



# DIGITAL SOLUTIONS

Helping our clients improve the efficiency and effectiveness of their operations and support the compliance, safety and reliability of their assets.





(781) 982-7700

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## WHO WE ARE

### Managing your assets efficiently, cost-effectively, and accurately

CHA is a highly diversified consulting, technical services and geospatial-based software firm. For more than 30 years, CHA has specialized in asset management, risk and integrity management, regulatory compliance and in-the-field operations. Our comprehensive scope of regulatory compliance, and integrity management solutions help operators improve their operations and support compliance with federal and state regulations. Our clients see success in operational improvement, efficiency gain, and overall cost reduction.

Our digital solutions team works hand-in-hand with engineers and technical specialists, providing our clients with a robust pool of resources. CHA's reputation is further extended by our best-in-class partnerships and relationships, including Esri, the world's leading GIS provider, and Microsoft, offering the industry best-in-class apps and powerful cloud technology.

## WHAT YOU NEED

### Preparing for today and tomorrow

Your company needs to manage assets efficiently, cost effectively and accurately today, not tomorrow. Whether you are just beginning or already have a complex system, CHA has dynamic end-to-end solutions and services that will empower you to meet project goals. Our talented team is driven by customer satisfaction and offers the industry experience and technical expertise to tackle any project, large or small.

Our solutions, consulting and services are built around current and anticipated compliance regulations, field safety measures, and your organization's internal needs. We utilize web-based maps, dashboards, desktop applications, and mobile field solutions to give each level of management visibility into asset data so you can make informed decisions. Our holistic suite of services and software provides critical support for asset management, engineering and design, regulatory compliance, risk and integrity management, staff augmentation, and field operations. Our goal is for you to do more with less.

**A LARGE NORTH  
AMERICAN PRESENCE  
& OVER 30 YEARS OF  
SUCCESS IN:**

Gas Distribution

Transmission Pipelines

Midstream &amp; Gathering

Transportation

Railways

Water &amp; Wastewater

Storm Water

Construction



## THE IMPACT

### Leaving a legacy of safety

Our affordable and scalable solutions allow you to take complex projects, simplify the output, and make it understandable to general users. We automate tasks, so your job is easier. Our technology solutions run the gamut for:

- Asset Data Maintenance & Management
- Regulatory Compliance Management
- Risk & Integrity Management Support
- Enterprise Portals for Query & Reporting
- Situational & Operational Awareness
- Mobile Computing Solutions for Field Activity Management

The implementation of our off-the-shelf, configurable solutions, consulting, and other services helps manage asset life cycle, while improving the efficiency and effectiveness of client operations.

## WHAT WE OFFER

### Making difficult decisions easier

CHA is proud to support you with a lengthy list of end-to-end services and solutions to support your safety and compliance goals.

## A snapshot of CHA Solutions & Services

### Safety Management Systems

- Evaluation & Gap Assessment - Alignment with API RP 1173
- SMS Maturity Assessment & Improvement Road Mapping
- Implementation Guidance & Support

### Regulatory Compliance Services

- Regulatory Compliant & Industry Best Practice Program Templates
- Program Auditing
- Program Development & Update
- Federal, State & Local Reporting
- Outsourced Program Management

### Regulatory Compliance Solutions

- Class Location Assessment
- HCA Analysis
- Pipeline/Facility Records Review, Interpretation & Validation
- MAOP/MOP Validation, Verification & Reporting
- ILI Data Input & Alignment
- ILI Data Driven Pipeline Routing Adjustment

