



**PGI**  
**PALMER GROUP INTERNATIONAL**

## *TRUE NORTH CONSULTING, LLC* *ISTD Snubber Program Training*

**ISTD Snubber Training**  
**June 19 & 20, 2019**

In response to requests from the industry, True North Consulting will be conducting a training course in Chattanooga, TN on the programmatic approach to the implementation of the ASME OM Code, Subsection ISTD, Preservice and Inservice Examination and Testing of Dynamic Restraints (Snubbers) in Light-Water Reactor Nuclear Power Plants. This training program is particularly appropriate for IST or new Snubber program managers who feel a need to understand more fully the requirements of an ISTD Snubber program and the process of transition from an Owner controlled snubber program to ISTD. Course duration is two days and is scheduled for June 19 & 20, 2019. Course descriptions and associated details are listed below with additional course information available through the links provided.

### **Course Summary**

#### **COURSE CONTENT / STRUCTURE**

The course content and approach are structured for IST and Snubber Program Owners and Engineers and is focused on the following key areas:

- Historical regulatory and Code background overview
- The process of transitioning the Snubber Program to the ASME OM Code
- Guidance to and development of present-day Program structure
- Historical programmatic hurdles – including resources – and industry resolutions
- Concepts in continuity between Examination, Testing and Service Life Monitoring
- Failure analysis and performance trending
- DTPG and FMG management and the utilization of resulting trending data
- Current issues with emphasis on industry/Code initiatives and solutions

The ISTD Snubber course objective is to establish a clear understanding of the ISTD Program and its implementation in accordance with the requirements of the Nuclear Regulatory Commission, 10 CFR50.55a and the ASME O&M Code, Division 1, Section IST. Important evolutionary developments of snubber programs are reviewed and analyzed with focus on improvements and emphasis on seamless program and personnel transitions, owners' responsibilities, and examination, testing and monitoring plans.

This training course is divided into separate sessions to concentrate on the unique requirements of and the continuity between Examination, Testing, and Service Life Monitoring requirements. Detailed and interactive discussions during each session will focus on correct and effective applications of technical requirements and efficiency to minimize excessive demands on resources.

The Course is designed to provide for an efficient program that is expediently adopted by the novice as well as the seasoned owner.

ISTD Training Introduction

Links to more can be found on our website: [www.tnorthconsulting.com](http://www.tnorthconsulting.com).

## Schedule

June 19 & 20, 2019

Wednesday & Thursday 8:00 a.m. – 4:30 p.m.

## Pricing

\$1,850/person

## Lodging and Training Facility

The training will be conducted at the TVA Corporate offices in downtown Chattanooga, TN. There are several hotels within walking distance of this location.

## Course Qualifies for Continuing Education Units (CEU)

Each attendee will receive a Certificate of Completion for 1.6 Continuing Education Units (CEU) credits to qualify for 16 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 the certificate.

## Instructors

### Glen Palmer

Glen is President of Palmer Group International, LLC and has spent the majority of his work career with an emphasis on snubbers. His experience includes snubber design, manufacture, inservice testing, failure evaluation as well as snubber program assessments, development and implementation. He is published as co-author of NUREG/CR-5386, Basis for Snubber Aging, as well as EPRI study TR-110381, Risk Informed Snubber Inservice Testing Guidelines. He has been invited to numerous industry owners and users group meetings to speak on various aspects of ASME Code and Regulatory compliance issues regarding snubbers. He is an ASME Fellow and presently serves on the O&M Standards Committee, TG New Reactor Codes and as Chair of the Subcommittee (ISTD) for Examination and Testing of Dynamic Restraints in LWR nuclear Plants, which he has been a member of for the past 35 years.

### Karl Asmundsson

Karl's career spans more than 29 years in the commercial nuclear industry and involvement in ASME Codes, specifically in the areas of Snubber manufacturing, testing, and programs. Over the years Karl has played a significant role in the early piping analyses programs and the design, qualifications, and maintenance of snubbers and associated components. He has been a member of the OM/ISTD dynamic restraints Subcommittee for over 20 years and has provided valuable guidance towards development of Snubber programs at various utility sites. Additionally, Karl co-pioneered development, implementation, and standardization of several in-place test programs, equipment, and procedures foundational to many of the currently recognized utility "best practices".

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

## Questions

Contact Pam Gilroy

970-964-2751

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

## Registration

Please register by 5 p.m. Friday May 22, 2019.

There are three easy ways to register!

E-mail: Complete the following form and send as an attachment to: [pgilroy@tnorthconsulting.com](mailto:pgilroy@tnorthconsulting.com).

Go to our Training Registration on our website: [www.tnorthconsulting.com/training\\_registration.php](http://www.tnorthconsulting.com/training_registration.php).

Mail: Complete the following form (along with check or CC information) and mail to: Pam Gilroy, True North Consulting, 150 Merchant Drive, Montrose, Colorado 81401

<b>ISTD Snubber Training</b>		<b>June 19 &amp; 20, 2019</b>	
<b>General Information</b>			
Name:			
Title:			
Company:			
Credit Card Billing Address			
Telephone:			
Fax:			
Email:			
<b>Payment Information</b>			
Check one form of payment:	<input type="checkbox"/> CREDIT CARD <span style="float: right;"><input type="checkbox"/> CHECK # _____</span> <input type="checkbox"/> Visa <input type="checkbox"/> MasterCard <input type="checkbox"/> American Express <input type="checkbox"/> Other		
Card #			
Exp. Date:			
Cardholder Name:			
Signature:			
Cardholder's Email Address/Phone Number:			
<ul style="list-style-type: none"> <li>• <i>Remittance of payment is due one week prior to the first day of training.</i></li> <li>• <i>Receipt for payment will be emailed to you as your confirmation.</i></li> <li>• <i>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.</i></li> <li>• <b>All information shall remain confidential.</b></li> </ul>			
If you have any questions about registering, please call 970-964-2751 or email <a href="mailto:pallroy@northconsulting.com" style="color: white;">pallroy@northconsulting.com</a> . Check our website for updated training information and schedules: <a href="http://www.tnorthconsulting.com" style="color: white;">www.tnorthconsulting.com</a>			