

July 16, 2007

Mr. Peter S. Hastings
NuStart Energy Development, LLC
C/O Duke Energy
ECO5R/PO Box 1006
Charlotte, NC 28201-1006

SUBJECT: WESTINGHOUSE AP1000 TECHNICAL REPORTS

Dear Mr. Hastings:

By letters dated March 8, May 26, and August 14, 2006, and March 8, 2007, NuStart Energy provided a schedule and status of Westinghouse Electric Company technical reports submitted to the U.S. Nuclear Regulatory Commission (NRC) staff in support of pre-application activities related to the Combined License application for the Bellefonte site. Enclosure 1 contains a listing of the technical reports, which have been or will be submitted, along with scheduled dates for issuing requests for additional information (RAIs) and for the technical staff providing draft safety evaluation (SE) input relative to the technical report to the project manager. The schedules for the review of each submittal are or will be established consistent with the budgeted resources. After the RAI is issued by the technical staff, a telephone conversation will be set up to discuss the questions and then the NRC staff will issue an RAI letter to Westinghouse. In some instances, RAIs may not be issued for a particular technical report. The draft SE dates are based on you responding to the RAIs within 30 days.

If you have any questions please contact me at (301) 415-1439, or dhj@nrc.gov.

Sincerely,

/RA/

David H. Jaffe, Senior Project Manager
AP1000 Projects Branch 2
Division of New Reactor Licensing
Office of New Reactors

Project No.: 740

Enclosure:
Status of NRC Review of AP1000 Technical Reports

cc: See next page

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NRR-106

OFFICE	DNRL/NWE1:LA	DNRL/NWE1:PM	DNRL/NWE2:BC
NAME	KGoldstein	DJaffe	EMcKenna
DATE	07/05/07	07/13/07	07/16/07

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STATUS OF NRC REVIEW OF AP1000 TECHNICAL REPORTS

Tech Report/ TAC No.	COL Info Item/ DCD Section	Title	Submittal Date (Revision)	RAI Target Issuance Date	Draft Safety Evaluation Input Date	Comments
1 MD2785	1.1-1	Construction and Startup Schedule	8/07/06	No RAI	Closed 4/23/07	NRC Letter sent 4/23/07. TR Rejected. Action Closed.
3 MD2358	3.7.2	Extension of NI Structures Seismic Analysis to Soil Sites	6/14/06 (O) 7/28/06 8/15/07 (T)	12/05/06C 5/15/07C	09/30/07	7/28/06 - correction ltr. Audit - 12/12-12/15/06 RAI response received 1/18/07, 1/29/07, 2/26/07, 3/9/07, 3/16/07, 3/29/07, 4/5/07, 6/15/07, 7/5/07. Audit - 4/16-4/20/07. Revised Responses to 12/5/06 RAI dated 6/15/07. Response to 5/15/07 RAI 7/5/07. Meeting to be scheduled with Westinghouse. Target date for submission on revision 8/15/07.
5	3.3-1	Wind and Tornado Site Interface Criteria	6/14/07 (2)	TBD	TBD	

Tech Report/ TAC No.	COL Info Item/ DCD Section	Title	Submittal Date (Revision)	RAI Target Issuance Date	Draft Safety Evaluation Input Date	Comments
6 MD2174	3.6-1	Pipe Break Hazards Analysis (As-Built Report)	6/05/06 (0)	4/27/07C	TBD	Awaiting revision to TR based on 9/15/06 response. RAI response 5/8/07.
6	3.6-3	Leak-Before-Break Evaluation of as-Built Piping (As-Built Report)	6/15/06	8/29/06C	1/08/07C	Technical staff review complete.
6	3.7-3	Seismic Interaction Review (As-Built Report)	6/05/06	6/13/07C	TBD	Resolved
6	3.7-4	Reconciliation of Seismic Analyses of Nuclear Island Structures (As- Built Report)	6/05/06C	6/13/07	TBD	Draft RAI E-Mailed 6/13/07.
6	3.8-2	Passive Containment Cooling System Water Storage Tank Examination (As-Built Report)	6/05/06	6/13/07C	TBD	Resolved
6	3.8-3	As-Built Summary Report (As-Built Report)	6/15/06	6/13/07C	TBD	Resolved
6	3.8-4	In-Service Inspection of Containment Vessel (As- Built Report)	6/15/06	6/13/07C	TBD	Audit - 4/16-4/20/07 Draft RAI E-Mailed 6/13/07.
6	3.9-2	Design Specification and Reports (As-Built Report)	6/05/06	8/08/06C	TBD	RAIs response received 9/15/06. RAI Rev.1 4/13/07. RAI Rev. 2 6/14/07.

