



## Staff Augmentation & Outsourcing

DO MORE WITH LESS

IMPROVE EFFICIENCY & EFFECTIVENESS OF OPERATIONS

CONTROL & REDUCE OPERATING COSTS

A reliable solution for operators who have had to cut back on staff and resources yet are required to produce more

**CHA Integrated Solutions (CHA) can serve as an extension to your engineering, compliance, integrity and GIS teams so you can meet your operating needs and get projects completed quickly and efficiently.**

Today's oil and gas industry is faced with unprecedented market, regulatory and operational challenges. Compounding these challenges, many operators have had to scale back staff and/or cut training and resource development, and in many cases, they need to run lean. They recognize that there will be more to do, and given the expected loss in experience and critical skills from a nearly 50% turnover in the current pipeline industry workforce over the next 5 to 7 years; they need to reconcile how to manage an increased operational and compliance obligation with fewer personnel and with less experience among those responsible for doing so.

Responsibly Improving  
the World We Live In



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CHA, in conjunction with our subject matter experts (SMEs), has the capability, industry experience, regulatory know-how, and resourcing availability to help operators fill this void. We have a more than 30-year history and proven track record providing consulting, technical services and geospatial-based software solutions for asset management, integrity management and regulatory compliance. In doing so, we have completed numerous projects and worked with hundreds of operators of crude oil, refined products and other hazardous liquid pipelines; natural gas pipelines; and regional and local utilities. We have also furnished these operators with temporary short-term and longer-term resourcing, have outsourced certain operational responsibilities, and have provided discipline specific expertise and staffing to augment their compliance, asset and integrity management departments.



## ADVANTAGES

- > Reduces operating costs
- > Offsets internal staffing constraints and shortfalls
- > Services offered on an “on-call, as-needed” basis
- > Improves compliance and integrity management effectiveness and efficiency
- > Direct and immediate access to regulatory expertise, industry benchmarking and best practices

**LEARN HOW NOVARA CAN BE AN EXTENSION OF YOUR TEAM BY CALLING US TODAY!**

## Staff Augmentation & Outsourcing

### Eliminate resource constraints

Operators can offset internal staffing constraints and shortfalls through CHA’s support services. These services are offered on an “on-call, as-needed” basis; through dedicated on-site resourcing or under a collaborative outsourcing arrangement, where we serve as an extension to the operator’s asset, compliance, and integrity management teams.

### Direct and immediate access to regulatory expertise, industry benchmarking and best practices

Where necessary and appropriate, our resources, and the operators they are supporting, have an Advisory Group consisting of leading industry personnel that have the credibility and knowledge to provide guidance and high-level best practice solutions to meet the operator’s problems. They also have access to:

- Serving public, private and institutional clients worldwide. With more than 1,300 professional staff and 40 offices globally, CHA offers a diverse range of services and serves several business sectors, including infrastructure, buildings, power and fire protection service with each of those sectors consisting of targeted business lines. CHA’s markets incorporate the firm’s major clients groups: Government, Industry, Utility, Education and Commercial Development.
- An SME Select Team consisting of a list of independent sub-contractors from throughout North America with pre-established contract agreements in place that can be called upon to provide key elements of project support and to provide CHA resource balancing flexibility.
- Comprehensive suite of software applications for asset data management; data alignment, input and integration; planning, engineering, and design support; regulatory compliance; integrity management; operational awareness/decision support; and mobile solutions for field operations.

## OUTSOURCING & STAFF AUGMENTATION SERVICE OFFERINGS

- Regulatory Compliance Advisory Services
- Integrity Management Program Improvement
- Compliance General Support
- HCA/MCA Analysis
- Class Location Analysis
- Liquid & HVL HCA Impact Analysis
- Overland Spill Analysis
- Air Dispersion Analysis
- Water Transport Analysis
- MAOP Calculation/Validation
- Pipeline Records Interpretation & Validation
- GIS & Mapping Services
- Data Management & Integration Strategy
- ILI Data Management, Integration & Analysis
- Operational Improvement
- Pipeline SMS Implementation & Assessment
- Management of Change
- Professional Field Services
- Asset Management Consulting