### Engineering, Design & Construction

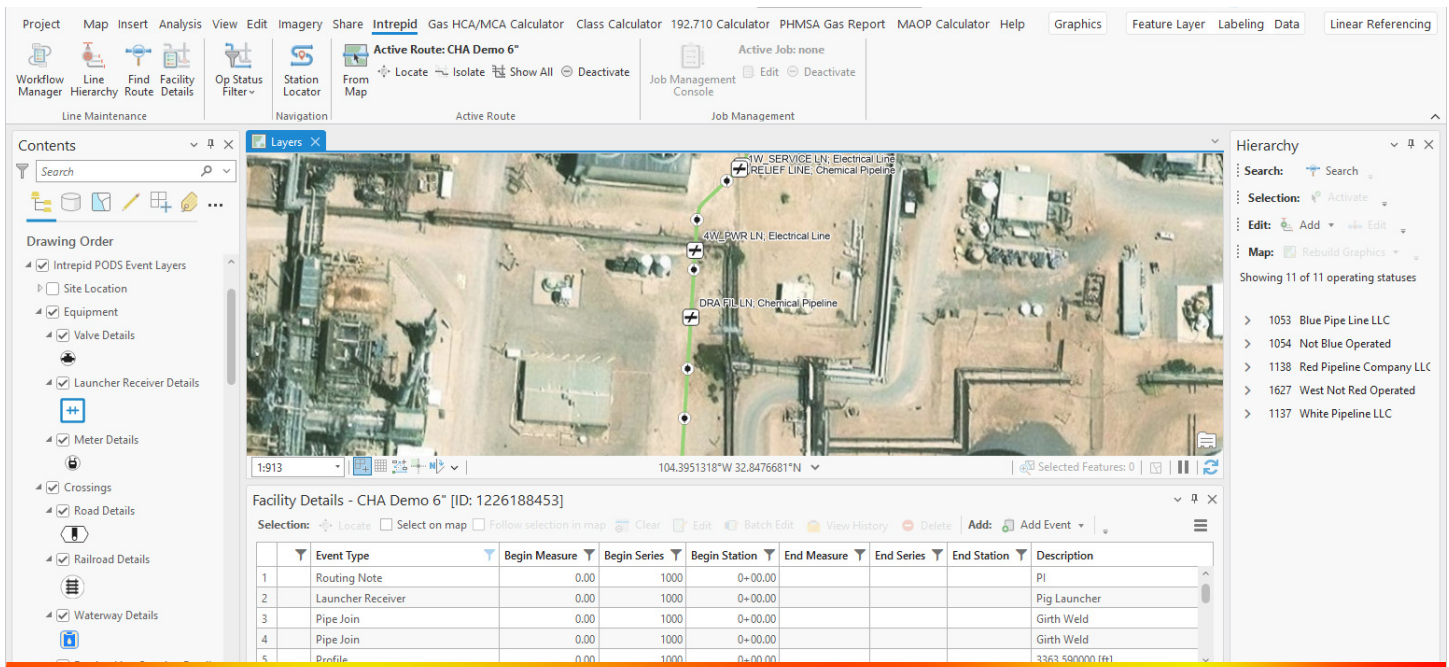
- Feasibility Studies
- Line Routing & Siting Studies
- Environmental & Government Permitting
- Pipeline/Facility Design
- Construction Administration & Inspection
- As-built Documentation

### Field Operations

- Field Data Surveys, Data Collection & Reporting
- Leak Survey, Investigation & Repair Support
- Compliance Inspection Management
- Field O&M Activity Support

### General Geospatial Services

- Data Modeling & Data Model Migration
- Data Integration, Management Strategies
- GIS Implementation
- Data Conversion
- Data Update & Maintenance
- Map Production
- CADD Support



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## INTREPID® for ArcGIS Pro



### Unlock the Full Potential of Your Pipeline Data with Intrepid® for ArcGIS Pro

Accurate, accessible information is essential to safely operate pipelines and drive profitable performance. CHA's Intrepid® platform connects users with the data, analytic tools, and institutional knowledge needed to make high-impact decisions that shape the future of their organizations.

### Purpose-Built for the Pipeline Industry

Intrepid® for ArcGIS Pro is a robust, enterprise-grade geospatial platform tailored specifically for oil and natural gas pipelines — from upstream to downstream operations. It supports critical functions such as:

- Pipeline centerline editing and lifecycle data management
- TVC documentation management
- HCA/MCA and Class location analysis
- MAOP calculations
- ILI data management

The latest version functions as an Add-in for ArcGIS Pro, giving users the best of both worlds: Intrepid's linear referencing capabilities alongside ArcGIS Pro's rich geospatial features.

- ✓ Easy, Flexible Deployment
- ✓ Eliminate Data Redundancies
- ✓ Refine and Improve Processes

## Advantages

- Fully integrated with ArcGIS Pro
- Centralized interface for multiple enterprise system integrations
- Bulk data loading and intuitive editing tools
- Best-in-class route management (reroutes, replacements, abandonments)
- Seamless management of engineering stationing and continuous measurements
- Integration with CHA's full suite of regulatory compliance tools
- Supports Traceable, Verifiable, and Complete (TVC) documentation
- Easy document linking (photos, reports, drawings) to individual pipeline components

Request a demo today to see how Intrepid® can streamline your operations and empower your team.

