



NuStart Energysm

August 14, 2006

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

ATTN: Stephanie Coffin

SUBJECT: NuStart Bellefonte COL Project - NRC Project No. 740
AP-1000 Pre-Application Submittals

REFERENCES: Letter from Peter Hastings to Document Control Desk;
AP-1000 Pre-Application Submittals; dated May 26, 2006

In the referenced letter, NuStart committed to provide regular updates to the NRC of the schedule for submittal of several AP1000 technical reports for pre-application review. Enclosure 1 contains the most recent update, which reflects changes to the schedule to date, including various interim updates that have been communicated to the NRC Staff. Westinghouse representatives have provided input to and concurrence with the enclosed schedule.

Enclosure 1 includes information on additions and deletions (i.e., in the *Comments* column), including minor changes in details such as transmittal numbers. The most notable changes include:

- TRs 01, 08 Rev 1, 16, and 54 reflect actual as-issued dates;
- TRs 10, 11c, 29, 30, 33, and 61 reflect amended dates communicated in a prior interim update; and
- TR 62 Rev 1 added to reflect pending revision to incorporate NRC comments.

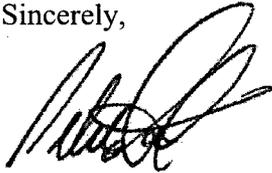
Please note that this schedule is based on NuStart's best estimate of future activities, and is subject to change. As previously indicated, NuStart will supply schedule status information to the Staff monthly, and will notify the Staff on a timely basis in the event of significant changes. Further, as pre-application interactions proceed, additional future submittals may be identified and will be closely coordinated with the Staff.

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As always, your continued support of pre-application reviews is greatly appreciated. If you have any questions, please contact me at (980) 373-7820 or at pshastings@duke-energy.com.

Sincerely,



Peter S. Hastings, PE
AP-1000 Reference Plant Licensing Lead

Enclosure: AP-1000 Pre-Application Submittal Schedule

cc: S. D. Bloom, NRC
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Enclosure 1: AP-1000 Pre-Application Submittal Schedule

<i>TR</i>	<i>COL Item</i>	<i>DCD Section</i>	<i>Subject</i>	<i>Document Number (NRC Transmittal)</i>	<i>Submittal Date to NRC¹ and Status</i>	<i>NRC Technical Review Completion²</i>	<i>Comments</i>
01	1.1-1	1.1.7	Construction and Startup Schedule	APP-GW-GLR-036 (DCP/NRC1768)	8/7/06 ISSUED	TBD	
03	3.7.2	3.7.2	Extension of NI Structures Seismic Analysis to Soil Sites	APP-GW-S2R-010 (DCP/NRC1751) (DCP/NRC1765)	6/14/06 7/28/06 ISSUED	TBD	DCP/NRC1765 added to correct TR number from TR 15 to TR 03
05	3.3-1	3.3.3	Wind and Tornado Site Interface Criteria	N/A	DEFERRED DEFERRED	N/A	TR deferred indefinitely; did not sufficiently address COL info item to facilitate closure without site-specific data
06	3.6-1	3.6.4.1	Pipe Break Hazards Analysis (As-Built Report)	APP-GW-GLR-021 (DCP/NRC1746)	6/5/06 ISSUED	TBD	
06	3.6-3	3.6.4.3	Leak-Before-Break Evaluation of as-Built Piping (As-Built Report)	APP-GW-GLR-021 (DCP/NRC1746)	6/5/06 ISSUED	TBD	
06	3.7-3	3.7.5.3	Seismic Interaction Review (As-Built Report)	APP-GW-GLR-021 (DCP/NRC1746)	6/5/06 ISSUED	TBD	
06	3.7-4	3.7.5.4	Reconciliation of Seismic Analyses of Nuclear Island Structures (As-Built Report)	APP-GW-GLR-021 (DCP/NRC1746)	6/5/06 ISSUED	TBD	

