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The Wiznucleus[™] suite of products enables nuclear utilities to cost-effectively address critical plant and business processes in real-time

WIZMON ~ NRC/NERC Compliant Cyber Security

The WIZMON tool is an appliance designed to assess and implement emerging NERC and NRC cyber security requirements, in a phased approach, for access outside the Electronic Security Perimeter. It is a fully NIST compliant tool that delivers the customer's current and legacy applications in a cyber-secure environment. WIZMON provides high-confidence in secure access for: system administration, monitoring and updates, Internet access, off-site back-ups / disaster recovery, and external hosting, as well as providing a secure portal for collaboration with off-site entities.

Phase One is an assessment of current NERC/NRC cyber security regulations with the deliverable being a detailed "gap analysis" report and recommendations to achieve compliance. Most importantly, the report will be in a format to support an NRC submittal documenting compliance to current regulations.

Phase Two assists the customer in development of policy, procedures, and training required to bring the site into full compliance with the regulation. It features a fully NIST compliant tool that maintains current and legacy applications in a cyber-secure environment. This tool comes with hands-on assistance to the utility in the installation of any additional hardware and software need to achieve compliance.

Phase Three delivers high-confidence secure access for: system administration, monitoring and updates, Internet access, off-site back-ups / disaster recovery and external hosting, as well as providing a secure portal for collaboration with off-site entities. WIZMON's Network / Threat Monitoring and Response capability ensures that efforts to disrupt or deny service are identified and reported for response.

WIZNUKE ~ Requirements Knowledge Management

The WIZNUKE System is directly focused to improve development and review of reactor design certifications and combined operating licenses. It provides the customer with a customizable environment for management of nuclear plant licensing information. WIZNUKE is delivered based on a model of the NRC's Standard Review approach for nuclear plant design including One-Step Licensing and the use of "Inspections, Test, Analyses and Acceptance Criteria" (ITAAC) for operational programs.

WIZNUKE provides nuclear utility customers with a central knowledge repository for management of the NRC's standard licensing requirements (including new generation NRC-approved plant design). This decision support tool puts *actionable knowledge* at the customer's fingertips by finding, collecting, and presenting the latest information from the NRC and the nuclear industry at large.

WIZNUKE works seamlessly with engineering project management and enterprise systems. It has the ability to follow the decision basis for each safety evaluation/analysis used to support the applicable Standard Review Plan section. An added benefit is that it streamlines responses to questions and requests for additional information.

WIZDOM STATE Module ~ WIZDOM for the State Regulator

The WIZDOM STATE system provides state agencies with a highly-intuitive, user-friendly, ability to centrally manage requirements for which they are responsible either directly or in an oversight role. WIZDOM STATE includes a comprehensive “Executive Dashboard” that allows management (and other users) to quickly assess the status and timing of requirements. It provides reminders to ensure critical activities (deliverable dates, status update points, etc.) are never missed. WIZDOM STATE maintains a “change-by-change” log of all modifications made to any data in the system ensuring the chain-of-accountability is maintained and sends an Alert to the responsible individual if any requirement data or parameters are changed.

WIZDOM STATE’s structured approach allows source documents to be entered into the system and then directly linked to the requirements that are prescribed for the agency and the regulated entity. The requirements are then linked to the scheduled actions required to fulfill them. WIZDOM STATE provides a document library to collect supporting documentation (evidence of requirements met, status reports) to be uploaded for easy, secure access from any location with Internet access. WIZDOM STATE can also be configured to serve as a collaboration tool for intra-agency use or for use between the STATE and the regulated/monitored entity.

WIZDOM ~ Risk Management

WIZDOM delivers a life cycle risk management decision support tool, adaptable to customer requirements, that ensures the latest critical information for managing the licensing and construction of a nuclear facility is at the user’s fingertips. This module is “phase-based” automatically identifying and tracking the latest regulatory changes based on the current phase of the plant including licensing, construction, and plant status during operations.

The system is an integration platform that relies on a unique combination of state-of-the-art knowledge management technologies to continuously collect customer and regulatory requirements and related decision support information. WIZDOM was designed to work with existing applications such as MAXIMO, PeopleSoft, SAP, and, Primavera to provide a managed, and near real-time, status of the requirements under which the regulated industry operates.

WHY USE WIZNUCLEUS?

Wiznucleus’ combination of nuclear and IT /cyber security experience is based on a unique combination of NRC assessment work and private industry cyber security experience. Wiznucleus personnel have successfully planned and implemented a variety of multi-million dollar IT Projects (from enterprise software development to massively parallel system and infrastructure design) and has performed hundreds of NRC- and cyber security-related audits industry-wide. You can depend on Wiznucleus’ in-depth industry experience and knowledge of the nuclear, IT, and cyber security regulations successfully and cost-effectively meet the challenges facing your company today.

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