### Compliance and Efficiency Made Easy

Stay current and compliant with government regulations using Intrepid's intuitive interface and automated tools. Mapping and GIS team members can confidently maintain data and follow user-friendly workflows. Intrepid® helps reduce risk by automating complex data maintenance tasks and enabling proactive identification of high-risk areas through integrated data analysis.

Use Intrepid® for:

- Asset and compliance data management
- Regulatory reporting
- Querying and mapping
- Streamlined construction and operations support
- Full lifecycle management of pipeline assets

### Maximize Your Existing Investments

Intrepid® integrates seamlessly with your existing PODS database and enterprise systems like SAP and Maximo — without needing reconfiguration. You can upgrade to the latest technology while preserving the investments you've made in backend systems, risk analysis tools, and corrosion monitoring applications.

### Built for the Field and the Office

Whether you're in the field or at a workstation, Intrepid® is designed for efficiency:

- Data is entered once, and always available — reducing redundancy and increasing accuracy
- Supervisors and technicians benefit from configurable, task-based workflows
- Field users gain direct access to asset information and maps
- Custom workflows can be tailored for planning, engineering, operations, compliance, integrity management, and more

### Seamless Integration with Esri Technology

As an Esri Gold Partner, CHA ensures that Intrepid® works together with Esri's powerful mapping tools.

CHA's team acts as your single point of contact for both Esri and CHA technologies, providing comprehensive support.



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## INTREPID<sup>®</sup> Work In Progress Extension

**Increase your data confidence and know your data is traceable, verifiable and complete**

- ✓ Easy To Use
- ✓ Streamlines QA/QC
- ✓ Driven by Metrics

The Intrepid<sup>®</sup> Work In Progress (WIP) extension adds an extra layer of comprehensive review while editing pipeline data.

It is a big deal for a company to review data before it is released to production as the “official data for the system of record.” Parallel test/development databases can be maintained for this purpose; however, they can easily get out of sync and take an enormous amount of time to maintain. Alleviate all these concerns with the Intrepid<sup>®</sup> WIP extension. It allows simultaneous transactions to streamline tasks, plus it keeps a complete history log for data retrieval. Users will perform both long transactions (takes an extended time to complete before committing to production) and short transactions (committed to production immediately) within a sandbox for editing and verifying data. Most importantly, users can perform the edit sessions in the context of a job or work order, which reduces the learning curve and simplifies steps. Transactions can include centerline edits or maintenance activities like reroutes and replacements. In a few easy steps, users can edit, manage, review, approve, map, and create audit logs for each transaction.

## Advantages

- Point-in-time comparisons can be quickly generated
- Roll back centerline geometry to specific points in time
- View the data spatially
- Easily assign other users or supervisors for certain tasks
- Integrates with PODS data model
- Support for long and short transactions

Contact us today for a personalized demo of this powerful tool

### Built to fit your needs

Edit sessions follow your job or work order process. During edit sessions, users have the ability to lock routes during major centerline edits so that active changes aren't accidentally overwritten. Plus, at any time during an edit session, users have the ability to roll back edits, ensuring database integrity.

### Use your corporate data standards

During the approval process, a data validation engine processes data edits and confirms the edits meet corporate data standards. These customizable data validation rules strengthen data quality so the data is consistent, functional and error-free.

### Fully manage your team and your data

Intrepid® WIP's easy-to-use Job Management Console keeps users task-oriented. Through the job management console, users can create, edit, track, and report on jobs. Intrepid® WIP allows User Groups to be defined and feature-based permissions can be assigned to each User Group, which extends security within the PODS data model.

### Track, trace and defend your data at all levels

A complete audit history is accessible. This gives users improved data insight and risk management, increasing data security and fulfilling record-keeping requirements for compliance purposes. All edit sessions are linked back to their originating work orders, and the complete life cycle of each job is tracked with status, time stamps and user credentials. Important information, such as who made the change, who authorized it, exactly what changes were made, etc., are all trackable.

### Eliminate resource constraints

CHA offers a wide range of services including spatial analysis and mapping services, GPS field data collection, alignment sheet generation, geospatial database design and implementation, data loading and validation, consulting and web-based GIS application development, and more. CHA can be an extension of your team so you can get projects completed quickly!



