



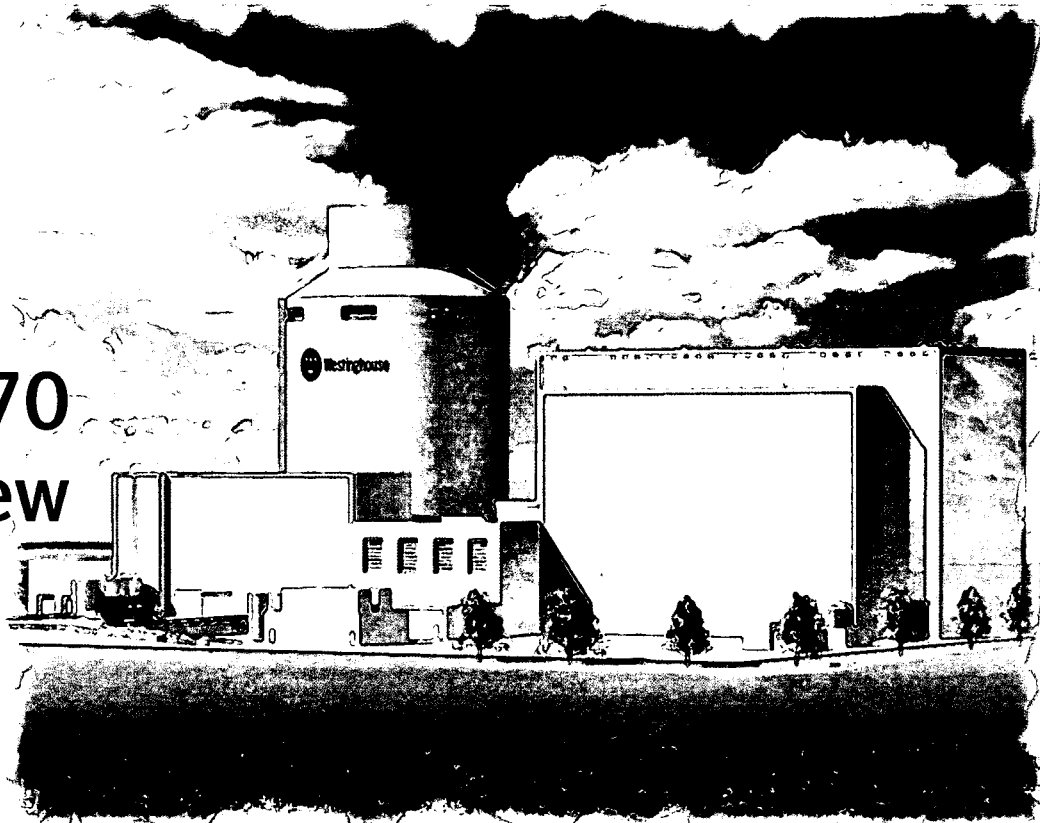
Overview of Technical Report 70, Revision 1

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Technical Report 70 Revision 1 Overview

Stu Long, Manager
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AP1000 Procedures



Technical Report 70 Overview

- **Status at Design Certification**

- Procedure Development was not complete at Design Certification.

- **COLA-related work efforts**

- Work completed to date: APP-GW-GLR-040 (TR 70), which addresses COL Information Item 18.9-1 and partially addresses COL Information Item 13.5-1 has been completed.
- Standardized Procedure Writer's Guidelines and a significant portion of the Standardized Procedure population has been developed.

- **Post COL**

- Phase 3 procedure development as defined in TR 70.

Technical Report 70 Overview

- Methodology and criteria for procedure development is contained in the Westinghouse Writer's Guidelines for the Normal Operating and Two-Column Format Procedures
 - Writer's Guidelines incorporate industry and regulatory standards for the procedure development process
 - Writer's Guidelines also address human factors requirements for nuclear power plant procedures
 - Writer's Guidelines provide the basis for generating the procedures necessary for the conduct of human factors evaluation work and plant operations



Technical Report 70 Overview

- **Standardized Procedures are being completed by Westinghouse and The Builder's Group in accordance with the AP1000 Procedures Project Integrated Master Plan.**
- **AP1000 Procedures will be available for NRC review at Westinghouse in accordance with the Current Integrated Master Plan, Phases 1 through 3, as delineated on the schedule in the subsequent two slides.**

Technical Report 70 Overview

- **Phases 1 and 2 of the current AP1000 Procedures Project Plan have been completed and are delineated below:**

Current Integrated Master Plan

Phase 1 Procedures --- WEC Engineering Office Human Factors/ Simulator Development Support		
◇ Emergency Operating Procedures (3 total)		Completed
◇ Draft Normal Operating Procedures (15 total)		Completed
◇ Draft Abnormal Operating Procedures (2 total)		Completed
Phase 2 Procedures --- WEC Engineering Office Operational Task Analysis (OSA-1) Support		
◇ Emergency Operating Procedures (20 total)		Completed
◇ Draft Normal Operating Procedures, (9 total)		Completed
◇ Draft Surveillance Test Procedures, (1 total)		Completed

