

Agenda

8:00 am	Introductions/Opening Remarks	All
8:10 am	COL Application <ul style="list-style-type: none">- Overall Organization- Schedule- Section Preparation Approach- Section Examples	DCWG
9:50 am	Public Comment Opportunity	Public
10:00 am	Break	
10:15 am	Other DCWG Topics <ul style="list-style-type: none">- Communications Protocol- Status of DCWG Activities	DCWG
11:20 am	Public Comment Opportunity	Public
11:30 am	Adjourn	
1:00pm	Emergency Action Levels	Joint Meeting with AP 1000 DCWG



2nd Pre-Application Meeting with NRC

ESBWR Design-Centered Working Group

North Anna COL Application

Grand Gulf COL Application

River Bend COL Application

September 20, 2006



Opening Remarks

- Continue dialog
- Commitment remains firm to
 - Submit quality COL applications on schedule
 - Employ a design-centered approach
 - Maximize standardization
 - within the ESBWR working group
 - with AP1000 DCWG
 - Industry-wide topics (proposed through NEI)

Meeting Purpose

- Describe structure of the COL application
- Discuss schedule-related topics
- Update status of COLA standardization
- Examine examples of standardization categories
- Update status of communications protocol
- Provide status on ESBWR working group activities of interest
- Plan for future meetings

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COL Application

- The COLA is currently envisioned in ten parts
 - Handout provides details and illustrates relationship of parts to regulations and guidance
 - Other key documents included in application
- Working with AP1000 DCWG

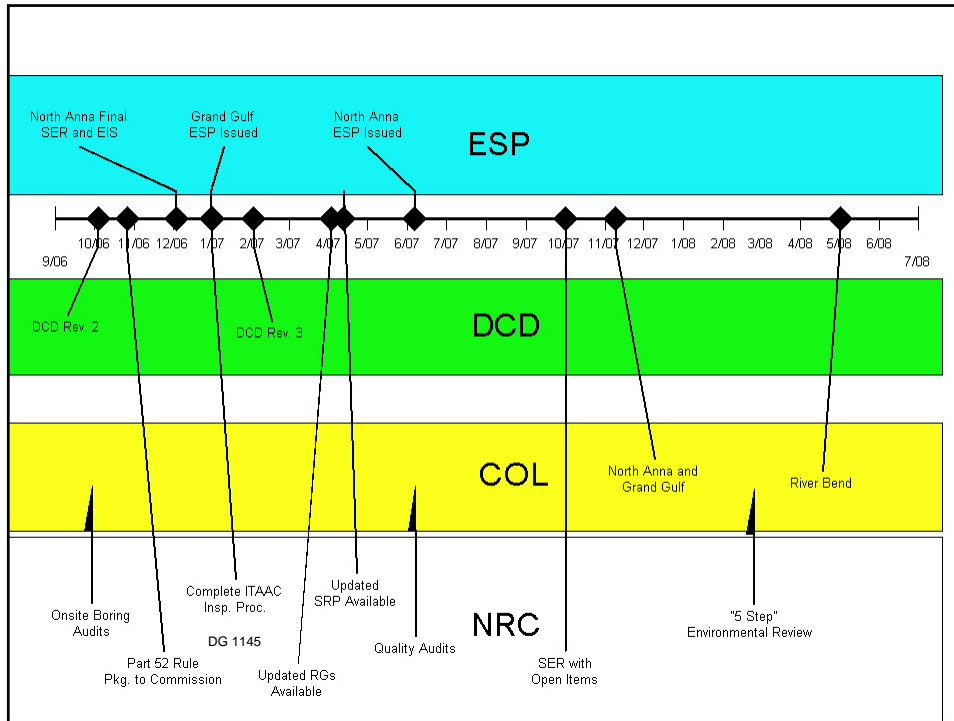
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COL Application Outline		
No.	COLA Part/Chapter	Regulation/ Guidance Document
Part 1	General and Administrative Information	<ul style="list-style-type: none"> ▪ 10 CFR 52.77 ▪ 10 CFR 50.33 ▪ Proposed 10 CFR 52.77 ▪ Proposed 10 CFR 50.33(f)(3) ▪ DG-1145, C.IV.5
Part 2	Final Safety Analysis Report	<ul style="list-style-type: none"> ▪ 10 CFR 52.79(a) and (b) ▪ 10 CFR 50.34(b) ▪ Proposed 10 CFR 52.79(a), (b), and (d) ▪ DG-1145, C.III.2
Part 3	Environmental Report	<ul style="list-style-type: none"> ▪ 10 CFR 52.79(a)(1) ▪ Proposed 10 CFR 51.50(c)(1) and (2) ▪ Proposed 10 CFR 52.80(c) ▪ DG-1145, C.II.3

COLA Parts—See Handout

Schedule-related Topics

- COLAs scheduled for submittal in
 - November 2007—Grand Gulf and North Anna
 - May 2008—River Bend
- GG and NA COLAs involve docketed DCD and ESP
 - Draft RG-1145 guidance (C.III.6)
 - COLAs will be revised to reference appropriate version of the DCD under review
- Pre-application period activities increasing
 - Illustrated on timeline
 - Important to understand how NRC's needs align with applicants' schedules



Schedule-related Topics (cont.)

- COLA schedule handout
 - Illustrates current schedule (weekly status)
 - Some sections impacted by need for NRC guidance
- NRC feedback requested
 - Working group schedule expectations expressed at July 2006 meeting
 - ESBWR design certified in June 2009
 - NA/GG COLs issued in June 2010
 - RB COL issued in December 2010

Schedule-related Topics (cont.)

- Ability to accommodate changes in DCD as a result of parallel DCD/COL approach
 - GE intends to submit DCD Rev. 2 soon to ensure NRC has timely notice of changes
- NRC approach for pre-application review of environmental information
 - 5-Step approach applicability?
 - Applicability to ESP holders?
 - Critical path for review?
- NRC Part 52 rule/DG-1145 timing?
- NRC plans for pre-application public meetings near site?

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COLA Standardization

- Standardization matrix presented at July 2006 meeting and submitted in RIS response
 - Remains a living project document
 - Matrix enhanced via additional category and expected trends
- Updated matrix to be discussed via handout

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Part Chapter Section	Title	Lead Organization Preparing Section	Standardization Assessment ¹			
			Match DCD	Standard	Standard With Site- Specific	Site- Specific
Part 1	General and Administrative Information					
--	General Information	Dominion NuStart Energy			X (2)	
--	Financial Information	Dominion NuStart Energy			X (2)	
--	Other Information	Dominion NuStart Energy			X (2)	
Part 2	Final Safety Analysis Report					
FSAR Chapter 1	Introduction and General Description					
1.1	Introduction	Dominion NuStart			X (2)	

Standardization Matrix—See Handout

COLA Standardization

- High degree of standardization will be achieved

FSAR Standardization		
Number of FSAR Sections	Percent of FSAR Sections	Section Type
48	27%	Match DCD
87	48%	Standard (identical)
25	14%	Standard with a limited amount of site-specific information
12	7%	Standard with a moderate amount of site-specific information
7	4%	Site-specific
193	100%	Total

Standardization Examples

- Intend to use DCD/ESP information and label information that appears in the COLA
 - Various techniques available
- Handouts will be used to illustrate examples of the standardization categories and labeling
 - DCD Match
 - Standard
 - Standard with site-specific info
 - Site-specific

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Communications Protocol

- An R-COL and S-COL will be designated prior to submittals
 - R-COL assumes single point-of-contact (SPOC) functions
- In interim, the SPOC for written communications to/from ESBWR DCWG is
 - Eugene S. Grecheck
 - ESBWR Design Centered Working Group
 - 5000 Dominion Blvd
 - Glen Allen, VA 23060
- Verbal communications remains as described in the July 17, 2006 RIS response
- Working group will submit letter confirming above and provide service list

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Billing Protocol

- Request that NRC bill NuStart and Dominion equally for pre-application DCWG activities, such as today's and future meetings

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Status of DCWG and Applicant Activities

- COLA/DCD Chapter 2
- Boring campaigns at GG, NA and RB
- Utility SRO support for ESBWR HFE design effort
- Continued support for NEI initiatives
 - Generic COLA section templates
 - Support NEI/EPRI seismic task force
- Limited use of pre-application topical reports (e.g., first cycle core design) to support COLAs

