

FAC PROGRAMS

FAC—sometimes referred to as flow-accelerated corrosion, leads to wall thinning (metal loss) of steel piping exposed to flowing water or wet steam. The rate of metal loss depends on a complex interplay of many parameters such as water chemistry, material composition, and hydrodynamics. Carbon steel piping components that carry wet steam are especially susceptible to FAC and represent an industry wide problem. Experience has shown that FAC damage to piping at fossil and nuclear plants can lead to costly outages and repairs and can affect plant reliability and safety.

EPRI NSAC 202L states “There are six interrelated elements necessary for a plant FAC program to be fully effective”:

- **Corporate Commitment**
- **Analysis**
- **Site & Industry Experience**
- **Inspections**
- **Training & Engineering Judgment**
- **Long-term Strategy**

True North FAC program service offerings touch each of the six key elements for a fully effective FAC program.

Our True North team is led by Mr. Greg Tucker. Greg has over 28 years FAC experience to include previous utility FAC Program ownership, development, implementation and corporate governance and oversight. True North fully recognizes the safety significance and severity of consequences if FAC goes undetected. Therefore, we believe that experience is the critical attribute when selecting a consulting partner.

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FAC PROGRAMS

The True North Consulting FAC Team has significant experience with program development, implementation and management.

Primary service areas include the following:

- **SSE/SNM Update**
- **FAC Procedure Revision**
- **SFA Modeling/Line Calibration**
- **Inspection Planning/Optimization**
- **Outage Support – On-site/Remote**
- **UT Data Analysis**
- **FAC Program Management (Staff Augmentation)**
- **Long-Range Replacement Planning**
- **Determine Long-term (FAC Mitigation) Strategy**
- **FAC Program Training**
- **Program Assessment**

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True North Consulting is headquartered in Montrose, Colorado. Contact information for our corporate office and satellite offices for Engineering Programs is listed below:

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COMPANY PROFILE

True North Consulting is an Engineering Services company specializing in support for the electric power industry. Founded in 1999, True North has provided engineering-based consulting services to the majority of US utilities and to several abroad. Our services cover a wide spectrum within the power generation sector ranging from Engineering Programs related services in the nuclear power industry to plant Thermal Performance issues across the entire generation continuum. Additional areas of expertise include a complete array of Power Services associated with secondary plant equipment and a highly experienced Information Technology staff supporting our line of customized software products.

It is our goal and ongoing commitment to optimize these services with respect to cost, technical adequacy, and overall value to our clients. Towards this goal we continue to refine and update our staff and services through incorporation of technology and experience-based advancements.

Presented in this brochure is an overview of FAC Program services offered by True North Consulting along with general information concerning our office locations and contact information.

We sincerely hope this provides a clear representation of our company and how True North Consulting might benefit performance at your facility.

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FLOW ACCELERATED CORROSION



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The Next Level for Engineering Programs