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**AP1000 R-COLA
FSAR Standardization
DCWG Meeting
July 25, 2007**

Enclosure 14



AP1000 R-COLA FSAR Standardization

- **Last meeting discussions**
 - COL items
 - Departures
- **NRC Feedback / Questions?**
- **Update on departures**
- **Update standardization matrix**
- **Identify supplemental material**
- **Other Parts of COL in next discussion**

AP1000 R-COLA FSAR Chapter 1 Introduction and General Description

RIS Response Update

Sect.	IBR	STD	PS
1.1	IBR	X	X
1.2	IBR		X
1.3	IBR		
1.4	IBR		X
1.5	IBR		
1.6	IBR	X	
1.7	IBR		X
1.8	IBR	X	X
1.9	IBR	X	X
1.10	new	X	X
1A	IBR	X	

- DEP 1.1-1 – numbering and organization difference
– new subsection 1.4.2.8
- COL items
- SUP material to address COLA rather than design certification, for example...
 - Applicant
 - Plant location
 - Acronyms
 - Contractors



AP1000 R-COLA FSAR Chapter 2 Site Characteristics

RIS Response Update

Sect.	IBR	STD	PS
2.0	IBR	X	X
2.1	IBR		X
2.2	IBR		X
2.3	IBR		X
2.4	IBR		X
2.5	IBR		X

- **DEP 1.1-1 – numbering and organization difference**
– new subsections in 2.1 through 2.5
- **COL material to address site characteristics**
- **SUP material to address...**
 - Site characteristic conformance to DCD site parameters

AP1000 R-COLA FSAR Chapter 3 Design of SSCs

RIS Response Update

Sect.	IBR	STD	PS
3.1	IBR		
3.2	IBR	X	
3.3	IBR	X	X
3.4	IBR	X	X
3.5	IBR	X	X
3.6	IBR	X	
3.7	IBR	X	X
3.8	IBR	X	
3.9	IBR	X	
3.10	IBR		
3.11	IBR	X	
3A-3J	IBR		

- COL items
- SUP material to address...
 - No other SR'd SSCs
 - No other structures next to NI
 - External flooding sources
 - No permanent dewatering
 - Requested cross references
 - Dual unit considerations
 - Procedures
 - Seismic instrumentation
 - Overburden, embedment
 - Waterproofing



AP1000 R-COLA FSAR Chapter 4 Reactor

RIS Response Update

Sect.	IBR	STD	PS
4.1	IBR		
4.2	IBR		
4.3	IBR		
4.4	IBR		
4.5	IBR		
4.6	IBR		

- All IBR

AP1000 R-COLA FSAR Chapter 5 Reactor Coolant System

RIS Response Update

Sect.	IBR	STD	PS
5.1	IBR		
5.2	IBR	X	
5.3	IBR	X	
5.4	IBR	X	

- COL items
- SUP material to address...
 - LTOP
 - Water chemistry
 - Boric acid inspection
 - P-T limits procedures

AP1000 R-COLA FSAR Chapter 6 Engineered Safety Features

RIS Response Update

Sect.	IBR	STD	PS
6.1	IBR	X	
6.2	IBR	X	
6.3	IBR	X	
6.4	IBR	X	X
6.5	IBR		
6.6	IBR	X	
6A	IBR		

- COL items
- SUP material to address...
 - Dual units dose analysis

AP1000 R-COLA FSAR Chapter 7 Instrumentation and Controls

RIS Response Update

- All IBR

Sect.	IBR	STD	PS
7.1	IBR		
7.2	IBR		
7.3	IBR		
7.4	IBR		
7.5	IBR		
7.6	IBR		
7.7	IBR		

AP1000 R-COLA FSAR Chapter 8

Electric Power

RIS Response Update

Sect.	IBR	STD	PS
8.1	IBR		X
8.2	IBR		X
8.3	IBR	X	X

- COL items
- CDI replacement
- SUP material to address...
 - Grid information
 - Switchyard information
 - TSP agreement
 - PS Non-class 1E loads
 - PS Site conditions

AP1000 R-COLA FSAR Chapter 9 Auxiliary Systems

RIS Response Update

Sect.	IBR	STD	PS
9.1	IBR	X	
9.2	IBR		X
9.3	IBR	X	
9.4	IBR		X
9.5	IBR	X	X
9A	IBR	X	X

- **DEP 1.1-1 – numbering and organization difference**
– new subsections in 9.5
- **COL items**
- **SUP material to address...**
 - Heavy loads
 - Sanitary waste
 - Raw water
 - Thread compatibility

AP1000 R-COLA FSAR Chapter 10

Steam and Power Conversion

RIS Response Update

Sect.	IBR	STD	PS
10.1	IBR	X	
10.2	IBR	X	
10.3	IBR	X	
10.4	IBR	X	X

- COL items
- CDI replacement
- SUP material to address...
 - Turbine missiles
 - Valve testing frequency
 - Steam/water hammer prevention
 - Chemistry
 - IGSCC susceptibility

