

Class Locations Gas & Liquid HCA Analysis

ENHANCE PIPELINE SAFETY WITH
COMPREHENSIVE COMPLIANCE TOOLS

USER FRIENDLY

INCREASE CONFIDENCE

MINIMAL TRAINING

Calculate the pipeline Class Locations (49 CFR 192.5), High Consequence Area Locations (49 CFR 192.903) and determine Regulated Gathering Lines (49 CFR 192.8).

Novara GeoSolutions (Novara) compliance tools have a positive impact on safety by providing users with flexible and user-friendly compliance tools built around federal regulations. The approval workflow for each tool is simple: review; approve; and update. Each analysis uses data through Esri ArcGIS using points and polygon feature classes either individually or both at the same time. Novara's Class Location calculation tool uses a one mile sliding window and the data stored in the pipeline database. There is the ability to run a standard mile calculation or clustering calculation, utilizing attributes of structures to drive each analysis. As results are generated you can view them as a graphic on a map and/or as tabular data. The Gas HCA Analysis calculates the High Consequence Area (HCA) ranges using either Methods 1 or 2 (or both); including potential impact circle (PIC) calculation and PIC inclusionary analysis. The Liquid HCA Calculator utilizes pipe data, spill plume data in conjunction with the DOT HCA data sets to calculate Direct, Indirect and Potential HCA impacts along the pipe centerlines. These tools are vital to monitoring the growth of class and HCA regulated segments along your assets over time.

These comprehensive tools provide 'what if' analysis so users can create different scenarios. This may be important for new route planning, forecasting and to know the possible impacts for new construction. The 'what if' analysis also allows for comparative runs so operators can compare data year to year. Additionally, users can export a snapshot of their data to a geodatabase in preparation of an audit. Within the HCA tool, all of the components (subranges) are saved as it does the calculation and rolls it up into the results. This will give users visibility into why changes in HCA levels are made.

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Save valuable time

If there are no changes throughout the year then you don't need to run the analysis. However, if there are changes, keeping track of them throughout the year can be cumbersome and tedious. Novara's Class & HCA tools alleviate this challenge with its built-in Smart Route Selection. This feature has the intelligence to know which routes and lines need the analysis and which ones don't and this saves you valuable time.

Account for the unknown

The HCA tool allows users to add tolerances to each calculation so results are more conservative and allows operators to account for the unknown. The Class calculation tool allows users to quickly run preliminary calculations which can be used for capital planning. Within each tool the approval process is simple. Data is placed into a holding sandbox and users can compare grid differences and compare results from past years. If you don't agree with the results, users can explore why the results are appearing the way they are.

One source of truth

Eliminate the need to maintain several databases. Novara's Class & HCA tools run their analysis and calculations against the enterprise database. This lowers the level of effort and reduces the amount of time it typically takes to run these calculations. This seamless

integration allows you to modify and approve data in one central area which increases operational efficiency. These tools also include a set of robust reporting capabilities and predefined reports that communicate the results of the analyses. Additional reports can be customized and created quickly and easily.

Run multiple calculations at once

Users save crucial time by running MAOP calculations at the same time as the Class calculations are generated. The MAOP calculator incorporates the federal and state requirements and interfaces directly with PODS. It can be run in a line by line or a batch mode. Users can view all input criteria and the results of each phase of the calculation to ensure accuracy. The results will highlight any areas that are out of compliance.

Compliance services available

Let Novara's team of compliance experts run the calculations and analysis for you! Our team can help with your Regulatory Compliance Audits, provide Consultation, O&M/OQ Planning, Integrity Management Guidance and MOP/MAOP validation support.

ADVANTAGES

- > Compatible with PODS data model
- > Export to excel or a pdf map
- > Export a 'snapshot' to a geodatabase so you are prepared for an audit
- > Both tools are user-friendly and training is minimal
- > Conveniently run individual or batch modes for multiple routes at the same time
- > HCA analysis supports two methods and stores the unique IDs (on range) within each area
- > The reporting and results interface has many options, such as grid, map, excel, map to pdf functions

CALL US TO LEARN MORE ABOUT IMPROVING YOUR COMPLIANCE TOOLS!