

Engineering Solutions

# NUCLEAR REGULATORY COMPLIANCE

## Our Nuclear Regulatory Compliance Services

- > Software and Hardware Qualification Assessment of Systems and Products
- > Software Categorization
- > Nuclear-Hardening of Commercial Systems and Products
- > Software Quality Assurance Audit
- > Cyber Security Assessment of Systems and Products
- > Independent Verification and Validation
- > Software Engineering Deliverables
- > Software Maintenance Planning

## Meet Your Regulatory Obligations

We help nuclear operators and suppliers understand and comply with regulatory requirements for computer systems. Let us help you manage project technical and schedule risk in conforming to software and system engineering standards for safety applications, including: CSA N299.1, CSA Z299.1, CSA N286-12, CSA N286.7, CSA N290.14, CSA N290.7, CE-1002-STD and CE-1003-STD

## Our Nuclear Regulatory Experience

With the Following Suppliers:

- > ABB
- > AMETEK
- > Atlas Copco
- > Basler
- > Caterpillar (Solar)
- > Cisco
- > Emerson (Rosemount)
- > GE (Bentley Nevada, Multilin)
- > Invensys (Foxboro, Triconex, Wonderware)
- > Johnson Controls
- > Kepware
- > Microsoft
- > OMRON
- > OSISoft
- > Rockwell (Allen-Bradley)
- > RTP Corp.
- > Schneider (APC, Gutor)
- > Siemens

## Engineering Products and Services

- > Software Design Service Provider
- > Nuclear-grade Control System and Software Design and Development
- > Software Qualification Assessments and Software Quality Assurance
- > Information Technology (Computers, Systems, Software)

### Quality Assured

Alithya's Nuclear Quality Management System (NQMS) complies with CSA N299.1, CSA Z299.1, CSA N286-12, CSA N286-05, CSA N286.7-16, CAN/CSA Q396.1.1, Category II/III Software Engineering.

### Trusted Control System and Digital Transformation Partner

For over 35 years, Alithya has developed a distinguished reputation based on its flawless track record of solutions, long-term partnerships with customers, and deep expertise in the energy sector. Alithya has delivered hundreds of projects on-time and on-budget to nuclear power plant customers across Canada and the US.

*Our expertise spans from the control room to the boardroom – from the design and development of safety-critical shutdown systems and reactor control systems to safety-related monitoring, HMI/SCADA systems, plant data historians, cyber security, and delivering IT solutions, including CASSI™.*

As a CSA N299.1-compliant company, our unique mix of control system, software design, and integration experience, along with regulatory and cyber security compliance expertise, sets us apart from other software design service providers. Alithya has a proven history of producing innovative solutions and is well positioned to help customers with modernization/digital transformation using technologies, such as cyber security, big data, Industrial Internet of Things (IIOT), Artificial Intelligence (AI), and Machine Learning.



## Contact Us

**AS A NORTH AMERICAN LEADER IN STRATEGY AND DIGITAL TECHNOLOGY**, Alithya designs and builds innovative and efficient digital solutions for business challenges. Our clients cover a large spectrum of sectors including Banking, Investment and Insurance, Energy, Manufacturing, Retail and Distribution, Telecommunications, Transportation, Professional services, Healthcare and Government. Our 2,000 professionals in Canada, the US, and Europe combine pragmatic understanding and creative thinking to structure and streamline intricate operational ecosystems, help transform their businesses, and drive their growth every single day.

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