Tech Report/ TAC No.	COL Info Item/ DCD Section	Title	Submittal Date (Revision)	RAI Target Issuance Date	Draft Safety Evaluation Input Date	Comments
6	5.3-1	Reactor Vessel Pressure · Temperature Limit Curves (As-Built Report)	6/05/06	1/09/07C	9/30/07	RAI response received 2/8/07. Revised RAI 5/1/07. RAI response dated 6/21/07.
6	5.3-4	Reactor Vessel Materials Properties Verification (As-Built Report)	6/05/06	1/09/07C	9/30/07	RAI response received 2/8/07. Revised RAI 5/1/07. RAI response dated 6/21/07.
6	10.2-1	Turbine Maintenance and Inspection (As-Built Report)	6/05/06	NA	1/08/07C	Technical staff review complete
6	13.6-2	Vital Equipment Verification (As-Built Report)	6/05/06	1/09/07C	9/30/07	RAI response received 2/21/07
6	14.4-6	First-Plant-Only and Three-Plant-Only Tests (As-Built Report)	6/05/06	12/05/06C	2/09/07C	Technical staff review complete.
6	19.59.10-1	As-Built SSC HCLPF Comparison to Seismic Margin Evaluation (As- Built Report)	6/05/06	TBD	TBD	Audit - 4/16-4/20/07
6	19.59.10-2	Baseline PRA (As-Built Report)	6/05/06	No RAI	11/21/06C	Technical staff review complete

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6	19.59.10-3	Internal Fire and Internal Flood Analyses (As-Built Report)	6/05/06	No RAI	11/21/06C	Technical staff review complete
6	19.59.10-5	Equipment Survivability (As-Built Report)	6/05/06	No RAI	11/21/06C	Technical staff review complete
7 MD4119	3.6-1	Pipe Break Hazards Analysis	1/26/07 (0)	TBD	10/30/07	
8	3.6-2	Leak-Before-Break Evaluation of as- Designed Piping	6/05/06 (0) 7/19/06 (1)	8/29/06C	TBD	Audit 8/29-8/30/07. RAIs responses received 9/29/06. Need to complete piping analysis review.
9 MD1847	3.8-1	Containment Vessel Design Adjacent to Large Penetrations	5/22/06 (0) 8/15/07 (T)	5/18/07C	TBD	Telecon on 10/6/06 to discuss comments. Audit 12/12-12/15/06. Awaiting revision to TR based on December audit to incorporate steam and feed lines. Audit 4/16-4/20/07.

Tech Report/ TAC No.	COL Info Item/ DCD Section	Title	Submittal Date (Revision)	RAI Target Issuance Date	Draft Safety Evaluation Input Date	Comments
10 MD5169	3.9-1	Reactor Internal Vibration Response	3/29/07 prop & n-p	TBD	10/10/07	
11a MD3249	3.9-2	Design Specification and Reports (Core Makeup Tank)	10/06/06 (0)	No RAI	TBD	Audit on 12/6/06 Need seismic response spectra to complete
11b MD3250	3.9-2	Design Specification and Reports (Accumulator)	10/06/06	No RAI	TBD	Audit on 12/6/06 Need seismic response spectra to complete
11c MD4227	3.9-2	Design Specification and Reports (Reactor Vessel Internals)	2/01/07 (0)	TBD	TBD	
11d MD4900	3.9-2	Design Specification and Reports (Pressurizer)	3/09/07 (0)	TBD	TBD	Need to resolve hard rock/soft soil issue.
11e MD5432	3.9-2	Design Specification and Reports (Reactor Coolant Pump)	4/27/07 (0)	TBD	12/31/07	
11f MD5245	3.9-2	Design Specification and Reports (Passive core cooling system heat exchanger)	4/13/07	TBD	TBD	
11g MD4909	3.9-2	Design Specification and Reports (Incore instrumentation guide tube)	3/15/07 (0)	TBD	TBD	