AP1000 R-COLA FSAR Chapter 11 Radioactive Waste Management

RIS Response Update

Sect.	IBR	STD	PS
11.1	IBR		
11.2	IBR	X	X
11.3	IBR		X
11.4	IBR	X	
11.5	IBR	X	X

- COL items
- SUP material to address...
 - Procedures

AP1000 R-COLA FSAR Chapter 12 Radiation Protection

RIS Response Update

Sect.	IBR	STD	PS
12.1	IBR	X	
12.2	IBR	X	
12.3	IBR	X	
12.4	IBR	X	
12.5	IBR	X	
12AA	new	X	X

- DEP 1.1-1 – numbering and organization difference
– new Appendix 12AA
- COL items
- SUP material to address...
 - ALARA for mods
 - Construction dose
 - Procedures

AP1000 R-COLA FSAR Chapter 13

Conduct of Operations

RIS Response Update

Sect.	IBR	STD	PS
13.1	IBR	x	X
13.2	IBR	X	
13.3	IBR	X	
13.4	IBR	X	
13.5	IBR	X	
13.6	IBR	X	
13.7	new	X	
13AA	new		X

- DEP 1.1-1 – numbering and organization difference
– new subsections throughout
- COL items

AP1000 R-COLA FSAR Chapter 14 Initial Test Program

RIS Response Update

Sect.	IBR	STD	PS
14.1	IBR		
14.2	IBR	X	X
14.3	IBR	X	X
14.4	IBR	X	X

- **DEP 1.1-1 – numbering and organization difference**
– new subsections in 14.2.9 and 14.2.10
- **COL items**
- **SUP material to address...**
 - Site specific ITAAC criteria
 - Site specific ITAAC screening

AP1000 R-COLA FSAR Chapter 15 Accident Analysis

RIS Response Update

Sect.	IBR	STD	PS
15.0	IBR		
15.1	IBR		
15.2	IBR		
15.3	IBR		
15.4	IBR		
15.5	IBR		
15.6	IBR		X
15.7	IBR		X
15.8	IBR		
15A	IBR		X
15B	IBR		

- COL items
- SUP material to address...
 - Cross reference to dispersion coefficient information



AP1000 R-COLA FSAR Chapter 16 Technical Specifications

RIS Response Update

Sect.	IBR	STD	PS
16.1	IBR*	X	
16.2	IBR		
16.3	IBR	X	

- COL items
- *16.1 only IBR through 16.1.2
- PS TS in COLA Part 4



AP1000 R-COLA FSAR Chapter 17 Quality Assurance

RIS Response Update

Sect.	IBR	STD	PS
17.1	IBR		X
17.2	IBR		
17.3	IBR		
17.4	IBR		
17.5	New	X	
17.6	New	X	
17.7	IBR	X	X
17.8	IBR	X	X

- **DEP 1.1-1 – numbering and organization difference**
– new sections 17.5 & 17.6
- **COL items**
- **SUP material to address...**
 - Maintenance rule

AP1000 R-COLA FSAR Chapter 18

Human Factors Engineering

RIS Response Update

Sect.	IBR	STD	PS
18.1	IBR		
18.2	IBR		X
18.3	IBR		
18.4	IBR		
18.5	IBR		
18.6	IBR	X	
18.7	IBR	X	

- COL items
- SUP material to address...
 - TSC reference to EP

AP1000 R-COLA FSAR Chapter 18 (cont'd)

RIS Response Update

Sect.	IBR	STD	PS
18.8	IBR		
18.9	IBR	X	
18.10	IBR	X	
18.11	IBR		
18.12	IBR		
18.13	IBR		
18.14	IBR	X	

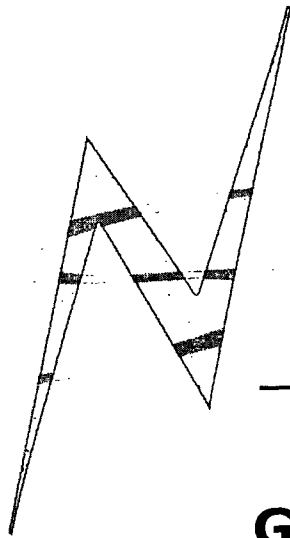
- COL items
- SUP material to address...
 - Procedure development
 - Training program amended per findings

AP1000 R-COLA FSAR Chapter 19 Probabilistic Risk Assessment

RIS Response Update

Sect.	IBR	STD	PS
19.1	IBR		
To	IBR		
19.58	IBR		
19.59	IBR	X	
19A-E	IBR		

- COL items
- SUP material to address...
 - PRA configuration control



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**Generic COLA Parts Description
DCWG Meeting
July 25, 2007**