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Planning

- Support and expand future joint working group meetings
 - Today intended to demonstrate coordination possible
- Develop/maintain open items list for this and future meetings
- Possible future topics
 - COLA/DCD Chapter 2
 - ER “New and significant”
 - Electronic information issues
 - Open items from previous meetings
 - Quality assurance (including DRAP and RTNSS)
 - Subject matter expert interactions (e.g., Chapter 8, 11)
 - Level of detail

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Summary

- DCWG approach is working
- Working groups are coordinating
- Commitment to COLA quality and schedules remains firm

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COL Application Outline		
No.	COLA Part/Chapter	Regulation/ Guidance Document
Part 1	General and Administrative Information	<ul style="list-style-type: none"> ▪ 10 CFR 52.77 ▪ 10 CFR 50.33 ▪ Proposed 10 CFR 52.77 ▪ Proposed 10 CFR 50.33(f)(3) ▪ DG-1145, C.IV.5
Part 2	Final Safety Analysis Report	<ul style="list-style-type: none"> ▪ 10 CFR 52.79(a) and (b) ▪ 10 CFR 50.34(b) ▪ Proposed 10 CFR 52.79(a), (b), and (d) ▪ DG-1145, C.III.2
Part 3	Environmental Report/Supplement	<ul style="list-style-type: none"> ▪ 10 CFR 52.79(a)(1) ▪ Proposed 10 CFR 51.50(c)(1) and (2) ▪ Proposed 10 CFR 52.80(c) ▪ DG-1145, C.II.3
Part 4	Technical Specifications	<ul style="list-style-type: none"> ▪ 10 CFR 52.79(b) ▪ 10 CFR 50.34(b)(6)(vi) ▪ Proposed 10 CFR 52.79(a)(30) ▪ DG-1145, C.III.2, Chapter 16 ▪ DG-1145, C.III.1, Chapter 16
Part 5	Emergency Plan	<ul style="list-style-type: none"> ▪ 10 CFR 52.79(d) ▪ 10 CFR 50.34(b)(6)(v) ▪ 10 CFR 50.47 ▪ Proposed 10 CFR 52.79(a)(21) ▪ DG-1145, C.III.2, Chapter 13 ▪ DG-1145, C.III.1, Section 13.3
Part 6	LWA/Site Redress Plan	<ul style="list-style-type: none"> ▪ 10 CFR 52.79(a)(3) ▪ Proposed 10 CFR 52.79(a)(23) ▪ DG-1145, C.IV.6
Part 7	Generic DCD Departures Report	<ul style="list-style-type: none"> ▪ Section IV.A.2.b of ESBWR Design Certification Rule (future) ▪ DG-1145, C.III.2.6
Part 8	Safeguards/Security Plans	<ul style="list-style-type: none"> ▪ 10 CFR 52.79(b) ▪ 10 CFR 50.34(c) and (d) ▪ Proposed 10 CFR 52.79(a)(35) and (36) ▪ DG-1145, C.III.2, Chapter 13 ▪ DG-1145, C.III.1, Section 13.6

COL Application Outline		
No.	COLA Part/Chapter	Regulation/ Guidance Document
Part 9	Plant-Specific PRA	<ul style="list-style-type: none"> ▪ Proposed 10 CFR 52.80(a) ▪ Proposed 10 CFR 50.34(f)(1)(i) ▪ DG-1145, C.II.1
Part 10	ITAAC	<ul style="list-style-type: none"> ▪ 10 CFR 52.79(c) ▪ Proposed 10 CFR 52.80(b) ▪ DG-1145, C.III.7
Other	Other information will be submitted, as appropriate	<ul style="list-style-type: none"> ▪ Various regulations and guidance documents
	Include Copy of Generic ESBWR DCD	<ul style="list-style-type: none"> ▪ DG-1145, C.IV.2.2
	Include Copy of ESP Application (North Anna, Grand Gulf) and Permit	<ul style="list-style-type: none"> ▪ NRC statements at July 2006 DG-1145 workshop indicating that ESP Application should be included in the COLA

Table 1 Current Schedule Milestones for ESBWR DCD Revisions	
Activity	Schedule Finish Date
Submit DCD Revision 2	10/31/06
Submit DCD Revision 3	2/22/07

Table 2 Current Schedule Milestones for COLA Preparation				
No.	COLA Section	Complete 1st Draft	Complete 2nd Draft	Complete Chapter/Part
Part 1	General and Administrative Information			
--	General Information	10/5/06	4/12/07	6/7/07
--	Financial Information	10/5/06	4/12/07	
--	Other Information	10/4/06	2/2/07	
Part 2	Final Safety Analysis Report			
FSAR Chapter 1	Introduction and General Description			6/1/07
1.1	Introduction	5/11/06 A	2/9/07	
1.2	General Plant Description	6/15/06 A	3/28/07	
1.3	Comparison Tables	5/25/06 A	2/2/07	
1.4	Identification of Agents and Contractors	11/20/06	1/22/07	
1.5	Requirements for Further Technical Information	4/28/06 A	1/2/07	
1.6	Material Incorporated by Reference	6/29/06 A	1/25/07	
1.7	Drawings and Other Detailed Information	5/8/06 A	3/12/07	
1.8	Interfaces for Standard Design	5/25/06 A	3/18/07	
1.9	Conformance with SRP and Codes & Standards	9/15/06 A	4/6/07	
1.10	Summary of COL Items	8/21/06 A	4/6/07	
1.11	Technical Resolutions	8/21/06 A	4/6/07	
Appendices	---	6/29/06 A	4/5/07	
FSAR Chapter 2	Site Characteristics			7/20/07
2.0	Site Characteristics	10/4/06	4/6/07	
2.1	Geography and Demography	5/22/06 A	4/19/07	

Table 2 Current Schedule Milestones for COLA Preparation				
No.	COLA Section	Complete 1st Draft	Complete 2nd Draft	Complete Chapter/Part
2.2	Nearby Industrial, Transportation, and Military Facilities	5/11/06 A	2/26/07	
2.3	Meteorology	9/28/06	4/30/07	
2.4	Hydrology	5/11/06 A	4/25/07	
2.5	Geology, Seismology, and Geotechnical Engineering	5/8/06 A	5/11/07	
FSAR Chapter 3	Design of Structures, Components, Equipment, Systems			7/18/07
3.1	Conformance with NRC General Design Criteria	8/21/06 A	3/5/07	
3.2	Classification of Structures, Systems, and Components	5/25/06 A	5/2/07	
3.3	Wind and Tornado Loadings	7/20/06 A	4/23/07	
3.4	Water Level (Flood) Design	7/20/06 A	4/19/07	
3.5	Missile Protection	7/20/06 A	1/29/07	
3.6	Protection Against Dynamic Effects	6/22/06 A	5/9/07	
3.7	Seismic Design	9/29/06	4/9/07	
3.8	Seismic Category I Structures	10/31/06	4/16/07	
3.9	Mechanical Systems and Components	9/29/06	12/22/06	
3.10	Seismic and Dynamic Qualification	6/22/06 A	1/26/07	
3.11	Environmental Qualification	6/22/06 A	1/26/07	
Appendices	---	9/29/06	5/4/07	
FSAR Chapter 4	Reactor			6/22/07
4.1	Summary Description	8/21/06 A	2/16/07	
4.2	Fuel System Design	8/24/06 A	3/9/07	
4.3	Nuclear Design	11/9/06	4/26/07	
4.4	Thermal and Hydraulic Design	11/21/06	3/13/07	
4.5	Reactor Materials	4/10/06 A	2/23/07	
4A	Typical Control Rod Patterns and Associated Power Distribution for ESBWR	10/13/06	2/23/07	
4B	Fuel Licensing Acceptance Criteria	8/24/06 A	7/23/07	
4C	Control Rod License Acceptance Criteria	7/17/06 A	3/23/07	
4D	Stability Evaluation	12/22/06	3/16/07	
FSAR Chapter 5	Reactor Coolant System and Connected Systems			6/4/07
5.1	Summary Description	6/29/06 A	4/27/07	
5.2	Integrity of Reactor Coolant Pressure	7/27/06 A	3/26/07	