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## INTREPID® PODS DataLoader

### Quickly and easily import pipeline data and centerlines into PODS

- ✓ Increase Efficiency
- ✓ Streamline Workflows
- ✓ Save Time

The Intrepid® PODS DataLoader provides users with an easy-to-use interface to quickly import pipeline centerlines and pipeline data sets into an existing PODS environment.

CHA offers this extension to save time by allowing users to configure and save import settings to use on future data loads. It also includes detailed import logs that provide critical information about each data import session, so users can track and preserve the data for backup. This flexible environment allows a variety of file types to be used and enables the user to easily map source data fields to PODS destination fields in a couple of quick clicks. Designed for ease of use, the Intrepid® PODS DataLoader contains an automatic data validation pre-process that ensures all data is validated, list values are checked, and geographic information is defined before the import into PODS begins. This extension is accessed from the workflow manager in the Intrepid® Asset Management System so there is one centralized screen to work from.

## Advantages

- PODS 4.02 or higher compliant data model
- Oracle and SQL Server compliant
- Batch updates all required geographic feature data sets
- Batch imports data from text files, Excel files, Access or other ODBC compliant data connections
- Provides option to easily update code lists during import for users with proper security credentials
- To be used with Intrepid® Asset Management System

Call us today for a  
live demo of this  
robust tool!

### Correct, consistent and useful data

Guarantee that your data is accurate and consistent before it is put into your PODS database by performing a simple data validation pre-process check. This comprehensive process will validate all required fields, check code list values, validate station information, and check to see if the geographic information is within a defined tolerance of the destination route.

### Effectively and dynamically manage data

Line-route management is stress-free with the Intrepid® PODS DataLoader. Users have the ability to dynamically generate and maintain PODS line hierarchy and route associations based on source data. Users can also quickly create centerlines from Series and Station, Absolute Stations (measures), and/or coordinate data (lat/long or projected).

### Streamline data loading tasks

This flexible tool allows users to import multiple PODS feature types at once and import data sets on to multiple destination routes at once, which saves you time. It also streamlines the data loading tasks by allowing users to import data by station series, absolute station, or geographic location.

### Know your data inside and out

It is critical to know where your data came from and the metadata associated with it. With the Intrepid® PODS DataLoader, users can easily create and manage log files. The detailed import logs record the user, date and time of imports. The logs include import settings, source data connection, and destination data connection information. They also include import data set statistics, record counts, and validation results so that the user knows everything about the data.



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## MAOP Calculator ArcGIS Pro Add-in & Services



### Calculate, validate and report on your pipeline pressures for safe operations

- ✓ Precise Results
- ✓ Establish an Audit Trail
- ✓ Stress-Free Reporting

Use our MAOP Calculator for ArcGIS Pro for determination, validation and reconfirmation to improve the overall integrity of pipeline systems and to reduce risks, including natural gas transmission pipelines, compressor stations, regulator stations, and other critical facilities.

CHA brings to the operator an enhanced MAOP Calculator for onshore steel transmission pipelines. This calculator improves and streamlines (with great accuracy and fully auditable) the process by which MAOP is calculated, validated, and reported, giving operators a sense of security in knowing their pipelines meet federal requirements. The calculator has built-in logic to address pipeline components including the ability to assess fittings based on ANSI ratings, as well as fittings that can be modeled much like line pipe. Operators have the ability to readily generate operational and regulatory reports depending on their needs. Operators have the choice to use the calculator integrated into Esri ArcGIS Pro as a simple to install add-in or take advantage of CHA MAOP Services. Our services allow you to focus on day-to-day operations while CHA defines the MAOP and dives into the complex details encompassing everything from document research, and field validation so your data is traceable, verifiable and complete.

Introduction  
Intrepid

Intrepid Work In Progress  
PODS DataLoader

**MAOP Calculator**  
Gas HCA/MCA Calculator

192.710 Calculator  
PHMSA Gas Reporting

Class Calculator  
Corrivo

## Advantages

- Database agnostic
- Built-in engineering and industry best practices
- Reliable and industry accepted
- Establish a full audit trail within your GIS
- Readily generate operational and regulatory reports
- Choose between software or service

Contact us to  
calculate, validate  
and accurately report  
pipeline pressures  
today!

