



PIPELINE PRESSURE TEST SERVICES

RCP's personnel have established themselves as industry experts, designing, implementing and validating pressure test programs for various operators. RCP can help you prepare for the pending integrity verification regulations that will soon mandate pressure tests for operating gas and liquid pipelines that have not previously been subjected to pressure tests.

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Anchorage
Baton Rouge
Charlotte
Denver
Knoxville
Oklahoma City
Tulsa

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Pressure Test Consultation Services

RCP offers Pressure Test Workshops that teach you how to plan for a pressure test from start to finish, and how to determine/prove if the test was successful. Additionally, RCP can provide the following services:

- Pressure test engineering design services
- Review, comment, advise and provide recommendations regarding an existing pressure test standard and/or prior pressure test records.
 - RCP has developed a comprehensive checklist that identifies critical elements of a pressure testing standard and associated records. This checklist can be used to identify gaps or areas in need of improvement.
- Review upcoming test plans for specific pipeline segments, provide feedback and commentary for any suggested improvements.
- Participate in pressure testing strategy and implementation planning

Pressure Test Validation

RCP provides on-site quality control and validation services for pipeline pressure testing. The purpose of this validation is to provide an independent review and analysis of each pressure test and to validate whether the test met all of the criteria required within an operator's pressure testing standard as well as 49 CFR Part 192 Subpart J Test Requirements. RCP's proprietary test validation model can be used for any type of pressure test allowed under pipeline regulatory code. This includes all types of gas and hazardous liquid pipelines. It allows for spike testing and the use of water, nitrogen, air or gas as the test medium. Typically, the major elements of this service include the following:

- RCP captures data in advance of the test from approved drawings and test procedures provided by the client.
- Client provides RCP with access to the test site, including deadweight tester, pressure recorder, temperature recorders, ambient thermometer, electronic dew point meter, flow meters and other equipment necessary to validate the pressure test.
- RCP captures data necessary to validate the test (ex. pressure, temperature, volume, injection/withdrawals, equipment calibrations, photographs, etc.).



PROFESSIONAL ENGINEERS. REGULATORY EXPERTS. TRUSTED PARTNERS.

RCP is a registered professional engineering corporation with extensive experience in all types of pipeline risk management and regulatory compliance consulting. Our comprehensive range of services includes: integrity management, compliance assurance program, training, and risk management, as well as implementation assistance and ongoing, long-term support.

- Once the test is complete, RCP provides a comprehensive written report that provides all of the necessary detail whether the test met the requirements of 49 CFR Subpart J Test Requirements.

TestOp®

The software that RCP utilizes for Pressure Test Validation is now available to license. The license allows operators to create, plan, simulate, execute, document, and generate comprehensive reports of pressure tests using a web-based platform with optional offline data upload capabilities. TestOp® can provide the peace of mind that your pressure test is valid. It can confirm the test is acceptable and meets code requirements BEFORE taking the pipe segment “off test.” This application can also indicate pipe yielding or air entrapment DURING a spike test. It can indicate when a pin-hole leak has likely occurred by knowing the pressure/temperature relationship of the system. TestOp® can also QA/QC the test report for completion and accuracy. And to finish out your pressure test, TestOp® will auto-generate pressure test reports that are “traceable, verifiable and complete.” This application will also store and document all your pressure tests and their final test reports for all time. This software requires no downloads and the training to use TestOp® is part of the package. Some key features of TestOp® include:

1. TestOp® can be used for the following types of Pressure Tests
 - a. 49 CFR 192 Subpart J Test Requirements
 - i. Gas transmission
 - ii. Gas distribution
 - iii. Regulated gas gathering
 - b. 49 CFR 195 Subpart E Pressure Testing
 - c. ASME B31.3 Process Piping, Section 345 Testing
2. Allowable test mediums
 - a. Water
 - b. Nitrogen
 - c. Air
 - d. Natural gas
3. Applications for TestOp®
 - a. New construction
 - b. Repairs & replacements
 - c. Upgrades
 - d. Class Location change requalification
 - e. Conversion of service
 - f. Integrity / MAOP verification
 - g. Grandfathered pipe
 - h. Spike / elevated pressure testing
 - i. Pipeline integrity assessments, including ASME B31.8S, Table 3
 - j. Pipe with unknown yield pressure

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