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06	3.8-2	3.8.6.2	Passive Containment Cooling System Water Storage Tank Examination (As-Built Report)	APP-GW-GLR-021 (DCP/NRC1746)	6/5/06 ISSUED	TBD	
06	3.8-3	3.8.6.3	As-Built Summary Report (As-Built Report)	APP-GW-GLR-021 (DCP/NRC1746)	6/5/06 ISSUED	TBD	
06	3.8-4	3.8.6.4	In-Service Inspection of Containment Vessel (As-Built Report)	APP-GW-GLR-021 (DCP/NRC1746)	6/5/06 ISSUED	TBD	
06	3.9-2	3.9.8.2	Design Specification and Reports (As-Built Report)	APP-GW-GLR-021 (DCP/NRC1746)	6/5/06 ISSUED	TBD	
06	5.3-1	5.3.6.1	Reactor Vessel Pressure - Temperature Limit Curves (As-Built Report)	APP-GW-GLR-021 (DCP/NRC1746)	6/5/06 ISSUED	TBD	
06	5.3-4	5.3.6.4	Reactor Vessel Materials Properties Verification (As-Built Report)	APP-GW-GLR-021 (DCP/NRC1746)	6/5/06 ISSUED	TBD	As-built portion; TR 24 addresses balance of COL information item
06	10.2-1	10.2.6	Turbine Maintenance and Inspection (As-Built Report)	APP-GW-GLR-021 (DCP/NRC1746)	6/5/06 ISSUED	TBD	
06	13.6-2	13.6.13.2	Vital Equipment Verification (As-Built Report)	APP-GW-GLR-021 (DCP/NRC1746)	6/5/06 ISSUED	TBD	New as of 26-May-06 update
06	14.4-6	14.4.6	First-Plant-Only and Three-Plant-Only Tests (As-Built Report)	APP-GW-GLR-021 (DCP/NRC1746)	6/5/06 ISSUED	TBD	New as of 26-May-06 update

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06	19.59.10-1	19.59.10.5	As-Built SSC HCLPF Comparison to Seismic Margin Evaluation (As-Built Report)	APP-GW-GLR-021 (DCP/NRC1746)	6/5/06 ISSUED	TBD	As-built portion; TR 68 addresses balance of COL Information Item
06	19.59.10-2	19.59.10.5	Baseline PRA (As-Built Report)	APP-GW-GLR-021 (DCP/NRC1746)	6/5/06 ISSUED	TBD	
06	19.59.10-3	19.59.10.5	Internal Fire and Internal Flood Analyses (As-Built Report)	APP-GW-GLR-021 (DCP/NRC1746)	6/5/06 ISSUED	TBD	
06	19.59.10-5	19.59.10.5	Equipment Survivability (As-Built Report)	APP-GW-GLR-021 (DCP/NRC1746)	6/5/06 ISSUED	TBD	
07	3.6-1	3.6.4.1	Pipe Break Hazards Analysis	TBD	PENDING 1/26/07	TBD	
08	3.6-2	3.6.4.2	Leak-Before-Break Evaluation of as-Designed Piping	APP-GW-GLR-022 (DCP/NRC1747)	6/05/06 ISSUED	TBD	
08 Rev. 1	3.6-2	3.6.4.2	Leak-Before-Break Evaluation of as-Designed Piping	APP-GW-GLR-022 Revision 1 (DCP/NRC1763)	7/19/06 ISSUED	TBD	Update to address pressurizer surge line. Added transmittal letter information
09	3.8-1	3.8.6.1	Containment Vessel Design Adjacent to Large Penetrations	APP-GW-GLR-005 (DCP/NRC1734)	5/22/06 ISSUED	TBD	

