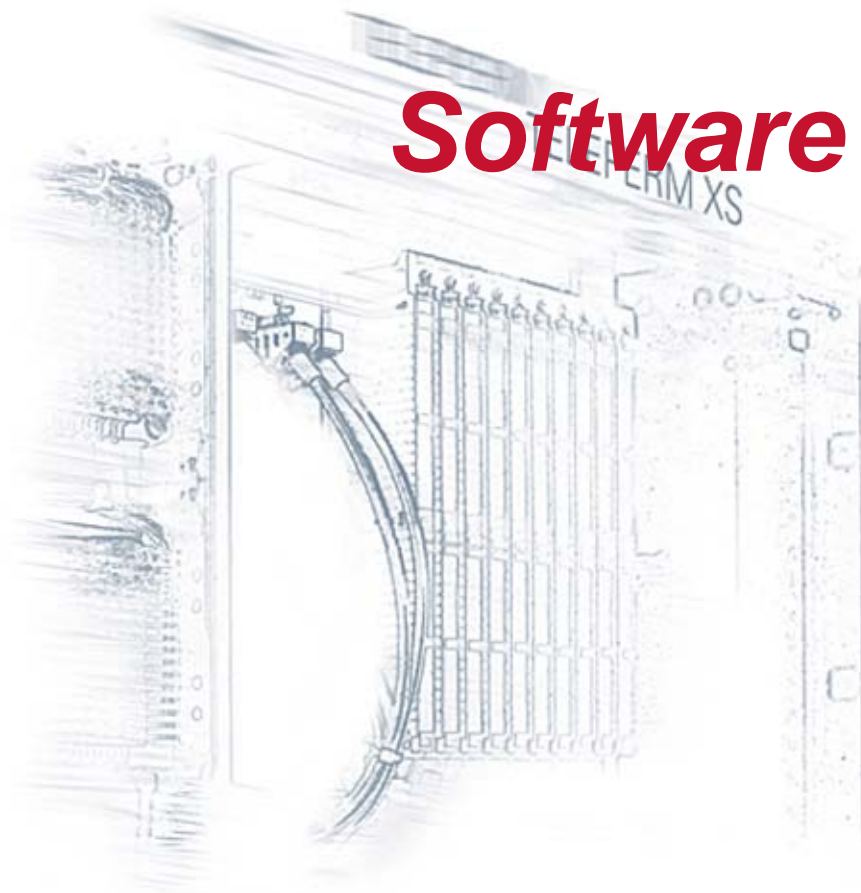


# ***TELEPERM XS*** ***Software Program Manual***

***Meeting with NRC***  
***June 16, 2009***

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## Recent Correspondence

- > **February 18, 2009 AREVA NP Letter to NRC (NRC:09:014)**
  - ***Draft Revision 1 of the Software Program Manual Topical Report***
  - ***Incorporates Changes Associated with RAI Responses***
  - ***Added Insights and Lessons Learned from Oconee LAR Review***
  - ***Incorporated Changes to Lifecycle Terminology Based on AREVA NP Global Standardization Activities***
  - ***Removed References to SIVAT and Replaced with General Language Allowing Future Use of NRC-Approved Simulation Test Tool***

## Recent Correspondence

- > **April 7, 2009 AREVA NP Letter to NRC (NRC:09:035)**
  - **Identified an Updated Draft Revision 1 of the Software Program Manual Topical Report for Submittal**
  - **Incorporates Changes Associated with Resolution of Comments Provided in NRC March 9, 2009 Letter**
  - **Included New Guidance Patterned After 10 CFR 50.54(a)(3) and 10 CFR 50.59 to Address Future TELEPERM XS Platform Changes for Use in U.S. Projects**
- > **June 11, 2009 AREVA NP Letter to NRC (NRC:09:063)**
  - **Request for Review and Approval of ANP-10303P, SIVAT: TELEPERM XS Simulation Validation Test Tool Topical Report**

# Summary of Software Program Manual Changes

## > **General**

- **Added Sections and Reformatted Information to Align with BTP 7-14**

## > **Section 3, Software Management Plan**

- **Added Key Interface Information**
- **Expanded Organization and Responsibilities Information**
- **Incorporated RAI Responses**
- **Addressed NRC March 2009 Concerns**
  - **Added Information on Open Item Process**
  - **Added Information on Use of Industry Standards**

# Summary of Software Program Manual Changes

## > **Section 4, Software Development Plan**

- ***New Section***
- ***Relocated Lifecycle Development and Documentation Information***
- ***Incorporated RAI Responses***
- ***Addressed NRC March 2009 Concerns***
  - ***Added Function Block Information***
  - ***Added SPACE Tool Information***
- ***Included New Guidance Patterned After 10 CFR 50.54(a)(3) and 10 CFR 50.59 to Address Future TELEPERM XS Platform Changes for Use in U.S. Projects***

# Summary of Software Program Manual Changes

- > **Section 5, Software Quality Assurance Plan**
  - **Incorporated RAI Responses**
  - **Expanded Information on Software Reviews Based on IEEE Std 1028**
  - **Addressed NRC March 2009 Concerns**
    - **Expanded Management Responsibility Information**
- > **Section 6, Software Integration Plan**
  - **New Section**
  - **Incorporated RAI Responses**
- > **Section 7, Software Installation Plan**
  - **New Section**
  - **Incorporated RAI Responses**

# Summary of Software Program Manual Changes

- > **Section 8, Software Maintenance and Operation Plan**
  - **Incorporated RAI Responses**
- > **Section 9, Software Training Plan**
  - **Minor Edits**
- > **Section 10, Software Safety Plan**
  - **Incorporated RAI Responses**
  - **Addressed NRC March 2009**
    - **Expanded Management Responsibility Information**
    - **Expanded Discussion of Software Hazard Analysis**

# Summary of Software Program Manual Changes

- > **Section 11, Software Verification and Validation Plan**
  - **Incorporated RAI Responses**
  - **Expanded Discussion of Verification and Validation Activities and Methods Based on IEEE Std 1012-1998**
  - **Removed References to SIVAT and Replaced with General Language Allowing Future Use of NRC-Approved Simulation Test Tool**
  - **Relocated Test Information to New Section 13**
  - **Addressed NRC March 2009**
    - **Expanded Management Responsibility and Independence Information**



# Summary of Software Program Manual Changes

- > **Section 12, Software Configuration Management Plan**
  - **Incorporated RAI Responses**
  - **Addressed NRC March 2009**
    - **Expanded Change Control Board Information**
- > **Section 13, Software Test Plan**
  - **New Section**
  - **Incorporated RAI Responses**
  - **Expanded Discussion of Test Activities and Methods**
  - **Removed References to SIVAT and Replaced with General Language Allowing Future Use of NRC-Approved Simulation Test Tool**
  - **Addressed NRC March 2009**
    - **Expanded Discussion of Test Alignment to IEEE Std 1012-1998**

# Summary of Software Program Manual Changes

- > **Appendix B, Historical Information on SPACE Tool Qualification**
  - **New Section**
  - **Added Historical Information on SPACE Tool Qualification**
  - **Incorporated RAI Responses**