Table 2 Current Schedule Milestones for COLA Preparation				
No.	COLA Section	Complete 1st Draft	Complete 2nd Draft	Complete Chapter/Part
	Boundary			
5.3	Reactor Vessels	8/3/06 A	3/21/07	
5.4	Component and Subsystem Design	6/1/06 A	3/2/07	
FSAR Chapter 6	Engineered Safety Features			6/29/07
6.1	Engineered Safety Feature Materials	6/29/06 A	3/23/07	
6.2	Containment Systems	7/17/06 A	2/7/07	
6.3	Emergency Core Cooling Systems	11/28/06	2/12/07	
6.4	Control Room Habitability Systems	8/24/06 A	3/8/07	
6.5	Atmosphere Cleanup Systems	7/6/06 A	3/2/07	
6.6	ISI of Class 2 and 3 Components	6/29/06 A	3/16/07	
FSAR Chapter 7	Instrumentation and Controls			7/16/07
7.1	Introduction	8/3/06 A	4/9/07	
7.2	Reactor Trip System	7/27/06 A	3/8/07	
7.3	Engineered Safety Features Systems	7/20/06 A	3/23/07	
7.4	Safety-Related and Non-Safety Related Shutdown Systems	7/27/06 A	1/19/07	
7.5	Safety-Related and Non-Safety Related Information Systems	10/20/06	4/6/07	
7.6	Interlock Systems	6/22/06 A	2/1/07	
7.7	Control Systems	6/22/06 A	1/18/07	
7.8	Diverse Instrumentation and Control Systems	7/20/06 A	3/23/07	
7.9	Data Communication Systems	8/3/06 A	2/2/07	
7A	Fixed Incore Calibration System for the Neutron Monitoring System	10/6/06	3/23/07	
7B	Software Quality Program for Hardware/Software Design and Development	8/3/06 A	2/9/07	
FSAR Chapter 8	Electric Power			7/6/07
8.1	Introduction	9/29/06	3/6/07	
8.2	Offsite Power System	5/11/06 A	3/30/07	
8.3	Onsite Power Systems	9/29/06	3/23/07	
8A	Miscellaneous Electrical Systems	5/22/06 A	3/16/07	
8B	Realistic Station Blackout Evaluation	4/10/06 A	1/12/07	
FSAR Chapter 9	Auxiliary Systems			7/20/07

Table 2 Current Schedule Milestones for COLA Preparation				
No.	COLA Section	Complete 1st Draft	Complete 2nd Draft	Complete Chapter/Part
9.1	Fuel Storage and Handling	8/21/06 A	3/9/07	
9.2.1	Plant Service Water System	10/27/06	4/4/07	
9.2.2	Reactor Component Cooling Water System	9/29/06	3/23/07	
9.2.3	Makeup Water System	8/3/06 A	4/10/07	
9.2.4	Potable and Sanitary Water Systems	8/3/06 A	4/13/07	
9.2.5	Ultimate Heat Sink	11/1/06	2/7/07	
9.2.6	Condensate Storage and Transfer System	8/31/06 A	4/6/07	
9.2.7	Chilled Water System	6/22/06 A	4/6/07	
9.2.8	Turbine Component Cooling Water System	6/22/06 A	1/26/07	
9.2.9	COL Information	12/7/06	3/15/07	
9.2.10	References	12/7/06	3/15/07	
9.3.1	Compressed Air Systems	7/27/06 A	4/2/07	
9.3.2	Process Sampling System	7/17/06 A	4/6/07	
9.3.3	Equipment and Floor Drain System	7/17/06 A	3/20/07	
9.3.4	Chemical and Volume Control System	7/20/06 A	3/12/07	
9.3.5	Standby Liquid Control System	7/20/06 A	2/16/07	
9.3.6	Instrument Air System	7/17/06 A	4/2/07	
9.3.7	Service Air System	7/17/06 A	4/2/07	
9.3.8	High Pressure Nitrogen Supply System	7/17/06 A	3/2/07	
9.3.9	Hydrogen Water Chemistry System	7/27/06 A	4/6/07	
9.3.10	Oxygen Injection System	6/1/06 A	4/6/07	
9.3.11	Zinc Injection System	8/31/06 A	3/20/07	
9.3.12	Auxiliary Boiler System	6/1/06 A	3/26/07	
9.3.13	COL Information	9/29/06	3/16/07	
9.3.14	References	9/29/06	3/16/07	
9.4.1	Control Room Area Ventilation System	9/29/06	3/16/07	
9.4.2	Fuel Building HVAC System (FBHVS)	9/29/06	3/2/07	
9.4.3	Radwaste Building Heating, Ventilation and Air Conditioning System	8/31/06 A	2/16/07	
9.4.4	Turbine Building HVAC System	9/29/06	3/2/07	
9.4.5	Engineered Safety Feature Ventilation System	10/13/06	2/9/07	
9.4.6	Reactor Building HVAC System	9/7/06 A	3/16/07	
9.4.7	Electrical Building HVAC System	9/29/06	3/2/07	
9.4.8	Drywell Cooling System	7/17/06 A	2/9/07	
9.4.9	Containment Inerting System	7/17/06 A	3/9/07	
9.4.10	COL Information	11/24/06	3/2/07	
9.4.11	References	11/24/06	3/2/07	
9.5.1	Fire Protection System	10/13/06	3/28/07	

Table 2 Current Schedule Milestones for COLA Preparation				
No.	COLA Section	Complete 1st Draft	Complete 2nd Draft	Complete Chapter/Part
9.5.2	Communications Systems	5/11/06 A	1/30/07	
9.5.3	Lighting System	5/11/06 A	1/30/07	
9.5.4	Diesel Generator Fuel Oil Storage and Transfer System	9/29/06	2/23/07	
9.5.5	Diesel Generator Jacket Cooling Water System	9/29/06	3/26/07	
9.5.6	Diesel Generator Starting Air System	7/17/06 A	3/26/07	
9.5.7	Diesel Generator Lubrication System	9/29/06	3/26/07	
9.5.8	Diesel Generator Combustion Air Intake and Exhaust System	9/29/06	2/16/07	
9.5.9	COL Information	10/13/06	3/20/07	
9.5.10	References	10/13/06	3/20/07	
9A	Fire Hazards Analysis	10/13/06	3/23/07	
9B	Summary of Analysis Supporting Fire Protection Design Requirements	10/13/06	1/5/07	
FSAR Chapter 10	Steam and Power Conversion Systems			7/16/07
10.1	Summary Description	7/20/06 A	3/7/07	
10.2	Turbine Generator	7/20/06 A	5/28/07	
10.3	Turbine Main Steam System	7/20/06 A	5/25/07	
10.4	Other Features of Steam and Power Conversion System	7/20/06 A	4/27/07	
10A	Alternative Design for Steam and Power Conversion System	7/20/06 A	5/4/07	
FSAR Chapter 11	Radioactive Waste Management			5/25/07
11.1	Source Terms	5/8/06 A	4/6/07	
11.2	Liquid Waste Management System	11/3/06	2/2/07	
11.3	Gaseous Waste Management System	11/3/06	3/16/07	
11.4	Solid Waste Management System	11/3/06	2/23/07	
11.5	Process Radiation Monitoring System	6/8/06 A	2/12/07	
FSAR Chapter 12	Radiation Protection			6/4/07
12.1	Ensuring That Occupational Radiation Exposures Are ALARA	6/29/06 A	10/17/06	
12.2	Plant Sources	5/11/06 A	1/18/07	
12.3	Radiation Protection	5/11/06 A	4/9/07	
12.4	Dose Assessment	5/11/06 A	2/21/07	