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10	3.9-1	3.9.8.1	Reactor Internal Vibration Response	TBD	PENDING 3/30/07	TBD	Submittal Date revised to allow efficient use of Westinghouse, Nustart, and NRC resources
11a	3.9-2	3.9.8.2	Design Specification and Reports (CMT)	TBD	PENDING 10/6/06	TBD	See note 3
11b	3.9-2	3.9.8.2	Design Specification and Reports (Accumulator)	TBD	PENDING 10/6/06	TBD	See note 3
11c	3.9-2	3.9.8.2	Design Specification and Reports (RVI)	TBD	PENDING 1/31/07	TBD	Submittal Date revised to allow efficient use of Westinghouse, Nustart, and NRC resources. See note 3
11d	3.9-2	3.9.8.2	Design Specification and Reports (Pressurizer)	TBD	PENDING 3/6/07	TBD	See note 3
11e	3.9-2	3.9.8.2	Design Specification and Reports (RCP)	TBD	PENDING 3/6/07	TBD	See note 3
11f	3.9-2	3.9.8.2	Design Specification and Reports (PXS Hx)	TBD	PENDING 4/10/07	TBD	See note 3
11g	3.9-2	3.9.8.2	Design Specification and Reports (IHP)	TBD	PENDING 5/9/07	TBD	See note 3

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11h	3.9-2	3.9.8.2	Design Specification and Reports (RV)	TBD	PENDING 5/9/07	TBD	See note 3
11i	3.9-2	3.9.8.2	Design Specification and Reports (SG)	TBD	PENDING 8/9/07	TBD	See note 3
11j	3.9-2	3.9.8.2	Design Specification and Reports (CRDM)	TBD	PENDING 2/17/07	TBD	See note 3
12	3.9-2	3.9.8.2	Design Specification and Reports (Void Swelling)	APP-GW-GLR-035 (DCP/NRC1767) WCAP-16620-P WCAP-16620-NP	7/31/06 ISSUED	TBD	P = Proprietary, NP = Non-proprietary
13	3.9-2	3.9.8.2	Design Specification and Reports (Thermal Cycling)	TBD	PENDING 1/22/07	TBD	
15	3.9-6	3.9.8.6	Piping Benchmark Program	APP-GW-GLR-006 (DCP/NRC1728)	3/31/06 ISSUED	8/31/06	
16	3.10-1	3.10.6	Experience-Based Qualification	TBD	PENDING 9/8/06	TBD	Previously deferred to allow NRC comments on TR 62 to be addressed and incorporated
18	4.2-1	4.2.5	Changes to Reference Reactor Design	TBD	PENDING 10/31/06	TBD	
18	4.3-1	4.3.4	Changes to Reference Reactor Design	TBD	PENDING 10/31/06	TBD	

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18	4.4-1	4.4.7	Changes to Reference Reactor Design	TBD	PENDING 10/31/06	TBD	
18	4.4-2	4.4.7	Confirm Assumptions for Safety Analyses DNBR Limits	TBD	PENDING 10/31/06	TBD	
23	5.3-3	5.3.6.3	Surveillance Capsule Lead Factor and Azimuthal Location Confirmation	TBD	PENDING 9/29/06	TBD	
24	5.3-4	5.3.6.4	Reactor Vessel Materials Properties Verification	TBD	PENDING 11/30/06	TBD	New as of 26-May-06 update; see TR 6 for as-built portion
24	5.3-5	5.3.6.5	Reactor Vessel Insulation	TBD	PENDING 11/30/06	TBD	
26	6.3-2	6.3.8.2	Verification of Containment Resident Particulate Debris Characteristics	TBD	PENDING 10/31/06	TBD	
27	6.4-3	6.4.7	Main Control Room Inleakage Test Frequency	APP-GW-GLR-007 (DCP/NRC1728)	3/31/06 ISSUED	10/31/06	
28	7.1-1	7.1.6	Setpoint Calculations for Protective Functions	APP-GW-GLR-024 (DCP/NRC1744) WCAP-16361-P (DCP/NRC1745) WCAP-16361-NP (DCP/NRC1752)	5/31/06 ISSUED	TBD	P = Proprietary, NP = Non-proprietary