### ArcGIS Pro Add-in is easy to use and flexible

The MAOP Calculator ArcGIS Pro add-in can be executed on a line-by-line basis or configured to run in batch mode and calculate the MAOP for hundreds of miles of pipeline in a single process. It can analyze pipe segments and will flag those which require MAOP reconfirmation under §192.624. The user can view output results both graphically and tabularly with easy-to-understand symbology to allow quick analysis of results.

### Quick yet thorough reporting

The MAOP Calculator has a robust reporting engine that allows engineers to quickly view all the input criteria for the calculator as well as the results of each phase of the calculation process. Reports can be produced in Excel for further review and analysis and include a comprehensive summary section that details the limiting factors for the selected pipeline. Reports are formatted to follow the American Gas Association recommendations.

### Proven successful & comprehensive

Users appreciate how the MAOP Calculator ArcGIS Pro add-in can flag potentially non-compliant pipe segments and fittings both graphically and tabularly, making it easier to identify overall risk. It is fully integrated with Esri ArcGIS Pro which makes it database agnostic, and can use any data source that can be loaded by ArcGIS Pro.

### Comprehensive MAOP services

CHA's experts provide our natural gas pipeline clients MAOP services, so they don't have to deal with the calculations. Services include validation of historical data to prove validity and document research to ensure proper document research is represented. We also provide data updates within our clients' established record keeping system and engineering review and issue resolution to confirm pressure calculations from attribute data on file. We work directly with regulatory agencies to determine the correct support data and perform field validation of pressure tests and validate pipeline attributes.

### Eliminate Resource Constraints

CHA offers a wide range of services including spatial analysis and mapping services, GPS field data collection, alignment sheet generation, geospatial database design and implementation, data loading and validation, consulting and web-based GIS application development and more. CHA can be an extension of your team so you can get projects completed quickly!



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## Gas HCA/MCA Calculator ArcGIS Pro Add-in



### Improve data confidence and produce reliable data that is traceable, verifiable, and complete

- ✓ Stay Compliant
- ✓ Built-In Validation Tools
- ✓ Fully Integrated with ArcGIS Pro

This tool is flexible, user-friendly, and built around federal regulations.

CHA Gas High and Moderate Consequence Areas (HCA/MCA) Calculator for ArcGIS Pro can help operators increase data confidence and produce data that is traceable, verifiable, and complete. This ArcGIS Pro tool calculates both high and moderate consequence areas along an operator’s pipeline in accordance with Federal Regulatory compliance requirements prescribed in U.S. CFR Title 49, Part 192, SubPart O, Sections §192.3, §192.5 & §192.903 (dated October 1, 2019). Users can run each analysis separately or simultaneously.

There are several innovative built-in validation tools to allow users to validate results and have confidence in the final determination. For example, a Potential Impact Circle (PIC) tool allows users to click and drag along the pipeline while the tool draws a circle representing the PIC in that area. This allows you to easily see which structures are in or out of the PIC at any given point, even when the PIC changes. A separate structure impact tool highlights all structures that contributed to a HCA or MCA determination.

## Advantages

- Graphical representation of HCAs and MCAs in their geospatial context
- MCA results integrated with HCA analysis
- Complete summary reporting
- Easy to use with a low learning curve
- Produce results that are defensible

Save countless hours  
by running multiple  
analyses at the  
same time!

### Integration with Esri's ArcGIS Pro brings several advantages:

Users can run multiple analyses over the same area with different inputs to perform a "what if" analysis and compare the results side by side. Use ArcGIS Pro's filtering and selection tools to control which lines or segments of the system you want to analyze.

The Gas HCA/MCA Calculator for ArcGIS Pro creates several intermediate output layers in the geodatabase, allowing users to follow the calculation of an HCA or MCA all the way from structures and roads, through overlapping sub-ranges to the final determination. Each layer is linked to other layers, so you can use ArcGIS Pro's built-in data navigation tools to follow the relationships from end to end.

### Gas HCA/MCA Calculator for ArcGIS Pro Benefits:

The calculator is database-agnostic, working through ArcGIS Pro against any supported map layer data source, from local file geodatabases to enterprise geodatabases, or even feature services. The built-in validation tools allow users to validate the results quickly and easily. Plus, the calculations are defensible and improve overall TVC efforts. One of the biggest benefits is this tool will help users visualize risk which can help prioritize work.