Table 2 Current Schedule Milestones for COLA Preparation				
No.	COLA Section	Complete 1st Draft	Complete 2nd Draft	Complete Chapter/Part
12.5	Operational Radiation Protection Program	5/4/06 A	10/13/06	
12A	Calculation of Airborne Radionuclides	4/24/06 A	2/5/07	
FSAR Chapter 13	Conduct of Operations			4/27/07
13.1	Organizational Structure of Applicant	4/27/06 A	12/7/06	
13.2	Training	5/22/06 A	10/13/06	
13.3	Emergency Planning	5/4/06 A	12/7/06	
13.4	Review and Audit	4/27/06 A	12/7/06	
13.5	Plant Procedures	4/27/06 A	2/16/07	
13.6	Physical Security	5/4/06 A	10/27/06	
FSAR Chapter 14	Initial Test Program			6/1/07
14.1	Initial Test Program For Preliminary Safety Analysis Reports	NA	NA	
14.2	Initial Plant Test Program For Final Safety Analysis Reports	10/6/06	2/9/07	
14.3	Selection Of Tier 1 Criteria and Processes	6/8/06 A	4/20/07	
FSAR Chapter 15	Safety Analyses			6/29/07
15.0	Analytical Approach	8/31/06 A	5/4/07	
15.1	Nuclear Safety Operational Analysis	8/31/06 A	3/16/07	
15.2	Analysis of Anticipated Operational Occurrences	8/31/06 A	3/16/07	
15.3	Analysis of Infrequent Events	8/31/06 A	2/16/07	
15.4	Analysis of Accidents	7/27/06 A	5/11/07	
15.5	Special Event Evaluations	8/31/06 A	3/16/07	
15A	Event Probability Analyses	8/31/06 A	3/16/07	
15B	LOCA Inventory Curves	8/31/06 A	3/16/07	
FSAR Chapter 16	Technical Specifications	7/6/06 A	6/15/07	6/15/07
FSAR Chapter 17	Quality Assurance			6/7/07
17.0	Introduction	NA	NA	
17.1	Quality Assurance During Design and Construction	12/8/06	1/19/07	
17.2	Quality Assurance During the Operations	9/11/06 A	1/23/07	

Table 2 Current Schedule Milestones for COLA Preparation				
No.	COLA Section	Complete 1st Draft	Complete 2nd Draft	Complete Chapter/Part
	Phase			
17.3	Quality Assurance Program Document	9/11/06 A	1/23/07	
17.4	Reliability Assurance Program During Design Phase	9/11/06 A	4/19/07	
17.5	Quality Assurance Program Description	9/11/06 A	1/26/07	
17.6	Maintenance Rule Program	12/14/06	2/9/07	
FSAR Chapter 18	Human Factors Engineering			6/22/07
18.1	Overview	10/27/06	3/2/07	
18.2	HFE Program Management	10/27/06	4/27/07	
18.3	Operating Experience Review	10/27/06	3/30/07	
18.4	Functional Requirements Analyses and Function Allocation	10/27/06	3/30/07	
18.5	Task Analysis	10/27/06	3/30/07	
18.6	Staffing and Qualifications	10/27/06	3/30/07	
18.7	Human Reliability Analysis	10/27/06	3/30/07	
18.8	Human-System Interface Design	10/27/06	3/30/07	
18.9	Procedure Development	10/27/06	3/30/07	
18.10	Training Program Development	10/27/06	4/13/07	
18.11	Human Factors V&V	10/27/06	3/30/07	
18.12	Design Implementation	10/27/06	4/13/07	
18.13	Human Performance Monitoring	10/27/06	4/13/07	
18.14	Inventory of Controls and Instrumentation	10/27/06	3/30/07	
Appendices	---	10/27/06	3/30/07	
FSAR Chapter 19	PRA and Severe Accidents			9/20/07
19.1	Introduction	8/10/06 A	9/18/07	
19.2	PRA Results and Insights	8/10/06 A	9/18/07	
19.3	Severe Accidents Evaluations	8/10/06 A	9/18/07	
19.4	PRA Maintenance	8/10/06 A	9/18/07	
19.5	ITAACs, Action Items, & Other Commitments	8/10/06 A	9/18/07	
19.6	Conclusions	8/10/06 A	9/18/07	
FSAR Chapter 20	Construction Impacts on Existing Units	10/23/06	6/8/07	6/8/07
Part 3	Environmental Report			

Table 2 Current Schedule Milestones for COLA Preparation				
No.	COLA Section	Complete 1st Draft	Complete 2nd Draft	Complete Chapter/Part
ER Chapter 1	Introduction	TBD	TBD	TBD
ER Chapter 2	Environmental Description	TBD	TBD	TBD
ER Chapter 3	Plant Description	TBD	TBD	TBD
ER Chapter 4	Environmental Impacts of Construction (North Anna) Environmental Effects of Construction (Grand Gulf, River Bend)	TBD	TBD	TBD
ER Chapter 5	Environmental Impacts of Station Operation (North Anna) Environmental Effects of Station Operations (Grand Gulf, River Bend)	TBD	TBD	TBD
ER Chapter 6	Environmental Measurements and Monitoring Programs	TBD	TBD	TBD
ER Chapter 7	Environmental Impacts of Postulated Accidents Involving Radioactive Materials	TBD	TBD	TBD
ER Chapter 8	Need for Power	10/18/06	11/29/06	11/29/06
ER Chapter 9	Alternatives to the Proposed Action	TBD	TBD	TBD
ER Chapter 10	Environmental Consequences of the Proposed Action	TBD	TBD	TBD
Part 4	Technical Specifications	7/6/06 A	6/22/07	6/22/07
Part 5	Emergency Plan	10/16/06	6/1/07	6/1/07
Part 6	LWA/Site Redress Plan	8/31/06 A	12/29/06	12/29/06
Part 7	Generic DCD Departures Report	9/7/06 A	5/18/07	5/18/07

Table 2 Current Schedule Milestones for COLA Preparation				
No.	COLA Section	Complete 1st Draft	Complete 2nd Draft	Complete Chapter/Part
Part 8	Safeguards/Security Plans			4/24/07
--	Physical Security Plan	10/30/06	4/24/07	
--	Training and Qualification Plan	10/30/06	4/24/07	
--	Safeguards Contingency Plan	10/30/06	4/24/07	
Part 9	Plant-Specific PRA	10/13/06	3/30/07	3/30/07
Part 10	ITAAC	NA	NA	

Table 3 Current Schedule Milestones for COLA Review, Compilation, and Submittal		
Activity	Start Date	Finish Date
Page Turn Reviews	6/11/07	8/3/07
Compile Electronic Version	8/6/07	8/24/07
Final Reviews	8/27/07	10/26/07
Prepare Transmittal Letter/Final Approvals	10/29/07	11/9/07
Submit COLA to NRC		11/9/07

Table 4 Current Schedule Milestones for NRC Pre-Application Interactions		
Activity	Start Date	Finish Date
Near Site Pre-Application Public Meetings	TBD	TBD
DG-1145, Section C.IV.7.1.1, "COL Applications Referencing a Certified Design"		
▪ Potential deviations from the certified design	TBD	TBD
▪ Process and schedule for completing ITAAC associated with DAC	TBD	TBD
▪ Plans for addressing DCD COL Items	TBD	TBD
DG-1145, Section C.IV.7.1.2, "COL Applications Referencing an Early Site Permit"		

Table 4 Current Schedule Milestones for NRC Pre-Application Interactions		
Activity	Start Date	Finish Date
▪ Potential deviations from the ESP	TBD	TBD
▪ Plans for Addressing ESP COL Items	TBD	TBD
DG-1145, Section C.IV.7.1.3, "All COL Applications"		
▪ Exemptions from the regulations	TBD	TBD
▪ Deviations from staff guidance	TBD	TBD
▪ Potential policy issues	TBD	TBD
▪ Fabrication schedule for long-lead-time components	TBD	TBD
▪ Schedule for site characterization activities	TBD	TBD
▪ Plans to request LWAs	TBD	TBD
▪ Other site work to support plant construction	TBD	TBD
▪ Source of historical site information for geology, meteorology, and socio-economic data	TBD	TBD
▪ Quality assurance program	TBD	TBD
▪ Design reliability assurance program	TBD	TBD
▪ Analysis needed to support offsite power analysis with RTO	TBD	TBD
▪ Plans for interfacing with other Federal, State, and local agencies	TBD	TBD
▪ Relationship between the COL application and other licensing activities	TBD	TBD
DG-1145, Section C.IV.7.2, "Pre-Application Activities That Support the Environmental Review"	TBD	TBD