Tech Report/ TAC No.	COL Info Item/ DCD Section	Title	Submittal Date (Revision)	RAI Target Issuance Date	Draft Safety Evaluation Input Date	Comments
11h MD5546	3.9-2	Design Specification and Reports (Reactor vessel)	5/09/07	TBD	12/31/07	Need to resolve spectra issue.
11i	3.9-2	Design Specification and Reports (Steam generator)	6/01/07	TBD	TBD	
11j MD4587	3.9-2	Design Specification and Reports (Control rod drive mechanism)	2/16/07 (0)	TBD	TBD	
12 MD2694	3.9-2	Design Specification and Reports (Void swelling)	7/31/06 prop & n-p	2/26/07C	TBD	RAI response 5/2/07
13 MD4424	3.9-2	Safety Class Piping Design Specs and Design Reports Summary	2/12/07 (0) 5/18/07 (1)	TBD	TBD	Need to complete piping analysis review. (DAC)
15 MD1428	3.9-6	Piping Benchmark Program	3/31/06	No RAI	8/02/06C	Technical staff review complete
16 MD2977	3.10-1	Experience-Based Qualification	9/08/06 (1)	12/08/06C 6/26/07	3/08/07	Mtg held on 10/3-5/06 Phone call on 1/22/07. Draft RAI to W on 6/26/07.
18 MD2550	4.2-1 4.3-1 4.4-1 4.4-2	Changes to Reference Reactor Design and Confirm Assumptions for Safety Analyses DNBR Limits	7/07/06 10/31/06 (0)	TBD	TBD	Meeting held on 9/12/06

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23 MD3058	5.3-3	Surveillance Capsule Lead Factor and Azimuthal Location Confirmation	9/22/06 (0)	No RAI	2/5/07C	Technical staff review complete
24 MD4425	5.3-4 5.3-5	Reactor Vessel Materials Properties Verification and Reactor Vessel Insulation	2/08/07	5/24/07C 6/21/07	TBD	RAI 5/24/07. Draft RAI to Westinghouse on 6/21/07 and 7/6/07.
26 MD5497	6.3-2	Verification of Containment Resident Particulate Debris Characteristics	5/07/07 (0) prop 6/21/07 (1)	9/14/07	3/07/08	
27 MD1429	6.4-3	Main Control Room Inleakage Test Frequency	3/31/06 (0) 2/16/07 (1)	No RAI	3/26/07C	Technical staff review complete
28 MD2126	7.1-1	Setpoint Calculations for Protective Functions	5/31/06 (0)	4/19/07C	9/30/07	Mtg held 10/3-5/06. Telecon 3/23/07. RAI response 6/8/07.
29 MD4439	3.9	Reactor Internals Neutron Pads	2/13/07 (0) 5/24/07 (2)	7/27/07	8/31/07	
30 MD3608	3.9	Control Rod Drive System	11/15/06 (0)	No RAI	9/15/07	SE in preparation
31 MD2695	4.5	Reactor Internals Materials	7/31/06	3/11/07C	TBD	RAI response 6/8/07.
32 MD1432	5.2	Zinc Addition	4/05/06 (0)	8/01/06C	1/18/07C 1/09/07C 9/28/06C	Technical staff review complete

