



Digital Instrumentation and Control Design Acceptance Criteria

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Background

- Instrumentation and Control (I&C) identified as one of the areas for which Design Acceptance Criteria (DAC) may be applied.
- NRC staff may make a final safety conclusion using DAC for design certification.
- DAC would be subject to satisfactory design implementation and verification by the combined license holder through appropriate Inspection, Test, Analysis, and Acceptance Criteria (ITAAC).

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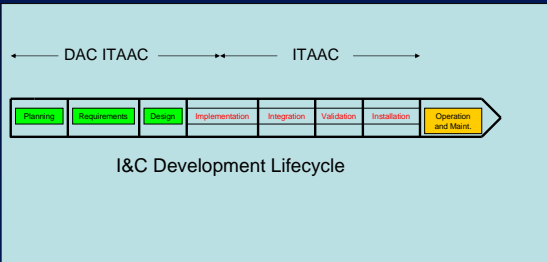
Technical Information Challenges Associated With I&C DAC

- What parts of I&C development are considered DAC?
- How will the NRC verify I&C DAC information?
- What is the process for addressing I&C DAC?
- What are the schedules for addressing I&C DAC?

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Proposed I&C DAC Process





NRC Perspectives on Detailed Design Information

- Planning stage information to be addressed in the application to the extent possible.
- Requirements/Design stage information would be audited.
- Schedule of when information will be available is most helpful.



Stages to Provide Detailed Design Information

- Design certification application stage
- Combined license application stage
- Post-combined license issuance



NRC Activities With I&C DAC

- Reviewing detailed design information for one reactor vendor
- Work with current working groups regarding I&C DAC verification process
- Interaction with stakeholders
- Gather proposed schedules for detailed design information