### A picture is worth one thousand words

There are a variety of ways within this tool that the user can visually see why the data is producing a HCA or MCA. For example, the structure impact feature allows for graphical validation for controversial areas. It allows a quick and easy way to visualize the data and validate it. Users can even use gradients to visualize hotspots and vary the symbology by attribute.



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## 192.710 Calculator for ArcGIS Pro



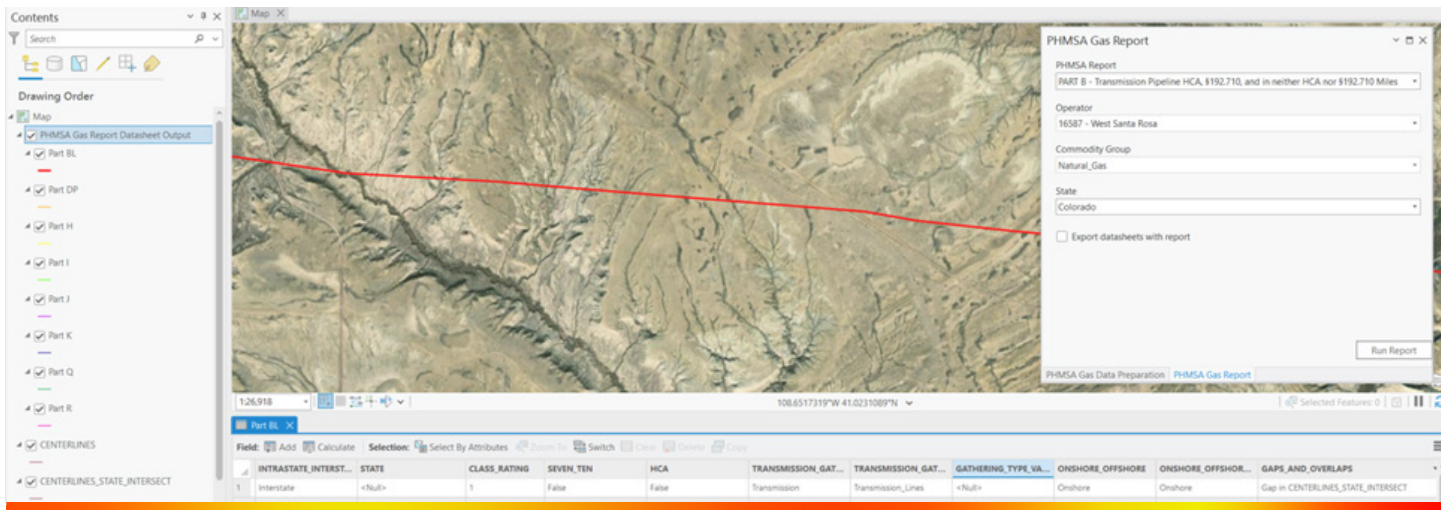
**Provides a convenient, repeatable method to determine which areas of the pipeline meet the PHMSA criteria.**

- ✓ Fully trackable results
- ✓ Repeatable process
- ✓ Easy to use

Our 192.710 Calculator for ArcGIS Pro was developed to help gas transmission pipeline operators easily identify and verify pipeline sections which require periodic assessment. It has fully configurable settings and input layers so that you can achieve precise results within these measures and defend your conclusions within audits.

Our 192.710 Calculator for ArcGIS Pro has a streamlined design and incorporates Where Clauses that allow you to define exactly what data to include for each portion of the analysis. Like definition queries, an interface is provided to assist with creating these Where Clauses to keep the learning curve low. The calculator's dynamically segmented output layers provide users with valid reasons why reconfirmation may or may not be required. The results of the analysis are in native ArcGIS Pro feature classes, which allow Esri's comprehensive suite of geospatial tools to be applied as needed. The results can be easily translated into formats required for annual PHMSA reporting.

The 192.710 Calculator for ArcGIS Pro can be combined with CHA's additional Esri ArcGIS Pro add-ins, such as US Class, Gathering Class, Gas HCA/MCA, and MAOP Calculator to provide users a powerful set of tools to produce repeatable and defensible results.