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33 MD3191	5.2	Reactor Coolant Boundary Materials	9/29/06 (0) 5/24/07 (1)	4/23/07C	9/15/07	Telecon on 3/7/07 on TR 6 RAI questions. RAI response 6/7/07.
34 MD3648	5.4	Generic Reactor Coolant Pump	11/17/06 (0)	5/02/07C	9/19/07	RAI dtd 5/2/07. RAI response 6/7/07.
35 MD3727	5.4	Steam Generator Description Changes	11/29/06 (0)	4/19/07 C	TBD	RAI response dated 6/7/07. Request clarification to W on 6/18.
36 MD2109	5.4	Pressurizer Configuration	6/05/06 (0)	7/20/06C 8/21/06C 10/16/06C 1/29/07C	3/14/07C 4/09/07C 5/30/07C	Technical Staff review Complete.
37 MD1433	6.2	Hydrogen Igniter Locations	4/05/06 2/16/07 (1)	8/07/06C	10/02/06C	Technical staff review complete
38 MD1434	6.3	PRHR Hx Design	4/05/06 (0)	No RAI	9/29/06C	Technical staff review complete
39 MD1849	7.2	I&C Design Changes	5/22/06 (0)	1/09/07C	9/30/07	Mtg held on 10/3-5/06. RAI response 2/8/07. RAI response 6/4/07.

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42 MD1850	7.1-2	Resolution of Generic Open Items and Plant- Specific Action Items	5/22/06 (0)	3/26/07C	9/30/07	Mtg held on 10/3-5/06. RAI responses with TR 88 responses dated 5/11/07.
43 MD2496	7.2-1	FMEA and SHA for Protection and Safety Monitoring System (Summary Report)	6/30/06	3/11/07C	9/30/07	Mtg held on 10/3-5/06. RAI response incl. TR88 resp. dated 5/11/07(prop) & 5/30/07 (n-p).
44 MD2104	9.1-1	New Fuel Rack Design & Structural Analysis	5/29/06 (0)	4/06/07C	9/30/07	Audit 4/16/07 RAI response 4/13/07 and 5/3/07. RAI response dated 6/7/07 and 7/5/07.
45 MD2495	9.5-5	Operator Actions Minimizing Spurious ADS Actuation	6/30/06	3/30/07C 5/04/07C	9/30/07	Telecon on 10/27/06 to discuss RAIs. RAI response 6/7/07.
46 MD2105	9.5-7	Fire Resistance Test Data	5/29/06 (0)	No RAI	12/22/06C	Technical staff review complete
48 MD1430	11.2-3 11.3-2	Identification of Ion Exchange and Adsorbent Media and Identification of Adsorbent Media	3/31/06 (0)	No RAI	8/01/06C	Technical staff review complete
49 MD3830	13.6-1	Security Plans, Organization and Testing	3/09/07 (1)	8/20/07	10/15/07	SGL information

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52 MD1435	18.5-2	Main Control Room Staff R&R	4/06/06 (0) 6/15/07 (2)	6/07/07C	TBD	Mtg held on 11/7-9/06. Drafted RAI E-Mailed 6/7/07. Teleconference with Westinghouse is needed to disposition the RAI in light of TR52, Rev. 2.
54 MD2551	9.1-3	Spent Fuel Racks Design & Structural Analysis	7/07/06 (0)	3/29/07C	9/15/07	RAI response 4/9/07, 4/10/07 and 5/17/07(2). Final responses dated 6/8/07 and 6/14/07.
57 MD5168	3.7-4	Reconciliation of Seismic Analyses of Nuclear Island Structures	4/05/07 (0) 7/31/07T	5/25/07C	TBD	RAI response 7/5/07.
59 MD1436	18.7-1	Execution and Documentation of the Human Reliability Analysis/Human Factors Engineering Integration	4/06/06	11/22/06C	1/22/07C 9/30/07	Mtg held on 11/7-9/06. RAI responses 1/29/07, and 2/27/07. Final response 6/8/07 (RAI 10 and 12). RAI response dated 6/08/07. Final response due 7/6/07 (RAI 4, 6, &9).

