title 49 of the US DOT Code of Federal Regulations.
- Results from this analysis are pipeline segments that can be loaded into a pipeline data model.

▶ One Call Ticket Analysis (Analytical Tool Kit, ATK)

- Pipeline specific GIS analysts use One Call databases, which have latitude and longitude assigned to each ticket.*
- The threat of third party invasion analysis defines density levels of One Call ticket occurrences.
- Pipeline networks are ranked and segmented according to different density thresholds.
- Results from this analysis are pipeline segments that can be loaded into a pipeline data model.

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Regulatory Compliance Services

- ▶ **Permit Filing**
 - Texas Railroad Commission (T4)
 - National Pipeline Mapping System (NPMS)
- ▶ **DOT Audit Preparation**
- ▶ **Regulatory Compliance Documentation**
- ▶ **Data Conversion and Data Capture Services**
 - Pipeline Centerline Mapping
 - Structured and Unstructured Data Conversion
 - Data preparation for database migration, integration, or loading
 - Data standardization using customized pipeline patrol forms
 - Design of GPS data capture procedures
- ▶ **Data Model Analysis, Design, Implementation, and Loading**
 - Analyze conceptual data models
 - Evaluate workflow analysis to fit pipeline data models
 - Evaluate existing geospatial data sets for inclusion in pipeline databases.
 - Implementation of workflow process for database population and maintenance.
 - Data loading services for defined data models.

* The PetrisWINDS® OneCall Screening Support System Version 3.9 creates a latitude and longitude for each geocoded ticket.