



## INSERVICE INSPECTION PROGRAMS TRAINING

### 10CFR50.55a and 50.69 Engineering Programs, ASME Code, BPV Section XI, and Augmented Inspection Programs

#### Inservice Inspection Programs Training July 22-26, 2019

True North Consulting will be conducting Engineering Programs Training courses the week of July 22, 2019 in Montrose, CO, focusing on Regulatory and Code driven Inservice Inspection related programs.

The course is comprehensive covering both introductory bases and detailed requirements and is intended for Engineering Programs personnel that are responsible for developing, implementing, and maintaining Inservice Inspection, Risk-Informed Inservice Inspection, Containment Inspection, System Pressure Testing, Repair/Replacement, and other related Augmented Inspection Programs. Course details are provided below with additional information available at the provided links.

#### Courses Content / Structure

Managing a power plant's various Engineering Programs requires an in-depth understanding of the Regulatory and Code requirements, of the typical parts that comprise an efficient/compliant Program, and of the types of tools needed to optimize implementation and controls of the Program. This course is designed to provide an initial overview of Inservice Inspection (ISI) Programs and the governing Regulations and ASME Code, BPV Section XI, as well as typical related augmented and owner inspection programs. Detailed requirements for Inservice Inspection, Risk-Informed ISI, Containment Inspection, System Pressure Testing, and Repair/Replacement programs will be covered. Regulatory requirements and guidance documents are discussed, key components of a thorough program are reviewed, and comprehensive practical applications and examples are presented in an interactive manner.

The curriculum has been designed to meet common student needs - regardless of experience level. Daily modules are organized to be topic area specific for various program owner duties.

- Day 1: Module 1: Introduction to Inservice Inspection of Nuclear Power Plant Components
- Day 2: Module 2: ASME Code, BPV Section XI, Inservice Inspection (ISI) of Class 1, 2, and 3 Components, and Risk-Informed Inservice Inspection (RI-ISI) Applications
- Day 3: Module 3: ASME Code, BPV Section XI, Repair/Replacement Activities for Code Classed Nuclear Power Plant Components
- Day 4: Module 4: ASME Code, BPV Section XI, Containment Inservice Inspection (CISI) of Class MC and CC Metal and Concrete Containment Components
- Day 5: Module 5: ASME Code, BPV Section XI, System Pressure Testing (SPT) of Class 1, 2, and 3 (1/2 Day) Pressure Retaining Components and Buried Piping

A course syllabus and additional information are available at: [www.tnorthconsulting.com](http://www.tnorthconsulting.com)

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## Important Information:

1. Attendees should bring an electronic and/or hardcopy of the 2017 Edition of the ASME Boiler & Pressure Vessel Code, Section XI, Division 1.
2. Training material will be available for download prior to the course. Please bring a Laptop, Tablet, or Notebook to follow the course materials. If you would like a hard copy version of the material, please specify on the registration form.

## Specific topics covered in this training include the following:

- Background, history, and overview of the Inservice Inspection related Programs
- Federal Regulations and the use of Section XI Code, Code Cases, and Interpretations
- Regulatory Requirements including Conditions, Prohibitions, and Limitations
- Seeking Relief from 10 CFR 50.55a and Section XI Code Requirements
- Risk-Informed Inservice Inspection Program Options, Applications, and Optimization
- Introduction to 10 CFR 50.69 Alternate Treatment Options and Implementation
- Licensing Bases and Augmented Inspection Programs
- Classification of Components for Application of Section XI Requirements
- ISI Program Development Process and 10-Year Interval Implementation, Closeout, and Updates
- Program Plans and Schedules, Program Support Documents, and Program Tools
- Program Controls, Ownership, and Maintenance
- Interface with other Engineering Programs (e.g., OM Code, App. J Leak Rate Testing, Buried Piping)

## Schedule

July 22-26, 2019

*Monday:* 7:30 a.m. – 4:30 p.m.

*Tuesday:* 7:30 a.m. – 4:30 p.m.

*Wednesday:* 7:30 a.m. – 4:30 p.m.

*Thursday:* 7:30 a.m. – 4:30 p.m.

*Friday:* 7:30 a.m. – 11:30 a.m.

Lunches will be catered and beverage service provided during scheduled breaks.

*NOTE: The course starts at 7:30 am on Monday morning and completes near mid-day on Friday. We recommend arrival on Sunday or sooner and departure on Friday evening. Often students choose to extend their stay over the weekends and enjoy the many recreational and sightseeing options offered in the greater Montrose, CO area.*

[Montrose](#) , [Telluride](#) , [Ouray](#)

## Pricing

\$2695/person (All Training Modules)

Attendees can also elect to sign up on an ala carte basis for an individual training module(s) at the following prices:

Module 1:	\$900	Module 4:	\$700
Module 2:	\$700	Module 5:	\$500
Module 3:	\$700		

## Training Facility

[Holiday Inn Express \(Montrose\)](#)

1391 S. Townsend Ave., Montrose, CO 81401

## Accommodations

True North Consulting has reserved a block of 10 rooms at the Holiday Inn Montrose at a rate of \$99.00 per night. The phone number for the Holiday Inn is 970-240-1800. When you call, mention that you are coming for the True North Training Course to ensure the discounted rate.

## Course Qualifies for Continuing Education Units (CEU)

Each attendee will receive a Certificate of Completion for 3.6 Continuing Education Units (CEU) credits to qualify for 36 Professional Development Hours (PDH) needed to fulfill Professional Engineers' continuing education requirements. The credits will be awarded without authorization. It is the attendee's responsibility to keep and present the certificate to any organization that requires such.