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61 MD3607	3.9	Integrated Head Package Design	11/14/06 (0)	3/29/07C	5/23/07C	Technical staff review complete
62 MD1851	3.10 & Appendix 3D	Methodology for Qualifying AP1000 Safety Related Electrical and Mechanical Equipment	5/22/06 (0) 9/08/06 (1) 4/27/07 (2)	TBD	10/27/06	Telecon held on 6/30/06.
65 MD2492	9.1.6-4	Criticality Analysis for Spent Fuel Racks	6/30/06 (0)	No RAI	12/05/06C	Technical staff review complete
66 MD4004	19.59.10-4	Develop and Implement Severe Accident Management Guidance	1/12/07 (0)	7/31/07	9/28/07	
67 MD2103	9.1-2	Criticality Analysis for New Fuel Rack	5/29/06 (0)	No RAI	12/04/06C	Technical staff review complete
68	19.59.10-5	Equipment Survivability	6/11/07 (0)	TBD	TBD	
70 MD3457	13.5-1	Plant Procedures	11/01/06 (0)	TBD	TBD	Meeting on 4/11-4/12/07.
71A MD5547	14.4-2	Test Specifications and Procedures	9/22/06 (0) 5/11/07 (1)	2/26/07C	12/31/07	RAI response 5/4/07.
71B MD3057	14.4-3	Conduct of Test Program	9/22/06 5/24/07 (1)	2/26/07C	TBD	RAI response 5/4/07.

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72 MD2451	18.2-1 18.5-1 18.8-1	Execution of the NRC Approved Human Factors Engineering Program, Task Analysis (FBTA), and Execution and Documentation of the Human System Interface Design Implementation Plan	4/06/06 (0)	TBD	09/07/07	Mtg held on 11/7-9/06.
73 MD1431	11.2-4	Dilution and Control of Boric Acid Discharge	3/31/06 (0)	NA	8/01/06C	Technical staff review complete
74A MD3838	16.1-1	Technical Specification Preliminary Information	12/15/06 (0) 4/13/07 (1)	4/30/07C	11/15/07	RAI response due 8/8/07
74B MD4588	16.3-1	Procedure to Control Operability of Investment Protection Systems, Structures and Components	2/19/07 (0)	7/26/07	9/27/07	
74C MD4902	16.1-1	Technical Specifications for Design Changes	3/12/07 6/06/07 (1)	TBD	9/12/07	
79	8.2	Electrical System Design Changes	TBD	TBD	TBD	Target date for submission TBD
80	7	Mark-up of DCD Chapter 7	TBD	TBD	TBD	Target date for submission TBD
81 MD5650	18.5-1	Task Analysis	5/24/07 (1)	TBD	TBD	

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82 MD5731	18.8-1	Execution and Documentation of the Human System Interface Design Implementation Plan	6/06/07 prop	TBD	TBD	
84 MD5672	18.11-1	Verification and Validation of AP1000 Human Factors Engineering Program	5/25/07 prop & n-p	TBD	TBD	
85 MD3370	3.7-4	Nuclear Island Basemat and Foundation	10/19/06	TBD	8/31/07	
86 MD4423	10.2	Alternate Steam and Power Conversion Design	2/08/07 6/25/07(I)	5/16/07C	8/16/07	RAI to Westinghouse Response 7/12/07
88 MD3831	7	AP1000 Instrumentation & Control (I&C) Data Communication and Manual Control of Safety Systems and Components	12/13/06	3/26/07C	TBD	RAI response with TR 42 response 5/11/07
89 MD4441	7	Protection System Architecture	2/14/07	TBD	10/14/07	
90 MD4440	NA	Main Control Room/Human Factors Engineering Plan	2/14/07	9/30/07	1/30/08	
91 MD4899	NA	HSI Guidelines	3/20/07	9/15/07	12/15/07	