Technical Report 70 Overview

- **Phase 3 Procedure Activities as delineated below, are expected to occur after the COL Application is submitted:**

Phase 3 Procedures and Guidelines --- WEC Engineering Office

Remaining Procedures and Guidelines

- ◇ Remaining Emergency Operating Procedures (11 total)
- ◇ Draft Normal Operating Procedures which support specific EOP actions (20 total)
- ◇ Draft Abnormal Operating Procedures (43 total)
- ◇ Draft Post-72 Hour Procedures (estimate 15 total)
- ◇ Remaining Draft Normal Operating Procedures (47 total)
- ◇ Maintenance Guidelines (estimated 150 total)
- ◇ Surveillance Guidelines (estimated 200 total)
- ◇ Draft Refueling & Outage Procedures (estimated 50 total)
- ◇ Alarm Response Guidelines (estimated 3000 total)
- ◇ Administrative Guideline (1 total)



Technical Report 70 Overview

- **Procedure Development Process**
- **The procedure development process follows the requirements delineated in the applicable AP1000 Writer's Guidelines. The Writer's Guidelines establish programmatic guidelines for AP1000 Operating Procedure development as well as the process for the:**
 - Preparation of AP1000 Operating Procedures
 - Review of AP1000 Operating Procedures
 - Approval of AP1000 Operating Procedures

Technical Report 70 Overview

- **Procedure Development Qualifications and Training**
- **Personnel developing AP1000 Operating Procedures are qualified in accordance with classroom training and Computer-Based Training, which address:**
 - Procedure Writing
 - The AP1000 Procedure Writer's Guidelines
 - AP1000 Administrative Processes, and
 - AP1000 Systems and Design



Technical Report 70 Overview

- **Proposed Markup of the DCD Subsequent to NRC acceptance of TR 70:**
- **Revise Section 13.5.1 to read as follows:**
- **The Combined License information requested in this subsection has been partially addressed in APP-GW-GLR-040, Revision 1 (Reference 10), and the applicable changes are incorporated into the DCD. No additional work is required by the Combined Operating License Applicant to address the aspects of the Combined License information requested in this subsection as delineated in the following paragraph:**
- **The process to manage the development, review and approval of AP1000 Normal Operating, Abnormal Operating, Emergency Operating, Refueling and outage planning, Alarm response, Administrative, Maintenance, Inspection, Test and Surveillance Procedures as well as the procedures which address the operation of post-72 hour equipment is delineated in APP-GW-GLR-040, Revision 1. In addition, APP-GW-GLR-040 submitted to the NRC the Writer's Guidelines for Normal Operating and Two-Column Format Procedures, APP-GW-GJP-100 and APP-GW-GJP-200 respectively.**



Technical Report 70 Overview

- **The Combined Operating License Applicant will address Operational and Maintenance Programmatic issues, as well as training and other issues which have been tied to COL Information Item 13.5-1 in the AP1000 licensing process.**
- **The following words represent the original Combined Operating License Information Item commitment:**
- **Combined License applicants referencing the AP1000 certified design will address plant procedures including the following:**
 - Normal operation
 - Abnormal operation
 - Emergency operation
 - Refueling and outage planning
 - Alarm response
 - Maintenance, inspection, test and surveillance
 - Administrative
 - Operation of post-72 hour equipment
- **References: APP-GW-GLR-040, Plant Operations, Maintenance and Surveillance Procedures, Revision 1**

Technical Report 70 Overview

- **Proposed Markup of the DCD Subsequent to NRC acceptance of TR 70:**
- **Revise Section 18.9.1 to read as follows:**
- **18.9.1 Combined License Information**
- The Combined License information requested in this subsection has been addressed in APP-GW-GLR-040, (Reference 2), and the applicable changes are incorporated into the DCD. No additional work is required by the Combined Operating License Applicant to address the aspects of the Combined License information requested in this subsection. The work that has been completed is summarized in the following paragraph:



Technical Report 70 Overview

- The process to manage the development, review and approval of AP1000 Normal Operating, Abnormal Operating, Emergency Operating, Refueling and outage planning, Alarm response, Administrative, Maintenance, Inspection, Test and Surveillance Procedures as well as the procedures which address the operation of post-72 hour equipment is delineated in APP-GW-GLR-040. In addition, APP-GW-GLR-040 submitted the Writer's Guidelines for Normal Operating and Two-Column Format Procedures for NRC review. Reference 2 identifies the procedures needed to successfully complete the AP1000 HFE program. Reference 2 also explains that these procedures either already have been or will be completed to support the corresponding HFE activities that require these procedures.

Technical Report 70 Overview

- The following words represent the original Combined Operating License Information Item commitment, which has been addressed as discussed above:
 - *See Section 13.5 for a discussion of the responsibility for procedure development.*
- Add the following Reference to Sections 13.5.1 and 18.9.2 as follows
 - References:
 2. APP-GW-GLR-040, “Plant Operations, Surveillance, and Maintenance Procedures” Revision 1