

SACADA Program

(Scenario Authoring, Characterization, and Debriefing Application)
A Tool for Simulator Training and Human Reliability Analysis

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What Is SACADA?

- Scenario Authoring, Characterization, and Debriefing Application
- A software tool for operator training:
 - Simulator training
 - Job performance measures
- Used for:
 - Developing training scenarios
 - Evaluating operator performance
 - Analyzing performance issues
 - Generating reports

Who Benefits from SACADA?

- Training department of nuclear power plants (NPP):
 - Reduce training staff's workload
 - Improve managers' awareness of crew performance
 - Increase the effectiveness of crew self-critics
- Risk department of NPPs and the NRC
 - Use the collected data to inform the human error probabilities in the probabilistic risk assessment models

How Are the Data Used?

- Training department:
 - Create training cycle reports to provide a quick overview of the crew performance in the training cycle
 - Expedite the development of new training scenarios in the next training to address the observed performance issues
 - Incorporate the data in a trending analysis to evaluate training effectiveness
- Risk department and the NRC:
 - Inform the estimates of human error probabilities
 - Improve human reliability analysis methods

SACADA Software Availability

- The NRC provides free SACADA software licenses to U.S. and international NPPs:
 - The NRC requires the NPP to share the collected data with the agency
 - The NRC will not perform regulatory actions based on the data
 - The NRC will use the data to improve its human reliability analysis methods
- The NRC provides free technical support and training for the NPPs partnering with the agency on SACADA

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