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## PHMSA Gas Reporting for ArcGIS Pro



**It's a simple yet powerful tool and can save you time when doing submissions.**

- ✓ Reusable config files
- ✓ Output matches PHMSA
- ✓ Saves time

Our PHMSA Gas Report for ArcGIS Pro is designed to help save time and simplify the process of submitting the annual PHMSA reports for natural gas pipeline operators. The PHMSA Gas Reporting for ArcGIS Pro was developed in accordance with the federal regulatory compliance requirements prescribed in the “Gas Transmission and Gathering Annual Report Form F 7100.2-1 CY 2022 and Beyond”. This tool provides a convenient and repeatable method to generate PHMSA reports. By having accurate data, this tool could help operators improve their overall integrity and asset management plans before incidents occur.

The tools’ flexibility allows users to run a report on a single route or against an entire system and it outputs dynamically segmented layers for each reporting part. The reports include information such as total pipeline mileage, facilities, commodities transported, mileage by material, and installation dates, etc.

An important time-saver feature is the attribute tables include a column for gaps and overlaps. Users can easily zoom to, verify, and clean up data errors. Pinpointing gaps and overlaps in the data are crucial so that it can be corrected before the submission takes place.

Seamlessly integrated within ArcGIS Pro, this robust tool brings automated pipeline compliance know-how directly to your geospatial data. It is fully configurable and can adapt to a wide variety of data inputs. Users will need a Standard ArcGIS Pro license or higher to run an analysis and output the results to the output feature classes.



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## Class Calculator ArcGIS Pro Add-in



### Defendable U.S. and Canadian Class analysis results that users can rely on

- ✓ Built-In Validation Tools
- ✓ Fully Integrated with ArcGIS Pro
- ✓ Fully Configurable

Easily compare different Class results, from different years, along a pipeline and quickly locate areas of Class change.

CHA provides this ArcGIS Pro add-in to calculate and validate class location areas in the United States and Canada in accordance with the regulatory and safety requirements for successful gas pipeline operation. This Class Calculator for ArcGIS Pro is designed in accordance with U.S. 49 C.F.R §192.5 and for Canada, CSA Z662-19. Users find the results are defendable and they can easily save the settings for reuse, comparisons, and auditing purposes. Advanced class location analysis logic, such as structure-by-structure validation or visual sliding class assessment unit (e.g., one mile), makes this a perfect tool for those needing to run class analysis on their assets.

This flexible tool has the ability to save, re-use, and share analysis configurations. The U.S. Class tool allows users to run a standard sliding class calculation with or without clustering, utilizing attributes of structures to drive each analysis. The users can define exactly what data to include for each portion of the analysis and only the features that meet the criteria specified will be used. The Canadian Class tool was developed in coordination with top CSA experts so that it would meet or exceed the CSA Z662-19 requirements. As results are generated for either US or Canadian pipelines, users can view them as a map and easily export the data.

## Advantages

- Defendable results saved for on-demand analysis and audits
- Ability to calculate both U.S. Class and Canadian Class
- Optional clustering for U.S. assets
- Provides a quick view of continuous sliding assessment unit
- Configurable data export
- Calculations are consistent, repeatable and defendable
- Database agnostic
- Includes interactive visual validation tools
- Ability to save, re-use, and share analysis configurations
- Output layers allow users to see results in a variety of ways
- Layer styles save time with formatting outputs and make results easy to understand
- Compare results and identify areas of Class change

### Integration with Esri's ArcGIS Pro brings advantages:

The integration with ArcGIS Pro provides a variety of benefits, such as a clear and comfortable user experience, the ability to easily export the results in standard Esri formats, and the ability to leverage ArcGIS Pro's built-in filter and selection tools. Through this filtering, the users can drill down to validate results. Another huge advantage is that users can bring this tool in-house, versus paying a vendor, to lower out of pocket costs.

### Class Calculator for ArcGIS Pro benefits:

The built-in validation tools give users the confidence they are meeting federal requirements. This tool is database-agnostic, working through ArcGIS Pro against any supported map layer data source, from local file geodatabases to enterprise geodatabases, or even feature services.

The Class Calculator for ArcGIS Pro is designed to streamline the workflow process wherever possible. Powerful analysis tools are also provided to understand, verify, and interpret the analysis results. Users can run multiple analyses over the same area, with different inputs, to perform a "what if" analysis and compare the results side by side.

This Class tool can manage a large number of pipeline data sets and manage data for multiple pipelines. Users have the ability to select an entire pipeline, line segments, or specific areas they want to run an analysis. Clients report they appreciate having the flexibility to select one route or thousands of routes for analysis.

