

LABORATORY TESTING INC.

Proof-load Testing the Largest Samples So Far

Proof-load testing is a daily event at Laboratory Testing Inc., even testing samples that require our largest tensile machine, the 400,000 lb. (400K). The 24-inch PVC well casing and coupling assemblies we recently tested for CertainTeed were the largest samples tested for physical characteristics so far, and provided LTI with a challenge to fit them to the 400K testing machine.



Well casing joint assembled for proof-load testing to destruction

These 24-inch well casings are a new large-diameter addition to CertainTeed's Certa-Lok™ product line and are used primarily in vertical water well projects. Multiple lengths are connected using a fiberwound coupling with a spline-locking design, which forms a full-strength joint without solvents, arc welding, or reinforcement screw attachments.

Before introducing the new product, CertainTeed needed to test the strength of the casing's coupling and spline joint to confirm that it could hold lengths of pipe together in a vertical position up to 1,200 feet underground. The most reliable method of determining the maximum pull strength or weight limit the joint could withstand was to perform a proof-load test to destruction. Special fixtures were created to hold this large assembly in place on both ends of LTI's 400K tensile machine. Once everything was in place, the machine was enclosed in heavy plastic to contain any pieces that broke during testing.

CertainTeed's project engineer, Kris Pietruczynnik, observed the testing and said the company was anticipating a proof-load of 160,000 lbs.



24" well casing and coupling with spine-locking design

or better to confirm that the product would perform to expectations. During the test, the load reached 179,000 lbs. before any movement occurred in the joint. CertainTeed received more good news when the test was repeated on another assembly with a slightly higher result.

LTI has been doing testing for CertainTeed's smaller diameter PVC casing for many years with successful results.



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LAB NEWS



This year, LTI is celebrating its 25th Anniversary. We've been serving customers since 1984 and



Mike McVaugh, President

have truly enjoyed working with such a wide-range of businesses from so many different industries. You challenge us with your unique needs and requirements, and that keeps our business interesting.

Twenty-five years ago, my father, Robert McVaugh, Sr., started Laboratory Testing Inc. as a commercial nondestructive testing (NDT) lab with 20 employees. Through training, expansion, relocation and investment in technology, LTI has become a 66,000 sq. ft. full-service materials testing, NDT and calibration laboratory. We've grown to 117 employees and work with companies throughout the Americas and Europe. Our driving force is the desire to meet our customers' quality, service and turnaround needs, so they can do their jobs well.

I thank all of you for your continued business and support. We also appreciate that so many of you have referred new customers to us. You've helped make LTI what our company is today. A special thank you goes out to Carson Helicopters, Rex Heat Treat, B&G Manufacturing and Tioga Pipe Supply, who have been with LTI for these 25 years.

Radiography Lets You Know What's Inside

Industrial Radiographic Testing (RT) or X-ray Inspection, uses highly penetrating X-rays to create a permanent visible film record of a material's internal condition without damaging the item. The process provides basic information to determine the soundness of the material and is used for the following purposes:

- ◆ Locate internal discontinuities such as shrinkage, cracking and porosity in products and parts
- ◆ Verify the integrity of internal components
- ◆ Determine the quality of welds



X-ray tube in 20 ft. x 20 ft. Radiography Vault

The need for these services can occur during product research and development, as part of the manufacturing, fabrication or installation process or when the product is purchased for future use.

Inspections at LTI

At LTI, our NDT certified technicians perform nearly all radiography in our large-capacity 20 ft. x 20 ft. radiography vault, but also work with a cabinet camera for small products. Customers send materials in a wide-range of shapes and sizes for X-ray inspection, including castings, weldments, machined parts and electronic components. Our high-capacity forklifts and cranes safely handle materials weighing up to three tons and our X-ray equipment can penetrate up to 4 1/2 inches of steel. For products outside of this scope, we can subcontract your order to one of our approved vendors.

All inspection results are evaluated by our certified NDT Level II and Level III technicians and customers receive the details of all findings in their Certified Test Reports.

More Tradeshows in 2009

We hope to see you at one of our stops around the country.

June 9-11, 2009
Medical Design & Mfg East
New York, NY
Booth: 2668

June 28-July 1, 2009
PowderMet 2009
Las Vegas, NV
Booth: 408

October 6-8, 2009
South-Tec Expo
Charlotte, NC
Booth: 8077

November 15-18, 2009
Fabtech Int'l & AWS Show
Chicago, IL
Booth: 12109

December 8-10, 2009
Power-Gen International
Las Vegas, NV
Booth: C1-761

Growing Leadership Team Keeps LTI Running Smoothly

Substantial growth in the volume of testing orders and the number of employees processing the workload prompted the promotion of long-term employees to manager and supervisor positions

Rich Goodwin, former Nondestructive Testing (NDT) Supervisor, was promoted to NDT Manager. In addition, supervisors were appointed in each of the NDT Department's key service areas – ultrasonic testing (UT), magnetic particle inspection (MP), liquid penetrant inspection (LP), X-ray inspection (RT) and hydrostatic pressure testing.

Former NDT Manager, Mark Tierney, became Technical Sales Manager, a new position for LTI. Mark will work closely with customers to provide technical education, quoting, order coordination

and recommendations for services to meet their specific needs.

Both our Chemical and Mechanical Testing Departments have expanded their second-shift workforce, which led to two promotions. Shirley Aravich was chosen for the new position of second-shift Chemistry Supervisor. Frank Adornetto was appointed Mechanical Testing Supervisor on the first shift, after supervisor, Steve Bowers, moved to the second shift.

Their e-mail and phone information is available at www.labtesting.com/contact.php.



Mark Tierney
Technical Sales Manager

Don Meyers
LP Supervisor
NDT Level II LP, MP, RT, VT



Kevin Burton
X-ray Supervisor
NDT Level III RT; Level II VT



Shirley Aravich
Chemistry Supervisor

Rick Stuart
MP Supervisor
NDT Level II MP, LP, VT



Rich Goodwin
NDT Manager
ASNT National Level III
LP, MP, VT



Steve Walmsley
UT Supervisor
NDT Level II UT



Frank Adornetto
Mechanical Testing Supervisor



Zach Byers
Hydro Supervisor
NDT Level II LP, MP, RT, VT

LAB NEWS

6 Steps for the Best Service & Turnaround

- ◆ List complete details of each order on requests for quote (RFQ) and purchase orders (PO).
Include the specific type & number of services ordered, quantity and detailed description of items in your order, required specifications or standards, and any special requirements.
- ◆ Reference your quote # on your PO.
- ◆ Same day, 24-hour and 48-hour Rush services are available.
If expedited service is required, please ask for a quote and include the specific turnaround ordered on your PO and on the outside of your shipment to LTI.
- ◆ Include name, e-mail & phone information for all contacts involved with the order on your PO to speed processing or resolving questions.
- ◆ Provide an adequate amount of material for destructive testing (refer to our Material Size Requirements sheet).
- ◆ Review results as soon as they are available.
Request e-mail certifications. Also sign up for e-mail notifications or online order tracking, *lti live update*, to check on the status of your orders.

Ask for a copy of these and other helpful Guidelines or review them on our website at www.labtesting.com/resources.php.



2331 Topaz Drive, Hatfield, PA 19440

Contact LTI

LABORATORY TESTING INC.

2331 Topaz Drive
Hatfield, PA 19440

Phone: 800-219-9095

Fax: 800-219-9096

E-mail: sales@labtesting.com

Web: www.labtesting.com

Holiday Closings

LTI will be closed for the following
holidays this summer:

Independence Day - Friday, July 3

Labor Day - Monday, September 7

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