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29	3.9	3.9	Reactor Internals Neutron Pads	APP-GW-GLN-012 (DCP/NRC TBD)	PENDING 11/10/06	TBD	Submittal Date revised to allow efficient use of Westinghouse, Nustart, and NRC resources
30	3.9	3.9	Control Rod Drive System	TBD	PENDING 11/30/06	TBD	Submittal Date revised to allow efficient use of Westinghouse, Nustart, and NRC resources
31	4.5	4.5	Reactor Internals Materials	APP-GW-GLN-015 (DCP/NRC1766) WCAP-16624-P WCAP-16624-NP	7/31/06 ISSUED	TBD	P = Proprietary, NP = Non-proprietary
32	5.2	5.2	Zinc Addition	APP-GW-GLN-002 (DCP/NRC1729)	4/5/06 ISSUED	10/31/06	
33	5.2	5.2	Reactor Coolant Boundary Materials	APP-GW-GLN-009 (DCP/NRC TBD)	PENDING 9/30/06	TBD	Submittal Date revised to allow efficient use of Westinghouse, Nustart, and NRC resources. Added document number.
34	5.4	5.4	Generic Reactor Coolant Pump	TBD	PENDING 11/30/06	TBD	Submittal Date revised to allow efficient use of Westinghouse, Nustart, and NRC resources

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35	5.4	5.4	Steam Generator Description Changes	APP-GW-GLN-010 (DCP/NRC TBD)	PENDING 11/30/06	TBD	Previously deferred to account for discrepancies discovered during design change review. New submittal date provided. Added document number.
36	5.4	5.4	Pressurizer Configuration	APP-GW-GLR-016 (DCP/NRC1749) (DCP/NRC1764)	6/5/06 7/20/06 ISSUED	TBD	
37	6.2	6.2	Hydrogen Igniter Locations	APP-GW-GLN-003 (DCP/NRC1729)	4/5/06 ISSUED	8/31/06	
38	6.3	6.3	PRHR Hx Design	APP-GW-GLN-001 (DCP/NRC1729)	4/5/06 ISSUED	10/31/06	
39	7.2	7.2	I&C Design Changes	APP-GW-GLN-004 (DCP/NRC1737)	5/22/06 ISSUED	TBD	
40	16.1	16.1	ES Actuation System Instrumentation	DELETED	N/A N/A	N/A	TR deleted in 26-May-06 letter; information to be addressed in other pre-application interactions or with COL application
41	16.1	16.1	Minimum Reactor Coolant System Flow	DELETED	N/A N/A	N/A	TR deleted in 26-May-06 letter; information to be addressed in other pre-application interactions or with COL application

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42	7.1-2	7.1.6	Resolution of Generic Open Items and Plant-Specific Action Items	APP-GW-GLR-017 (DCP/NRC1736)	5/22/06 ISSUED	TBD	
43	7.2-1	7.2.3	FMEA and SHA for Protection and Safety Monitoring System (Summary Report)	APP-GW-GLR-018 (DCP/NRC1758)	6/30/06 ISSUED	TBD	Deferred from original due date to incorporate design change (cf. TR 42); new due date 07-Jul-06, submitted 30-Jun-06; subject changed to reflect actual submittal
43	7.2-1	7.2.3	FMEA for the Protection and Safety Monitoring System	WCAP-16438-P, R1 WCAP-16438-NP, R1 (DCP/NRC1756)	6/30/06 ISSUED	TBD	Supporting document for TR 43, includes proprietary and non-proprietary versions; subject previously changed to reflect actual submittals
43	7.2-1	7.2.3	SHA for the Protection and Safety Monitoring System	WCAP-16592-P WCAP-16592-NP (DCP/NRC1757)	6/30/06 ISSUED	TBD	Supporting document for TR 43, includes proprietary and non-proprietary versions; subject previously changed to reflect actual submittals
44	9.1-1	9.1.6	New Fuel Rack Design & Structural Analysis	APP-GW-GLR-026 (DCP/NRC1740)	5/29/06 ISSUED	TBD	
45	9.5-5	9.5.1.8	Operator Actions Minimizing Spurious ADS Actuation	APP-GW-GLR-027 (DCP/NRC1753)	6/30/06 ISSUED	TBD	
46	9.5-7	9.5.1.8	Fire Resistance Test Data	APP-GW-GLR-019 (DCP/NRC1741)	5/29/06 ISSUED	TBD	

