



Westinghouse Electric Company
Nuclear Power Plants
P.O. Box 355
Pittsburgh, Pennsylvania 15230-0355
USA

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

Direct tel: 412-374-6206
Direct fax: 412-374-5005
e-mail: sisk1rb@westinghouse.com

Your ref: Docket No. 52-006
Our ref: DCP/NRC2444

April 23, 2009

Subject: Schedule for Action Item Follow up to NRC Review Meeting on Seismic Issues

During the NRC review of seismic issues and supporting analyses held the week of April 13-17 Westinghouse agreed to several action items. These items were confirmed during the exit meeting at the end of the week of meetings. During a phone held on April 22 the schedule for completion of these action items was discussed and Westinghouse provided commitments for the submittal of documentation expected to complete these action items. The closure activities include submittal of revised responses to NRC requests for additional information. The schedule to which Westinghouse agreed is attached.

Questions or requests for additional information related to content and preparation of this report should be directed to Westinghouse. Please send copies of such questions or requests to the prospective applicants for combined licenses referencing the AP1000 Design Certification. A representative for each applicant is included on the cc: list of this letter.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Robert Sisk', written over a white background.

Robert Sisk, Manager
Licensing and Customer Interface
Regulatory Affairs and Standardization

/Enclosure

cc:	D. Jaffe	- U.S. NRC	1E
	E. McKenna	- U.S. NRC	1E
	B. Gleaves	- U.S. NRC	1E
	C. Proctor	- U.S. NRC	1E
	T. Spink	- TVA	1E
	P. Hastings	- Duke Power	1E
	R. Kitchen	- Progress Energy	1E
	A. Monroe	- SCANA	1E
	P. Jacobs	- Florida Power & Light	1E
	C. Pierce	- Southern Company	1E
	E. Schmiech	- Westinghouse	1E
	G. Zinke	- NuStart/Entergy	1E
	R. Grumbir	- NuStart	1E
	D. Lindgren	- Westinghouse	1E

NRC AUDIT OF AP1000 SEISMIC DESIGN. APRIL 13-17, 2009

4/23/2009 2:35 PM

Issue	Action	Resp	Date
HIGH PRIORITY ITEMS - TR115			
<p>ITEM 1: Implementation of Incoherency.</p> <p>RAI-SRP3.7.1-SEB1-10, -11</p> <p>Status: Audit Complete, NRC review continuing.</p>	<p>1) Westinghouse to provide to NRC the presentation (without animations) by Dan Ghiocels. In addition, Westinghouse committed to do additional work;</p>		<p>4/24 send to NRC</p>
	<p>2) Additional calculations using EPRI model & rectangular foundation AP1000 on hard rock foundation</p>		<p>6/5 Submittal</p>
	<p>3) More data, i.e., HRHF response spectra for 5 locations on the basemat (4 location at 4 corner and center) comparison of coherent at 5 nodes, 25 samples of incoherent and average of 25 incoherent response spectra,</p>		<p>6/5 Submittal</p>
	<p>4) Westinghouse will send Carl C. the latest (5 input data files) NI20 SASSI model,</p>		<p>4/24 send to NRC</p>
	<p>Provide ANSYS NI10 and NI20 models</p>		<p>TBD</p>
	<p>5) Westinghouse will provide date for completion of these items as docketed information on April 22nd conference call w/NRC.</p>		<p>Complete 4/22/09-</p>
<p>ITEM 2: NI10 & NI20 Models.</p> <p>Status: Unresolved.</p>	<p>Westinghouse should consider revising RAI-SRP3.7.1-SEB1-06.</p> <p>Westinghouse could document its position on adequacy of NI20 on HRHF analysis in a revised response to RAI-SRP3.7.1-SEB1-06.</p>		<p>6/5 Submittal</p>

Issue	Action	Resp	Date
<p>ITEM 3: Shell Modes of Steel Containment. RAI-SRP3.7.1-SEB1-04.</p> <p>Status: Audit Complete, NRC review continuing.</p>	See Item #1. (the incoherency analysis is under review)		Drafts written shown to NRC Awaiting Comments (NRC commitment 5/5/09)
<p>ITEM 4: Coherent vs. Incoherent Response.</p> <p>Status: Audit Complete, NRC review continuing.</p>	See Item #1.		6/5 Submittal
<p>ITEM 5: Regarding Screening & Selection of Key Locations reported in TR115, and the inconsistency of results between 3 models.</p> <p>Status: Unresolved.</p>	1) Westinghouse will revise a response to RAI-SRP3.7.1-SEB1-09(d)&(f) and RAI-SRP3.7.1-SEB1-08, 2)		6/5 Submittal
	2) Westinghouse will provide date for completion of revised RAI responses on April 22 nd conference call w/NRC		Complete 4/22/09
<p>ITEM 1: Limitations of 2D SASSI.</p> <p>Status: Audit Complete, NRC review continuing. NRC has seen the draft RAI.</p>	1) Westinghouse will submit new response to RAI-TR03-010, including DCD changes, and other related RAIs if necessary (-14, -15, -17, -19),		Drafts written shown to NRC Awaiting Comments (NRC commitment 5/5/09)
	2) Westinghouse will provide date for completion of revised RAI responses on April 22 nd conference call w/NRC.		Complete 4/22/09
<p>ITEM 2: Lift-off Analysis Removed from TR3</p> <p>Status: Audit Complete, NRC review continuing.</p> <p>NRC has not given feedback on the draft RAIs and will next week.</p>	Action: 1) Westinghouse has given draft RAIs and will revise RAI-TR03-024, -025, -026, -027, -028, -029, -030, -031,		Drafts written shown to NRC Awaiting Comments (NRC commitment 5/5/09)
	2) Westinghouse will provide date for completion of revised RAI responses on April 22 nd conference call w/NRC.		Complete 4/22/09