ESBWR Standardization Matrix						
Part Chapter Section	Title	Lead Organization Preparing Section	Standardization Assessment ¹			
			Match DCD	Standard	Standard With Site- Specific	Site- Specific
Part 1	General and Administrative Information					
--	General Information	Dominion NuStart Entergy			X (2)	
--	Financial Information	Dominion NuStart Entergy			X (2)	
--	Other Information	Dominion NuStart Entergy			X (2)	
Part 2	Final Safety Analysis Report					
FSAR Chapter 1	Introduction and General Description					
1.1	Introduction	Dominion NuStart Entergy			X (2)	
1.2	General Plant Description	GE			X (1)	
1.3	Comparison Tables	GE		X		
1.4	Identification of Agents and Contractors	Dominion NuStart Entergy			X (2)	
1.5	Requirements for Further Technical Information	GE	X	<=X		
1.6	Material Incorporated by Reference	GE			X (1)	

¹ There are 4 types of ESBWR COLA sections:

- **Match DCD.** These sections are identical to the ESBWR DCD with no additional text, tables, or figures needed in the COLA.
- Standard sections are identical.
- Standard with site-specific. These sections are identical to the extent possible but also contain some site- and/or applicant-specific information. For the site/applicant-specific information, consistent wording and level-of-detail are used.
 - (1) – Standard section that contains a limited amount of site/applicant-specific information.
 - (2) – Standard section that contains a moderate amount of site/applicant-specific information.
- Site-specific sections are not standard and contain site/applicant-specific information.

ESBWR Standardization Matrix						
Part Chapter Section	Title	Lead Organization Preparing Section	Standardization Assessment ¹			
			Match DCD	Standard	Standard With Site- Specific	Site- Specific
1.7	Drawings and Other Detailed Information	GE			X (1)	
1.8	Interfaces for Standard Design	GE		X		
1.9	Conformance with SRP and Codes & Standards	Dominion NuStart Energy			X (2)	
1.10	Summary of COL Items	GE		X=>	X (1)	
1.11	Technical Resolutions	GE			X (1)	
Appendices	---	GE			X (1)	
FSAR Chapter 2	Site Characteristics					
2.0	Site Characteristics	Dominion NuStart Energy				X
2.1	Geography and Demography	Dominion NuStart Energy				X
2.2	Nearby Industrial, Transportation, and Military Facilities	Dominion NuStart Energy				X
2.3	Meteorology	Dominion NuStart Energy				X
2.4	Hydrology	Dominion NuStart Energy				X
2.5	Geology, Seismology, and Geotechnical Engineering	Dominion NuStart Energy				X
FSAR Chapter 3	Design of Structures, Components, Equipment, Systems					
3.1	Conformance with NRC General Design Criteria	GE	X	<=X		
3.2	Classification of Structures, Systems, and Components	GE	X	<=X		
3.3	Wind and Tornado Loadings	GE	X	<=	<=X (1)	
3.4	Water Level (Flood) Design	GE	X	<=	<=X (1)	
3.5	Missile Protection	GE	X	<=	<=X (1)	
3.6	Protection Against Dynamic Effects	GE		X		

ESBWR Standardization Matrix						
Part Chapter Section	Title	Lead Organization Preparing Section	Standardization Assessment ¹			
			Match DCD	Standard	Standard With Site- Specific	Site- Specific
3.7	Seismic Design	GE			X (1)	
3.8	Seismic Category I Structures	GE		X		
3.9	Mechanical Systems and Components	GE		X		
3.10	Seismic and Dynamic Qualification	GE		X		
3.11	Environmental Qualification	GE		X		
Appendices	---	GE		X		
FSAR Chapter 4	Reactor					
4.1	Summary Description	GE	X	<=X		
4.2	Fuel System Design	GE		X		
4.3	Nuclear Design	GE		X		
4.4	Thermal and Hydraulic Design	GE		X		
4.5	Reactor Materials	GE		X		
4A	Typical Control Rod Patterns and Associated Power Distribution for ESBWR	GE	X	<=X		
4B	Fuel Licensing Acceptance Criteria	GE	X	<=X		
4C	Control Rod License Acceptance Criteria	GE	X	<=X		
4D	Stability Evaluation	GE		X		
FSAR Chapter 5	Reactor Coolant System and Connected Systems					
5.1	Summary Description	GE		X		
5.2	Integrity of Reactor Coolant Pressure Boundary	GE		X		
5.3	Reactor Vessels	GE		X		
5.4	Component and Subsystem Design	GE	X	<=X		
FSAR Chapter 6	Engineered Safety Features					
6.1	Engineered Safety Feature Materials	GE		X		
6.2	Containment Systems	GE		X		
6.3	Emergency Core Cooling Systems	GE	X	<=X		
6.4	Control Room Habitability Systems	GE			X (1)	
6.5	Atmosphere Cleanup Systems	GE	X	<=X		
6.6	ISI of Class 2 and 3 Components	GE		X		

ESBWR Standardization Matrix						
Part Chapter Section	Title	Lead Organization Preparing Section	Standardization Assessment ¹			
			Match DCD	Standard	Standard With Site- Specific	Site- Specific
FSAR Chapter 7	Instrumentation and Controls					
7.1	Introduction	GE	X	<=X		
7.2	Reactor Trip System	GE	X	<=X		
7.3	Engineered Safety Features Systems	GE	X	<=X		
7.4	Safety-Related and Non-Safety Related Shutdown Systems	GE	X	<=X		
7.5	Safety-Related and Non-Safety Related Information Systems	GE	X	<=X		
7.6	Interlock Systems	GE	X	<=X		
7.7	Control Systems	GE	X	<=X		
7.8	Diverse Instrumentation and Control Systems	GE	X	<=X		
7.9	Data Communication Systems	GE	X	<=X		
7A	Fixed Incore Calibration System for the Neutron Monitoring System	GE	X	<=X		
7B	Software Quality Program for Hardware/Software Design and Development	GE	X	<=X		
FSAR Chapter 8	Electric Power					
8.1	Introduction	GE			X (1)	
8.2	Offsite Power System	Dominion NuStart Entergy			X (2)	
8.3	Onsite Power Systems	GE			X (1)	
8A	Miscellaneous Electrical Systems	Dominion NuStart Entergy			X (2)	
8B	Realistic Station Blackout Evaluation	GE	X	<=X		
FSAR Chapter 9	Auxiliary Systems					
9.1	Fuel Storage and Handling	GE		X		
9.2.1	Plant Service Water System	Dominion NuStart Entergy			X (2)	
9.2.2	Reactor Component Cooling Water System	GE	X	<=X		

ESBWR Standardization Matrix						
Part Chapter Section	Title	Lead Organization Preparing Section	Standardization Assessment ¹			
			Match DCD	Standard	Standard With Site- Specific	Site- Specific
9.2.3	Makeup Water System	Dominion NuStart Entergy			X (2)	
9.2.4	Potable and Sanitary Water Systems	Dominion NuStart Entergy			X (2)	
9.2.5	Ultimate Heat Sink	Dominion NuStart Entergy			X (1)	
9.2.6	Condensate Storage and Transfer System	GE	X	<=X		
9.2.7	Chilled Water System	GE	X	<=X		
9.2.8	Turbine Component Cooling Water System	GE	X	<=X		
9.2.9	COL Information	GE		X		
9.2.10	References	GE		X		
9.3.1	Compressed Air Systems	GE	X	<=X		
9.3.2	Process Sampling System	GE		X		
9.3.3	Equipment and Floor Drain System	GE		X		
9.3.4	Chemical and Volume Control System	GE	X	<=X		
9.3.5	Standby Liquid Control System	GE	X	<=X		
9.3.6	Instrument Air System	GE	X	<=X		
9.3.7	Service Air System	GE	X	<=X		
9.3.8	High Pressure Nitrogen Supply System	GE	X	<=X		
9.3.9	Hydrogen Water Chemistry System	GE		X		
9.3.10	Oxygen Injection System	GE		X		
9.3.11	Zinc Injection System	GE		X		
9.3.12	Auxiliary Boiler System	GE			X (1)	
9.3.13	COL Information	GE		X		
9.3.14	References	GE		X		
9.4.1	Control Room Area Ventilation System	GE			X (1)	
9.4.2	Fuel Building HVAC System (FBHVS)	GE	X	<=X		
9.4.3	Radwaste Building Heating, Ventilation and Air Conditioning System	GE	X	<=X		
9.4.4	Turbine Building HVAC System	GE	X	<=X		
9.4.5	Engineered Safety Feature	GE	X	<=X		

