

# Liquids High Consequence Area (HCA) Analysis

ENHANCE PIPELINE SAFETY WITH  
COMPREHENSIVE COMPLIANCE TOOLS

USER FRIENDLY

INCREASE CONFIDENCE

MINIMAL TRAINING

**Assess each hazardous liquid pipeline that could affect a high consequence area in accordance with requirements prescribed in U.S. CFR Title 49 Part 195.452 Pipeline Integrity Management in High Consequence Areas.**

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. Our liquids high consequence area (HCA) analysis has a simple workflow: 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. The Liquid HCA Calculator utilizes pipe data, spill plume data in conjunction with commercially navigable waterways, high population areas, unusually sensitive areas, and other 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 HCA regulated segments along your assets over time.

This comprehensive tool provides a 'what if' analysis that lets users create different scenarios. This may be important for new route planning, forecasting, and knowing 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 affected HCA levels are made.

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## Increase preparedness

The HCA tool allows users to add tolerances to each calculation, so results are more conservative and allows operators to account for the unknown. 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 have tools to explore why the results are appearing the way they are.

## One source of truth

Eliminate the need to maintain several databases. Novara's 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.

## Comprehensive analysis and services

Let Novara's team of compliance experts run the calculations and analysis for you! Our team can help with your regulatory compliance audits, integrity management support, geospatial services, staff augmentation, and technology solutions. We can include Emergency Flow Restriction Device (EFRD) analysis in order to determine optimal valve placement and enhance preparedness safety plans for population and environmental risks.

## 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, and map to PDF functions

**CALL US TO LEARN MORE ABOUT IMPROVING YOUR COMPLIANCE TOOLS!**