Part 0 – Cover Letter

- **Application Cover Letter(s), include:**
 - Oath or Affirmation
 - Listing of CD (or DVD) Contents (List of COLA Parts)
 - LWA Requests (if any)
 - Exemption requests (if any)
 - List of Documents Incorporated by Reference
 - Reference plant identification
 - Schedule considerations
 - Freeze date re: DCD rev and TRs
 - Contact for RAIs
 - Contact for procurement info
 - Reference other submittal letters (if not complete)
 - Address use of electronic links (if any)
 - Identification of Addressed ITAAC/DAC
 - Affidavits for Withheld Info in Part 9



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Part 1- General & Administrative Info

- **Decommissioning Report [Appendix]**
- **Withheld info – see Part 9**



Part 2 – Final Safety Analysis Report

- **Incorporate by reference the DC rule – 1.1**
- **References to appropriate DCD section(s) – each section**
- **COL Info Item cross-reference (DCD and ESP) – 1.8/1.10**
- **Confirm design within SCs and DPs of ESP - various**
- **Confirm site characteristics within SPs of DCD – 2.0**
- **Document compliance with ESP Conditions - various**
- **Operations programs table - 13.4**
- **Fitness for duty – 13.7**
- **Construction impacts Info – 1.10/1.12**
- **Construction related (other) info – end of subsection(s)**
- **Withheld info – see Part 9**



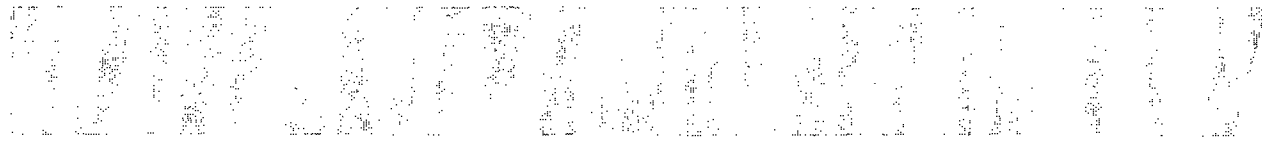
Part 3 – Environmental Report

- **If referencing ESP:**
 - Info not resolved at ESP
 - Info to show ESP terms and conditions met
 - Info to demonstrate facility falls within ESP SC & DP
 - New and significant info
 - New and significant process description
- **Withheld Info – See Part 9**



Part 4 – Technical Specifications

- **GTS adoption**
 - IBR of DCD GTS (including Bases)
 - Completion of COL Information Item – provide bracketed material
 - Supporting justifications for bracketed material
 - Application of TS selection criteria for site-specific SSCs
 - Identification of any departures &/or supplements
 - Exemption requests, if any (referenced in Part 7)
- **Clean Copy**
 - Technical specifications – clean copy
 - Bases – clean copy



Part 5 – Emergency Plans

- **Site specific plan**
- **Differences from ESP approved plans**
- **State emergency plan information**
- **Local emergency plan information**
- **EP certifications**
- **Guidance cross-references**
- **Evacuation time estimate**
- **Withheld info – See Part 9**



Part 6 – Limited Work Authorization Info

- **Specific LWA request**
- **Site Redress Plan**
- **Portions of Environmental Report**
- **Portions of Final Safety Analysis Report**
- **Reference to QA Plan**
- **Withheld info – see Part 9**



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Part 7 – Other Reports & Requests

- **Generic DCD Departures Report**
 - Rev 16 Departures (discussion and justification)
- **ESP Variance Report**
- **Exemption Requests (if any)**
 - Numbering and organization (DCR IV.A.2.b)



Part 8 – Safeguards Information

- **Plant Specific PSP (based on TR95 & NEI 03-12)**
 - Security Plan
 - Safeguards Contingency Plan
 - Guard Force Training Plan
- **DCD Safeguards Info?**
 - “Physically include, in the plant-specific DCD, the proprietary and safeguards information referenced in the AP1000 DCD”



Part 9 – Other Withheld Information

- **OPTION**
- **Business-sensitive or proprietary information**
- **Security-related information (SRI, but not SGI)**
- **Personally identifiable information (PII)**
- **Presented by various Parts**
 - e.g., Part 9-2 would include FSAR material;
 - Part 9-3 would include ER material;
 - Part 9-5 would include EP material;
 - Part 9-11B would include DCD material, etc.
- **Required affidavits from document owner**

Part 10 – License Conditions

- **Inspections, Tests, Analyses, and Acceptance Criteria**
 - IBR DCD Tier 1 ITAAC
 - IBR ESP ITAAC
 - New Emergency Planning ITAAC
 - New Security Hardware ITAAC
 - Other plant- or site-specific ITAAC (if any)
- **ITAAC design description information**
- **ITAAC completion notifications**
- **Other proposed License Conditions**



Part 11 – Other IBR Documents

- **COLA Enclosures (IBR documents)
[or electronic “Reference Documents”]**
- **QAPD Topical Report**
- **NEI Templates (ADAMS version) (?)**
- **Other Technical Reports (ADAMS version) (?)**
 - e.g., Westinghouse or NuStart
- **DCD (ADAMS version) (?)**
- **ESP, ESP application and EIS (ADAMS version) (?)**
- **Any other IBR’d document(s)**