ESBWR Standardization Matrix						
Part Chapter Section	Title	Lead Organization Preparing Section	Standardization Assessment ¹			
			Match DCD	Standard	Standard With Site- Specific	Site- Specific
	Ventilation System					
9.4.6	Reactor Building HVAC System	GE	X	<=X		
9.4.7	Electrical Building HVAC System	GE	X	<=X		
9.4.8	Drywell Cooling System	GE	X	<=X		
9.4.9	Containment Inerting System	GE		X		
9.4.10	COL Information	GE		X		
9.4.11	References	GE		X		
9.5.1	Fire Protection System	GE			X (1)	
9.5.2	Communications Systems	GE			X (1)	
9.5.3	Lighting System	GE			X (1)	
9.5.4	Diesel Generator Fuel Oil Storage and Transfer System	GE			X (1)	
9.5.5	Diesel Generator Jacket Cooling Water System	GE		X		
9.5.6	Diesel Generator Starting Air System	GE		X		
9.5.7	Diesel Generator Lubrication System	GE		X		
9.5.8	Diesel Generator Combustion Air Intake and Exhaust System	GE		X		
9.5.9	COL Information	GE		X		
9.5.10	References	GE		X		
9A	Fire Hazards Analysis	GE			X (1)	
9B	Summary of Analysis Supporting Fire Protection Design Requirements	GE			X (1)	
FSAR Chapter 10	Steam and Power Conversion Systems					
10.1	Summary Description	GE			X (1)	
10.2	Turbine Generator	GE		X		
10.3	Turbine Main Steam System	GE		X		
10.4	Other Features of Steam and Power Conversion System	GE			X (2)	
10A	Alternative Design for Steam and Power Conversion System	GE		X		
FSAR Chapter 11	Radioactive Waste Management					
11.1	Source Terms	GE		X		

ESBWR Standardization Matrix						
Part Chapter Section	Title	Lead Organization Preparing Section	Standardization Assessment ¹			
			Match DCD	Standard	Standard With Site- Specific	Site- Specific
11.2	Liquid Waste Management System	GE	X	<=X		
11.3	Gaseous Waste Management System	GE		X		
11.4	Solid Waste Management System	GE	X	<=X		
11.5	Process Radiation Monitoring System	GE	X	<=X		
FSAR Chapter 12	Radiation Protection					
12.1	Ensuring That Occupational Radiation Exposures Are ALARA	Dominion		X		
12.2	Plant Sources	GE			X (1)	
12.3	Radiation Protection	GE		X		
12.4	Dose Assessment	GE	X	<=X		
12.5	Operational Radiation Protection Program	Dominion		X		
12A	Calculation of Airborne Radionuclides	GE		X		
FSAR Chapter 13	Conduct of Operations					
13.1	Organizational Structure of Applicant	NuStart			X (1)	
13.2	Training	Dominion		X		
13.3	Emergency Planning	Dominion		X		
13.4	Review and Audit	NuStart		X		
13.5	Plant Procedures	NuStart		X		
13.6	Physical Security	Dominion		X		
FSAR Chapter 14	Initial Test Program					
14.1	Initial Test Program For Preliminary Safety Analysis Reports	GE	X	<=X		
14.2	Initial Plant Test Program For Final Safety Analysis Reports	GE			X (1)	
14.3	Selection Of Tier 1 Criteria and Processes	GE		X		
FSAR Chapter 15	Safety Analyses					
15.0	Analytical Approach	GE		X		

ESBWR Standardization Matrix						
Part Chapter Section	Title	Lead Organization Preparing Section	Standardization Assessment ¹			
			Match DCD	Standard	Standard With Site- Specific	Site- Specific
15.1	Nuclear Safety Operational Analysis	GE	X	<=X		
15.2	Analysis of Anticipated Operational Occurrences	GE		X		
15.3	Analysis of Infrequent Events	GE		X		
15.4	Analysis of Accidents	GE			X (1)	
15.5	Special Event Evaluations	GE		X		
15A	Event Probability Analyses	GE		X		
15B	LOCA Inventory Curves	GE		X		
FSAR Chapter 16	Technical Specifications	GE		X		
FSAR Chapter 17	Quality Assurance					
17.0	Introduction	GE		X		
17.1	Quality Assurance During Design and Construction	GE		X		
17.2	Quality Assurance During the Operations Phase	NuStart		X		
17.3	Quality Assurance Program Document	NuStart		X		
17.4	Reliability Assurance Program During Design Phase	NuStart		X		
17.5	Quality Assurance Program Description	NuStart		X		
17.6	Maintenance Rule Program	NuStart		X		
FSAR Chapter 18	Human Factors Engineering					
18.1	Overview	GE		X		
18.2	HFE Program Management	GE		X		
18.3	Operating Experience Review	GE		X		
18.4	Functional Requirements Analyses and Function Allocation	GE		X		
18.5	Task Analysis	GE		X		
18.6	Staffing and Qualifications	GE		X		
18.7	Human Reliability Analysis	GE		X		
18.8	Human-System Interface Design	GE		X		
18.9	Procedure Development	GE		X		
18.10	Training Program Development	GE		X		

ESBWR Standardization Matrix						
Part Chapter Section	Title	Lead Organization Preparing Section	Standardization Assessment ¹			
			Match DCD	Standard	Standard With Site- Specific	Site- Specific
18.11	Human Factors V&V	GE		X		
18.12	Design Implementation	GE		X		
18.13	Human Performance Monitoring	GE		X		
18.14	Inventory of Controls and Instrumentation	GE		X		
Appendices	---	GE			X (1)	
FSAR Chapter 19	PRA and Severe Accidents					
19.1	Introduction	GE		X		
19.2	PRA Results and Insights	GE		X		
19.3	Severe Accidents Evaluations	GE		X		
19.4	PRA Maintenance	GE		X		
19.5	ITAACs, Action Items, & Other Commitments	GE		X		
19.6	Conclusions	GE		X		
FSAR Chapter 20	Construction Impacts on Existing Units	Dominion NuStart Entergy				X
Part 3	Environmental Report					
ER Chapter 1	Introduction	Dominion NuStart Entergy				X
ER Chapter 2	Environmental Description	Dominion NuStart Entergy				X
ER Chapter 3	Plant Description	Dominion NuStart Entergy				X
ER Chapter 4	Environmental Impacts of Construction (North Anna) Environmental Effects of Construction (Grand Gulf, River Bend)	Dominion NuStart Entergy				X

ESBWR Standardization Matrix						
Part Chapter Section	Title	Lead Organization Preparing Section	Standardization Assessment¹			
			Match DCD	Standard	Standard With Site- Specific	Site- Specific
ER Chapter 5	Environmental Impacts of Station Operation (North Anna) Environmental Effects of Station Operations (Grand Gulf, River Bend)	Dominion NuStart Entergy				X
ER Chapter 6	Environmental Measurements and Monitoring Programs	Dominion NuStart Entergy				X
ER Chapter 7	Environmental Impacts of Postulated Accidents Involving Radioactive Materials	Dominion NuStart Entergy				X
ER Chapter 8	Need for Power	Dominion NuStart Entergy				X
ER Chapter 9	Alternatives to the Proposed Action	Dominion NuStart Entergy				X
ER Chapter 10	Environmental Consequences of the Proposed Action	Dominion NuStart Entergy				X
Part 4	Technical Specifications	GE			X (1)	
Part 5	Emergency Plan	Dominion NuStart Entergy				X
Part 6	LWA/Site Redress Plan	Dominion NuStart Entergy			X (2)	
Part 7	Generic DCD Departures Report	Dominion NuStart Entergy			X (1)	
Part 8	Safeguards/Security Plans					
--	Physical Security Plan	Dominion NuStart Entergy			X (1)	

ESBWR Standardization Matrix						
Part Chapter Section	Title	Lead Organization Preparing Section	Standardization Assessment¹			
			Match DCD	Standard	Standard With Site- Specific	Site- Specific
--	Training and Qualification Plan	Dominion NuStart Entergy			X (1)	
--	Safeguards Contingency Plan	Dominion NuStart Entergy			X (2)	
Part 9	Plant-Specific PRA	GE			X (1)	
Part 10	ITAAC	GE			X (1)	