<i>TR</i>	<i>COL Item</i>	<i>DCD Section</i>	<i>Subject</i>	<i>Document Number (NRC Transmittal)</i>	<i>Submittal Date to NRC¹ and Status</i>	<i>NRC Technical Review Completion²</i>	<i>Comments</i>
48	11.2-3	11.2.5.3	Identification of Ion Exchange and Adsorbent Media	APP-GW-GLR-008 (DCP/NRC1728)	3/31/06 ISSUED	8/31/06	
48	11.3-2	11.3.5.2	Identification of Adsorbent Media	APP-GW-GLR-008 (DCP/NRC1728)	3/31/06 ISSUED	8/31/06	
49	13.6-1	13.6.13.1	Security Plans, Organization and Testing	TBD	PENDING 12/31/06	TBD	
52	18.5-2	18.5.4	Main Control Room	APP-GW-GLR-010 (DCP/NRC1731)	4/6/06 ISSUED	11/30/06	
54	9.1-3	9.1.6	Spent Fuel Racks Design & Structural Analysis	APP-GW-GLR-033 (DCP/NRC1760) (DCP/NRC1764)	7/7/06 7/20/06 ISSUED	TBD	
55	18.11-1	18.11.1	V&V of AP1000 Human Factors Engineering Program	N/A	DELETED DELETED	N/A	TR deleted in 26-May-06 letter; information to be addressed in other pre-application interactions or with COL application; will be addressed in Chapter 18 White Paper; Added COL Item & DCD Section numbers

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56	2.5-12	2.5.4.5.9	Static and Dynamic Stability of Facilities	N/A	DELETED	N/A	TR deleted in 26-May-06 letter; standard design information to be included in TR 57; site-specific information to be addressed in other pre-application interactions or COL application; Added COL Item & DCD Section numbers
					DELETED		
57	3.7-4	3.7.5.4	Reconciliation of Seismic Analyses of Nuclear Island Structures	TBD	PENDING 1/31/07	TBD	
59	18.7-1	18.7.1	Execution and Documentation of the Human Reliability Analysis/Human Factors Engineering Integration	APP-GW-GLR-011 (DCP/NRC1731)	4/6/06 ISSUED	2/28/07	
61	3.9	3.9	Integrated Head Package Design	APP-GW-GLN-014 (DCP/NRC TBD)	PENDING 11/30/06	TBD	Submittal Date revised to allow efficient use of Westinghouse, Nustart, and NRC resources. Added document number.
62	3D	3D	Methodology for Qualifying AP1000 Safety Related Electrical and Mechanical Equipment	APP-GW-GLN-006 (DCP/NRC1735)	5/22/06 ISSUED	TBD	
62	3D	3D	Methodology for Qualifying AP1000 Safety Related Electrical and Mechanical Equipment, Revision 1	APP-GW-GLN-006, Revision 1 (DCP/NRC TBD)	PENDING 9/8/06	TBD	Revised and re-issued to incorporate NRC comments from 30-Jun-06 telecon