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92 MD4228	10.4	AP1000 Optimized Condenser Design	1/30/07	No RAI	4/12/07C	Technical staff review complete
93 MD4624	8.3	Corrections to the Penetration Classification and Tag Numbers in Table 2.2.1- 1 of the ITAAC	2/23/07	5/10/07C	9/23/07	RAI response due 7/15/07.
94 MD5501	13.6-1	AP1000 Safeguards Report	5/04/07	8/20/07	10/15/07	
95 MD4928	13.6-3	Standard Security Plan	3/09/07 (0) 5/23/07 (1)	TBD	TBD	SGI information
96 MD4929	13.6-1	AP1000 Response to ICMs	3/09/07 (0)	8/20/07	10/15/07	SGI information
97 MD5563	7	DAS Platform Technology & Remote Indication Change	5/14/07 (1)	TBD	TBD	
98 MD5231	11.2	AP1000 Compliance with 10CFR20.1406	4/10/07 (0)	8/24/07T	10/10/07	
100 MD4901	3.9.6	AP1000 Valve Inservice Testing Requirement Update	3/09/07 (0) 3/15/07 (0)	6/15/07	9/11/07	Draft RAI E-Mailed 6/15/07.
101 MD5548	19.59.10-2	AP1000 PRA Evaluation of External Events	5/11/07 (0)	7/23/07	10/31/07	2/15/07 meeting held Response sent to W by letter dated 6/14/07.

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102 MD5246	19.59.10	AP1000 PRA Update Report	4/13/07 (0)	6/26/07	10/22/07	2/15/07 meeting held letter response to W questions sent 6/14/07. Draft RAI to W on 6/26/07
103 MD5916	9	Fluid System Changes	7/5/07(0)	TBD	TBD	
104	7	Cyber Security	7/12/07(0)	TBD	TBD	
105 MD5786	3	Building and Structure Configuration, Layout and General Arrangement Design Updates	6/12/07 (0)	TBD	TBD	
106 MD5784	9	Mechanical System and Component Design Updates	6/12/07 (0)	TBD	TBD	
107 MD5839	N/A	TSC Related Changes	6/14/07 (1)	TBD	TBD	
108 MD5649	N/A	Site Interface Temperature Limits	5/24/07 (0)	TBD	TBD	Errors in submittal require resubmittal of TR
109 MD5572	N/A	Incorporation of ASME- NQA-1-1994	5/16/07 (0)	8/30/07	12/31/07	
110 MD5550	N/A	EQ Methods	5/11/07 (0)	8/15/07	12/31/07	

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111 MD5674	N/A	CCW and SW changes required by Increased Heat Load	5/25/07 (0)	TBD	8/25/07	
113 MD5551	N/A	Containment Vessel Shell	5/11/07 (0)	8/15/07	12/31/07	
114 MD5811	N/A	AP1000 Auxiliary Boiler Sizing and Design	6/14/07 (0)	TBD	TBD	
116 MD5673	N/A	Additional Liquid Radwaste Monitoring Tanks	5/25/07 (0)	TBD	TBD	
117 MD5648	17.5 to 17.5- 7	Incorporation of Maintenance Rule	5/24/07 (0)	TBD	TBD	
118 MD5675	N/A	CVCS PAMS Instrument Modifications	5/25/07 (0)	TBD	TBD	
119 MD5645	N/A	Chapter 4 Tier 2* Information	5/24/07 (0)	TBD	TBD	
120 MD5676	N/A	Cathodic Protection for Metal Tanks in Contact with the Ground	5/25/07 (0)	TBD	TBD	
121 MD5644	N/A	Spent Fuel Pool Water Level and Dose	5/24/07 (0)	TBD	TBD	
123 MD5732	N/A	CMT Narrow Range Level Instrumentation Change	6/06/07 (0)	TBD	TBD	

Tech Report/ TAC No.	COL Info Item/ DCD Section	Title	Submittal Date (Revision)	RAI Target Issuance Date	Draft Safety Evaluation Input Date	Comments
124 MD5783	N/A	Removal of PWS Source and WWS Retention Basins	6/12/07 (0)	TBD	TBD	
125 MD5647	N/A	Correction to ITAAC	5/24/07 (0)	7/25/07	11/25/07	
127 MD5677	N/A	PCS Tier 1 Diagram Correction	5/25/07 (0)	TBD	TBD	
128 MD5962	N/A	Reactor Internals Flow - Induced Vibration Assessment Program	7/5/07(0)	TBD	TBD	
129 MD5773	N/A	Changes to conform with Res. Guidance and Criteria.	6/08/07 (0)	TBD	TBD	
130 MD5733	N/A	Editorial Format Changes	6/06/07 (0)	TBD	TBD	

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