Categories of Side Heads Draft		
Category	Options for Side Heads	Application
DCD	DCD, Rev. X	Assigned to a heading or sub-heading from the DCD. The revision number is included as a configuration management tool.
Departures from the DCD	DEP X.Y.Z-# NAPS DEP X.Y.Z-# GG DEP X.Y.Z-# RB DEP X.Y.Z-#	Assigned to a departure from the DCD. The 'DEP' option is assigned to a departure that is identical for North Anna, Grand Gulf, and River Bend. The other options are site-specific. Each departure is sequentially numbered based on the FSAR subsection (X.Y.Z) that contains the departure. Each category of departure is numbered separately (i.e., a subsection could contain a DEP X.Y.Z-1 and GG DEP X.Y.Z-1).
Responses to COL Items	COL # NAPS COL # GG COL # RB COL #	Assigned to a response to a COL Item. The 'COL' option is assigned to a response that is identical for North Anna, Grand Gulf, and River Bend. The other options are site-specific. The side head for each response includes the COL Item number assigned by the DCD.
Replacement of Conceptual Design Information	CDI REP NAPS CDI REP GG CDI REP RB CDI REP	Assigned to actual design information that replaces the DCD's conceptual design information. The 'CDI REP' option is assigned to information that is identical for North Anna, Grand Gulf, and River Bend. The other options are site-specific. The side head is not numbered.
Responses to ESP COL Items	ESP COL # NAPS ESP COL # GG ESP COL#	Assigned to a response to an ESP's FSER COL Item. The 'ESP COL' option is assigned to a response that is identical for North Anna and Grand Gulf. The other options are site-specific. The side head for each response includes the COL Item number assigned by the FSER.
Variances from the ESP	NAPS VAR X.Y.Z-# GG VAR X.Y.Z-#	Assigned to a variance from the ESP. Each variance is sequentially numbered based on the FSAR subsection (X.Y.Z) that includes the variance.

Categories of Side Heads Draft		
Category	Options for Side Heads	Application
Responses to ESP Permit Conditions	NAPS PC # GG PC #	Assigned to a response to an ESP permit condition. The side head for each response includes the condition number assigned by the permit.
Miscellaneous Supplemental Information	SUPP NAPS SUPP GG SUPP RB SUPP	Assigned to new information that does not fit into the other categories. The 'SUPP' option is assigned to information that is identical for North Anna, Grand Gulf, and River Bend. The other options are site-specific. The side head is not numbered.

Notes:

- It is possible that the same information may be assigned more than one category.
- The method for presenting supplemental information that will be in tables and figures will be addressed later.
- The types of delimiters that will be used to identify the beginning and ending of the information associated with each of the side heads (such as inserting horizontal lines before and after the supplemental information) will be addressed later.

Draft ESBWR FSAR Examples

Example 1 — COLA Matches DCD

DCD Rev. 1 **28.2 NULLAM PULVINAR**

The information in this section of the referenced DCD is incorporated.

Draft ESBWR FSAR Examples

Example 2 — STD COLA

DCD Rev. 1 **28.2 NULLAM PULVINAR**

28.2.1 Description

The information in this section of the referenced DCD is incorporated.

28.2.2 Pellentesque Odio

The information in this section of the referenced DCD is incorporated, with the following departures and supplements.

COL 28.2.4.1 Pellentesque turpis. Pellentesque id ipsum. Duis sapien purus, molestie id, commodo quis, convallis in, dui. Pellentesque gravida. Fusce sit amet est. Phasellus vulputate semper nisl. Ut gravida diam nec nisl. In nibh. Mauris at dui a nunc accumsan tincidunt. Proin vitae ipsum. Pellentesque odio. Sed mollis dui commodo tellus. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos.

SUPP Suspendisse tincidunt, orci quis porttitor rhoncus, felis tortor ornare est, vitae pellentesque ipsum tortor ut neque. Proin gravida eros ac orci tristique facilisis.

28.2.3 Auctor Tincidunt Justo

The information in this section of the referenced DCD is incorporated, with the following departures and supplements.

COL 28.2.4.2 Nunc elementum fringilla elit. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Integer gravida.

DEP 28.2.3 Cras mi. Integer dui turpis, ~~dietum in~~ luctus sit amet, ultricies non, pede. Donec scelerisque. Vivamus feugiat elit ut nibh. Aliquam vestibulum libero id odio. Nulla consequat aliquam sapien.

28.2.4 COL Information

28.2.4.1 Curabitur Congue Imperdiet

COL This COL item is addressed in Subsection 28.2.2.

28.2.4.2 Morbi Justo Sem

COL This COL item is addressed in Subsection 28.2.3.

Draft ESBWR FSAR Examples

Example 3 — COLA Incorporates DCD with Plant-Specific

DCD Rev. 1

28.2 NULLAM PULVINAR

28.2.1 Description

The information in this section of the referenced DCD is incorporated.

28.2.2 Pellentesque Odio

The information in this section of the referenced DCD is incorporated, with the following departures and supplements.

NAPS

COL 28.2.4.1

Pellentesque turpis. Pellentesque id ipsum. Duis sapien purus, molestie id, commodo quis, convallis in, dui. Pellentesque gravida. Fusce sit amet est. Phasellus vulputate semper nisl. Ut gravida diam nec nisl. In nibh. Mauris at dui a nunc accumsan tincidunt. Proin vitae ipsum. Pellentesque odio. Sed mollis dui commodo tellus. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos.

COL

Holder 28.2.2

Pellentesque turpis. Pellentesque id ipsum. Duis sapien purus, molestie id, commodo quis, convallis in, dui. Pellentesque gravida. Fusce sit amet est. Phasellus vulputate semper nisl. Ut gravida diam nec nisl. In nibh. Mauris at dui a nunc accumsan tincidunt. Proin vitae ipsum. Pellentesque odio. Sed mollis dui commodo tellus. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos.

SUPP

Suspendisse tincidunt, orci quis porttitor rhoncus, felis tortor ornare est, vitae pellentesque ipsum tortor ut neque. Proin gravida eros ac orci tristique facilisis.

28.2.3 Auctor Tincidunt Justo

The information in this section of the referenced DCD is incorporated, with the following departures and supplements.

COL 28.2.4.2

Nunc elementum fringilla elit. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Integer gravida.

NAPS

DEP 28.2.3

Cras mi. Integer dui turpis, dictum in, ~~huctus sit amet~~, ultricies non, pede. Vivamus feugiat elit ut nibh. Donec scelerisque. Aliquam vestibulum libero id odio. Nulla consequat aliquam sapien.

28.2.4 COL Information

28.2.4.1 Curabitur Congue Imperdiet

COL

This COL item is addressed in Subsection 28.2.2.

28.2.4.2 Morbi Justo Sem

COL

This COL item is addressed in Subsection 28.2.3.

Draft ESBWR FSAR Examples

Example 4 — COLA Plant-Specific

DCD Rev. 1

28.2 NULLAM PULVINAR

28.2.1 Description

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Morbi sit amet sapien. Pellentesque metus urna, lacinia vel, tristique a, malesuada convallis, ligula. Fusce sollicitudin, libero vitae pellentesque blandit, velit nulla convallis velit, ut porttitor tortor leo a urna. Donec leo pede, suscipit facilisis, fermentum a, vestibulum quis, neque. Nulla eu erat. Proin purus lectus, aliquet eget, sollicitudin eget, euismod vel, justo. Sed augue sapien, euismod eget, facilisis quis, pretium vitae, ipsum. Mauris metus arcu, ullamcorper in, tincidunt sed, hendrerit vitae, neque. Nullam mollis pharetra libero. Quisque enim. Proin gravida elementum massa. Etiam nec orci id leo elementum malesuada. Pellentesque ligula lectus, pharetra eleifend, dictum vitae, gravida in, nulla. Sed mollis quam feugiat mauris. Vivamus dolor neque, tempus sed, iaculis vel, molestie in, enim. Ut odio elit, consequat vel, auctor non, suscipit vel, sem.