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64	18.10-1	18.10.1	Training Program Development	N/A	DELETED	N/A	TR deleted in 26-May-06 letter; information to be addressed in other pre-application interactions or with COL application as defined in Chapter 18 White Paper
					DELETED		
65	9.1-4	9.1.6	Criticality Analysis for Spent Fuel Racks	APP-GW-GLR-029 (DCP/NRC1755)	6/30/06 ISSUED	TBD	
66	19.59.10-4	19.59.10.5	Develop and Implement Severe Accident Management Guidance	TBD	PENDING 12/15/06	TBD	
67	9.1-2	9.1.6	Criticality Analysis for New Fuel Rack	APP-GW-GLR-030 (DCP/NRC1739)	5/29/06 ISSUED	TBD	
68	19.59.10-5	19.59.10.5	Equipment Survivability	TBD	PENDING 12/15/06	TBD	See TR 6 for as-built portion
69	3.9-2	3.9.8.2	Design Specification and Reports (Piping)	N/A	DELETED DELETED	N/A	TR deleted in 26-May-06 letter; information addressed TR 6 (as-built piping portion of COL 3.9-2)
70	13.5-1	13.5.1	Plant Procedures	APP-GW-GLR-040 (DCP/NRC TBD)	PENDING 12/15/06	TBD	
71	14.4-2	14.4.2	Test Specifications and Procedures	APP-GW-GLR-037 (DCP/NRC TBD)	PENDING 12/15/06	TBD	Added document number; Corrected Subject

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71	14.4-3	14.4.3	Conduct of Test Program	APP-GW-GLR-038 (DCP/NRC TBD)	PENDING 12/15/06	TBD	
72	18.2-1	18.2.6	Execution of the NRC Approved Human Factors Engineering Program	APP-GW-GLR-012 (DCP/NRC1731)	4/6/06 ISSUED	10/31/06	
72	18.5-1	18.5.4	Task Analysis (FBTA)	APP-GW-GLR-012 (DCP/NRC1731)	4/6/06 ISSUED	TBD	
72	18.8-1	18.8.5	Execution and Documentation of the Human System Interface Design Implementation Plan	APP-GW-GLR-012 (DCP/NRC1731)	4/6/06 ISSUED	10/31/06	
73	11.2-4	11.2.5.4	Dilution and Control of Boric Acid Discharge	APP-GW-GLR-014 (DCP/NRC1728)	3/31/06 ISSUED	8/31/06	
N/A	N/A	3.8	AP1000 Seismic Analyses and Structural Design Reviews (White Paper)	LETTER (DCP/NRC1730)	4/5/06 ISSUED	N/A	
N/A	N/A	4	AP1000 COL Standard Approach for Reactor Design (White Paper)	LETTER (DCP/NRC1761)	7/7/06 ISSUED	N/A	White paper discussing the pre-licensing activities for addressing Chapter 4 COL items and design items; addition since 26-May-06 letter; Subject changed to match letter

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N/A	N/A	18	Main Control Room/Human Factors Engineering White Paper	TBD	PENDING	TBD	White Paper discussing pre-application activities for addressing Chapter 18 COL items and design ITAAC; addition since 26-May-06 letter; purpose of white paper is to establish initial NRC interaction on these design activities
TBD	18.5-1	18.5.4	Task Analysis (TBD)	TBD	PENDING	TBD	Initial submittal for this COL information item was included in TR 72; additional information to be addressed in other pre-application interactions or with COL applications as defined in Chapter 18 White Paper; post-COL activities per Chap 18 White Paper
TBD	18.8-1	18.8.5	Execution and Documentation of the Human System Interface Design Implementation Plan (TBD)	TBD	PENDING	TBD	Initial submittal for this COL information item was included in TR 72; additional information to be addressed in other pre-application interactions or with COL applications as defined in Chapter 18 White Paper; post-COL activities per Chap 18 White Paper

Notes:

1. Dates are currently scheduled dates for submittals indicated as "pending" and actual dates for those indicated as "issued"
2. NRC Technical Review Completion estimated dates based on information provided by NRC Staff; "TBD" dates to be provided two weeks after NRC receipt of document
3. "Submittal Date to NRC" corresponds to date when NRC will be notified that the report information is available for onsite review