Calculations are consistent, repeatable, and defendable.

Contact us today for a personalized demo of this powerful tool



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# Corrivo

- ✓ Eliminate Paperwork
- ✓ Improve Field Activities
- ✓ Streamline Workflows

## CORRIVO

**Assign, monitor, and manage your compliance, routine O&M operations and other field work... quickly, easily and efficiently!**

Corrivo helps companies successfully execute surveys, such as leak surveys and aerial patrols, in a defensible and trackable manner. It's proven to improve data quality assurance through error reduction.

Corrivo allows users to manage and assign fieldwork, complete multiple types of field activities (leak surveys, aerial patrols, etc.) and view program performance. From office to field, this solution ensures users can easily schedule surveys plus access, collect, report and map data. Corrivo has a low learning curve and its updated interface makes it simple to use in the office and field. Using an easy to understand map, field crews can capture and record field observations in real-time and then quickly and easily sync to the system of record. In addition, using a simple yet powerful management portal, executives can quickly assess the state of their organization or programs and use the information to make safe, informed decisions with real-time data. If needed, it can be integrated with an existing work management system, as well as your detection equipment, so only one system is used.

This map-based solution is integrated with Esri ArcGIS Enterprise and offers support for IOS devices and the Windows platform. Its ability to support multiple work activities makes this solution extremely flexible. Clients use Corrivo to set up aerial patrol activities to identify possible leaks, construction activity, and areas of erosion. The leak survey activities can be set up to allow field users to log safety issues, area of concerns, and classify leaks. The work manager can easily assign follow up work for an investigation and easily verify the work has been completed.

## Advantages

- Gain critical insight into field activities and eliminate paperwork
- Integrate with existing work management systems and GIS environment
- Quickly assign and complete a variety of field tasks
- Work in connected and disconnected modes
- GPS integration and the use of breadcrumbs
- Provides analysis of field productivity
- Attach and annotate photos
- Interactive mapping
- Integrated mobile solution
- Reporting through tabular reports
- Easily track billable items

Improve safety ratings and decisions by incorporating Corrivo into your workflow!

### Traceable, verifiable and complete

Capture the regulatory information needed to protect the organization in case of an event. This solution gives users control to prioritize surveys and report on their process, and it enables support for all field operations, maintenance and 49 CFR Part 192 compliance work. This customizable solution allows for quick assigning and reassigning of crews and the review of data. By eliminating paperwork, users often see data improvements and increased productivity with this automated system. It also reduces overall project costs by ensuring surveys are 100% complete.

### Identify trends and devise new management strategies

The management portal is a web-based application that allows an organization's leader to see exactly what is happening inside the organization to make informed and actionable decisions. Executives can proactively view critical metrics, identify trends, and devise new management strategies. Through this, supervisors and executives can see leak survey program statistics, track field personnel or individual leaks, and monitor day to day activities. The views are fully customizable so that executives can focus on what is important to them.

### Eliminate resource constraints

CHA offers a wide range of services, including spatial analysis and mapping services, GPS field data collection, alignment sheet generation, geospatial database design and implementation, data loading and validation, regulatory consulting, web-based GIS application development, and more. CHA can be an extension of your team so you can get projects completed quickly!

### Consistent and high-quality data from the field

Eliminate paperwork and empower field crews to capture data in a way that makes sense to them! All the information is right in front of them on this Esri-based field solution, which makes taking paper into the field obsolete. Field crew performance will improve because work is clearly listed and forms walk them through the information they need to collect. They can sort assignments by date or volume of work and drop pins for leak indications.

### Increase your ROI by maximizing your existing systems

With Corrivo, there is one fluid process that integrates with your ERP/EAM, WMIS, MMS, CIS/COS, GIS, and EDMS systems. This solution simplifies the workflow and works with your existing systems, so you get the most out of your investments. It features a seamless two-way interaction between the field and corporate back-office systems of record.

## CONNECT WITH US

Informed decisions come from the ability to access accurate data

There are a number of ways to reach out to CHA. To learn more about us, visit our website at [chasolutions.com](https://chasolutions.com). From there you can subscribe to our newsletter, learn more about our digital solutions, and request a software demo.

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## CONTACT US

Schedule a personalized demo by calling us directly

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(781) 982-7700

[chasolutions.com/solutions/digital-solutions](https://chasolutions.com/solutions/digital-solutions)