## Instructors

Dan Lamond - Senior Manager, Specialty Engineering  
[dlamond@tnorthconsulting.com](mailto:dlamond@tnorthconsulting.com)  
630-728-4615

Mr. Lamond has more than 30 years experience in the nuclear power industry, and has extensive experience in the development, management, and implementation of various regulatory, industry, owner, and ASME Engineering Programs, including application of licensing and regulatory requirements, Risk-Informed and Risk-Based initiatives, Inservice Inspection and Testing, and aging management programs. Mr. Lamond serves as the Vice Chair of the ASME Committee on Nuclear Inservice Inspection (Section XI), as the Chair of the Task Group Buried Components, as the Chair of the Technical Interpretation Committee, and is an active member of a number of subordinate committees reporting to Section XI such as the Working Group RI-ISI Activities and the Working Group Pressure Testing.

Mark J. Ferlisi, P.E. – Senior Consultant, Specialty Engineering Programs  
[mferlisi@tnorthconsulting.com](mailto:mferlisi@tnorthconsulting.com)  
704-650-3229

Mr. Ferlisi has worked in the nuclear power industry for more than 37 years, with more than 25 years experience in the development, management, and implementation of ASME Section XI Inservice Inspection and Repair/Replacement Programs for Duke Energy Corporation. Mr. Ferlisi is an active member of the ASME Committee on Nuclear Inservice Inspection (Section XI), serves as the Chair of the Section XI Working Group on Inspection of Systems and Components, as the Chair of the ASME Board on Nuclear Codes and Standards Task Group on Regulatory Endorsement, and is an active member of the ASME Board on Nuclear Codes and Standards and other subordinate committees and task groups. Mr. Ferlisi is a previous member of the Section XI Working Group on Containment and was responsible for developing inservice inspection programs for metal and concrete containments at Duke Energy plants.

Gene Navratil - Senior Consultant, Specialty Engineering Programs  
[gnavratil@tnorthconsulting.com](mailto:gnavratil@tnorthconsulting.com)  
717-808-1061

Mr. Navratil has worked in the nuclear power industry for more than 40 years, with extensive experience in the development, management, and implementation of ASME Section XI Inservice Inspection and Repair/Replacement Programs. He has several years as a plant ISI, R/R, CISI, and SPT Program Owner Engineer, and also was the Exelon fleet Engineering Inspection Programs lead for many years prior to becoming an industry consultant. Mr. Navratil has strong experience in NDE and materials based programs. Rounding out his industry involvement, Mr. Navratil is an active member of the ASME Committee on Nuclear Inservice Inspection (Section XI), serves as the Chair of the Section XI Subgroup on Water-Cooled Systems, and is an active member of subordinate committees reporting to Section XI such as the Task Group on Risk Informed Categorization and Treatment.

## Questions

*We'd love to hear from you with any questions about our courses!*

*For more information, contact Pam Gilroy or Mark Ferlisi*

Pam Gilroy  
970-252-1489

[pgilroy@tnorthconsulting.com](mailto:pgilroy@tnorthconsulting.com)

Mark Ferlisi  
704-650-3229

[mferlisi@tnorthconsulting.com](mailto:mferlisi@tnorthconsulting.com)

## Registration

Please register by 5 p.m. Friday, June 7, 2019. After this date, please contact Pam Gilroy to confirm availability. There are four easy ways to register!

1. E-mail: Complete the following form and send as an attachment to: [pgilroy@tnorthconsulting.com](mailto:pgilroy@tnorthconsulting.com)
2. Website: [www.tnorthconsulting.com/training\\_registration.php](http://www.tnorthconsulting.com/training_registration.php)
3. Fax: Complete the following form and fax to 970-252-1837
4. Mail: Complete the following form (along with check or credit card information) and mail to Pam Gilroy, True North Consulting, 150 Merchant Drive, Montrose, Colorado 81401

**Please register by June 28, 2019**

**General Information**

Name:

Job Title:

Company:

Nuclear Plant:

Work Telephone:

Cell Telephone:

Email:

Course Material:  Check here to request a hard copy of the course presentation material.

**Course Registration**

Training Modules 1 through 5 (\$2695)

*Or, Select Individual Modules Below*

- Module 1: Introduction to Inservice Inspection of Nuclear Power Plant Components (\$900)
- Module 2: ASME Code, BPV Section XI, Inservice Inspection (ISI) of Class 1, 2, and 3 Components, and Risk-Informed Inservice Inspection (RI-ISI) Applications (\$700)
- Module 3: ASME Code, BPV Section XI, Repair/Replacement Activities for Code Classed Nuclear Power Plant Components (\$700)
- Module 4: ASME Code, BPV Section XI, Containment Inservice Inspection (CISI) of Class MC and CC Metal and Concrete Containment Components (\$700)
- Module 5: ASME Code, BPV Section XI, System Pressure Testing (SPT) of Class 1, 2, and 3 Pressure Retaining Components and Buried Piping (\$400)

**Payment Information**

Check one form of payment:  CREDIT CARD or  CHECK # \_\_\_\_\_  
 Visa  MasterCard  American Express  Other

Card #

Exp. Date:

Cardholder Name:

Credit Card Billing Address

Signature:

Cardholder's Email Address/Phone Number:

- *Remittance of payment is due one week prior to the first day of training.*
- *Receipt for payment will be emailed to you as your confirmation.*
- *If your company or another party will be compensating True North Consulting for your registration fee via check or credit card, please include a contact name, number, and email address of the person responsible.*
- **All information shall remain confidential.**

If you have any questions about registering, please call 970-252-1489 or email [pgilroy@tnorthconsulting.com](mailto:pgilroy@tnorthconsulting.com)  
 Check our website for updated training information and schedules:  
[www.tnorthconsulting.com](http://www.tnorthconsulting.com)