NAPS SUPP

Donec scelerisque. Donec ut dolor ut nisl molestie convallis. Nam accumsan sem sed velit. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Nam lorem sem, pulvinar ac, volutpat at, viverra sit amet, nulla. Aliquam sollicitudin facilisis libero. Curabitur tempus. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Donec vel nisi quis dui vestibulum aliquet. Integer aliquam leo id orci. Vivamus eu enim. Praesent quis diam. Mauris porta, augue quis blandit sagittis, augue nibh blandit mi, id semper neque nibh quis urna. In hac habitasse platea dictumst.

28.2.1.1 Pellentesque Odio

Suspendisse porta eleifend sem. Sed nibh ligula, auctor sit amet, posuere pellentesque, feugiat nec, velit. Nullam justo lorem, pulvinar id, vestibulum sit amet, sollicitudin et, lorem. Integer vehicula lectus non enim. In porttitor eleifend est. Praesent faucibus justo ut ipsum. Etiam dictum dolor. Nulla vel augue sed dui fringilla malesuada. Integer erat lectus, adipiscing vel, ullamcorper id, consequat non, magna. Curabitur feugiat pede ullamcorper massa. Mauris lectus. Vivamus id justo. Praesent aliquam. Suspendisse convallis.

COL 28.2.4.1

Pellentesque turpis. Pellentesque id ipsum. Duis sapien purus, molestie id, commodo quis, convallis in, dui. Pellentesque gravida. Fusce sit amet est. Phasellus vulputate semper nisl. Ut gravida diam nec nisl. In nibh. Mauris at dui a nunc accumsan tincidunt. Proin vitae ipsum. Pellentesque odio. Sed mollis dui commodo tellus. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos.

Praesent tortor nunc, ullamcorper quis, ullamcorper quis, molestie sed, augue. Praesent sagittis. Vestibulum dictum nunc et lacus. Praesent fermentum ipsum sit amet mi. Sed varius odio iaculis magna. Suspendisse tempor arcu quis eros aliquam fringilla. Suspendisse elit. Curabitur ullamcorper mi non elit. Nunc auctor. Aenean tincidunt est sed ligula.

Draft ESBWR FSAR Examples

Example 4 — COLA Plant-Specific

28.2.1.2 Auctor Tincidunt Justo

Morbi non magna et orci viverra lobortis. Nullam eget elit ut eros ornare tristique. Curabitur sollicitudin tristique ante. Suspendisse tincidunt tempor turpis. In vitae ipsum a est consequat ultricies. Fusce adipiscing, ante sagittis viverra congue, est dolor ultrices lectus, at ultricies justo nisl in massa. Sed ligula. Fusce dapibus. Nulla nisi dui, dignissim ut, bibendum vel, tempor nec, lacus. Morbi nec nisi. Donec sit amet arcu quis nisi eleifend mollis. Cras luctus, erat ac feugiat rutrum, justo massa pharetra est, vel dictum justo leo sed dui. Quisque ut augue. Curabitur in enim.

NAPS
DEP 28.2.1.2

Cras mi. Integer dui turpis, dictum in, ~~luctus sit amet~~, ultricies non, pede. Vivamus feugiat elit ut nibh. Donec scelerisque. Aliquam vestibulum libero id odio. Nulla consequat aliquam sapien.

Quisque nulla arcu, condimentum vitae, condimentum in, vestibulum ac, enim. Donec nibh magna, lobortis pellentesque, dignissim vitae, ullamcorper quis, quam. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin id risus. Nullam facilisis ante porttitor libero. Aenean mattis fermentum enim. Maecenas luctus vulputate tortor. Curabitur non pede eget turpis tempus condimentum. Sed dictum volutpat est. Sed id elit nec pede ornare vehicula. Suspendisse erat nulla, ultricies sit amet, dictum vel, lacinia sit amet, metus. Sed ut arcu. Quisque vestibulum erat non pede. Sed leo. Fusce tincidunt eros id lectus.

NAPS
COL 28.2.4.2

Nunc elementum fringilla elit. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Integer gravida.

Aenean vestibulum quam eu erat. Integer dolor. Phasellus lacus est, pharetra tristique, lobortis a, imperdiet sit amet, est. Mauris nec libero. Etiam pharetra, odio sit amet pharetra posuere, dui mi sagittis erat, vitae nonummy quam lacus vitae lacus. Maecenas venenatis pede quis urna. Duis diam. Curabitur vitae nulla. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Maecenas id felis.

NAPS SUPP

Aenean tempor malesuada diam. Fusce tristique magna vitae elit. Nunc est tortor, egestas ut, aliquet nec, ultrices eget, risus. Nam pretium leo vitae nulla. In vehicula. Morbi leo sem, iaculis eget, suscipit ac, euismod eget, magna. Maecenas ut augue at accumsan rutrum. Integer vehicula ante scelerisque nibh. Pellentesque commodo dictum ante. Nulla pharetra odio vitae mauris. Etiam sollicitudin sem et erat.

28.2.2 Class Aptent Taciti

Vestibulum tempor velit quis ipsum. Cras tortor ligula, egestas a, euismod vitae, molestie commodo, tortor. Phasellus molestie. Duis ut justo non nulla molestie iaculis. Maecenas nec lectus quis nisl pretium mattis. Integer sed lectus. Phasellus eleifend, tellus eget elementum fringilla, est nulla tristique odio, in convallis nisi velit et enim. Cras rutrum dui id nunc. Curabitur in neque. Fusce sapien purus,

Draft ESBWR FSAR Examples

Example 4 — COLA Plant-Specific

scelerisque ac, gravida ac, cursus ut, eros. Nam ante. Sed ante. Pellentesque ullamcorper dui ut urna.

28.2.3 Nulla Euismod (Congue)

Curabitur at mauris rhoncus dolor lobortis pharetra. Praesent malesuada egestas nibh. Aliquam erat volutpat. Nam placerat suscipit pede. Sed non dui at mi ultrices nonummy. Nunc dapibus sagittis nulla. Fusce non est. Nullam venenatis pellentesque enim. In sit amet lacus. Nulla in dui et est lobortis semper. Ut quis arcu. Praesent arcu erat, mattis sit amet, mattis id, lobortis nec, magna. Sed faucibus odio vel dui. Donec tempor lacus ac odio. Cras tristique. Morbi ornare tellus faucibus urna. Quisque non enim in diam euismod pellentesque. Praesent vel erat. Sed eu velit vel diam ultrices semper.

NAPS SUPP

Nulla vehicula, urna vitae placerat semper, arcu elit rhoncus tortor, ac pellentesque elit diam et justo. Vestibulum tellus. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Ut placerat aliquet sem. Vivamus consetetur diam vel eros. Aliquam ac lacus sit amet ipsum vehicula interdum. Vivamus at dui. Donec lacinia. Suspendisse id libero. Nullam ipsum erat, dictum eu, cursus ac, facilisis eget, nulla. Sed accumsan ipsum id erat placerat gravida. Curabitur mattis aliquam elit. Duis porta, erat sit amet porttitor viverra, urna justo suscipit nulla, quis accumsan nisl diam eu arcu. Phasellus suscipit tellus et massa. Aenean tincidunt sem a mauris. Ut blandit lorem eu lorem. Quisque vestibulum imperdiet augue. Praesent nunc justo, sodales sed, tincidunt vitae, volutpat eu, felis. Pellentesque interdum ante et ligula vulputate interdum. Fusce sagittis dapibus leo.

Morbi urna augue, elementum ac, gravida vel, fringilla quis, tortor. Nam consequat sapien a tellus. Suspendisse potenti. Etiam elementum ligula consetetur odio. In ultricies elementum odio. Mauris ac augue at turpis tristique congue. Etiam faucibus, est et congue congue, quam metus convallis dolor, ut pulvinar ipsum sapien ac tellus. Integer quis quam dictum purus vehicula pellentesque. Curabitur justo. Sed porta faucibus elit. In hac habitasse platea dictumst. In hac habitasse platea dictumst. Integer id felis vitae diam sagittis luctus. Nulla fringilla facilisis nulla. Nullam a dui non felis tristique semper. Proin facilisis ante sed turpis. Maecenas erat.

28.2.4 COL Information

28.2.4.1 Curabitur Congue Imperdiet

COL

This COL item is addressed in Subsection 28.2.1.1.

28.2.4.2 Morbi Justo Sem

COL

This COL item is addressed in Subsection 28.2.1.2.