Issue	Action	Resp	Date
<p>ITEM 3: Justification of ESA for SCV. RAI-TR03-016.</p> <p>Status: Audit Complete,</p> <p>NRC review continuing. NRC has not given feedback on the draft RAIs and will next week.</p>	1) Westinghouse will submit Brandon Schoonmaker presentation as updated with missing mass @ GPA to Time-History.		Provide to NRC by 4/24/09
	2) Westinghouse submitted draft response on 4/15 and will submit docketed update (or revision) to RAI-TR03-016		Drafts written shown to NRC Awaiting Comments (NRC commitment 5/5/09)
	3) Westinghouse will provide date for completion of presentation & revised RAI response on April 22 nd conference call w/NRC.		Complete 4/22/09
<p>ITEM 1: Fatigue Evaluation Waver in TR9-04.</p> <p>Status: Audit complete.</p> <p>NRC review continuing. Audited Westinghouse calculation APP-MV50-GEC-001. NRC has not reviewed the revised calculation.</p>	<p>1) Westinghouse to revise discussion of Criterion 6 in Westinghouse calculation. This calculation will be available for NRC audit, when complete.</p> <p>Need to add Reference to calc in RAI and TR09</p>		Issue to NRC by 5/12/09
<p>ITEM 2: Inadvertent Actuation of Containment Coolers. Related to RAI-TR09-08.</p> <p>Status: Audit Complete,</p> <p>NRC review continuing.</p>	<p>1) NRC SEB1 contacted NRC/SPCV</p> <p>No action for Westinghouse</p>		-
<p>ITEM 3: Compare Equivalent Static A vs. Response Spectra A.</p> <p>Status: Audit Complete,</p> <p>NRC review continuing.</p>	<p>1) See Second Priority, Item 3 above.</p> <p>Draft revised RAI has been completed (See priority 2, item 3).</p>		Drafts written shown to NRC Awaiting Comments (NRC commitment 5/5/09)

Issue	Action	Resp	Date
<p>ITEM 1: Technical Reports Status</p> <p>Status: Audit Complete, NRC review continuing.</p>	<p>Action: None. This is more of a "motherhood" item to see that all information is appropriately dispositioned in Technical Reports</p>		-
<p>ITEM 2: Technical Issues related to Content of DCD Section 3.7</p> <p>Status: This item is explained in detail, and overtaken by, Fourth Priority, Items 3-5.</p>	None		
<p>ITEM 3: RAI-SRP3.7.1-SEB1-015, a&b) Annex Bldg SCI/SCII/NS, c) TB SC?</p> <p>Status: Audit Complete, NRC review continuing. We have made significant progress and W will submit revised RAI response.</p>	1) Westinghouse will clarify SC of all non-NI buildings,		7/2 Submittal
	2) Westinghouse committed to clarify the modeling non-NI buildings in RAI response and including DCD change,		7/2 Submittal
	3) Presentation by Lee Tunon-Sanjur (Thursday) on SSI,		Provide to NRC by 04/28/09
	4) Westinghouse will submit revised RAI-SRP3.7.1.-SEB1-015 (including a DCD modification) to address application of 2D vs. 3D SASSI, how 2D & 3D will be used for building responses, how analyses will be done for various soil sites using CSDRS Ground motion input, evaluation of building response at hard rock sites using backfill with HRHF ground motion,		7/2 Submittal
	5) Westinghouse will provide date for completion of revised RAI response on April 22 nd conference call w/NRC.		Complete 4/22/09

Issue	Action	Resp	Date
<p>ITEM 4: RAI-SRP3.7.1-SEB1-016, Identify Structural Damping used in HRHF seismic analysis.</p> <p>We have made very good progress and W committed to provide revised RAI response to clarify previous responses.</p> <p>Status: UNDER REVIEW. NRC and Westinghouse understand Finality Position.</p>	1) Re: -16(a)&(c) Provide Jim Parelo's Safety-Related EQ Testing/Damping presentation,		5/12/09 Submittal
	2) supplement response to RAI to discuss,		5/12/09 Submittal
	3) Westinghouse will provide a revised response (including an example) to RAI-SRP3.7.1-SEB1-16(d) on damping,		5/12/09 Submittal
	4) Westinghouse will provide revised response to RAI-SRP3.7.1-SEB1-16(b) based of LaPay's clarification of cable trays on Friday,		5/12/09 Submittal
	5) Westinghouse will provide date for completion of revised RAI response on April 22 nd conference call w/NRC.		Complete 4/22/09
<p>ITEM 5: RAI-SRP3.7.1-SEB1-017, Seismic Analysis of Nuclear Island.</p> <p>Status: NOT CHANGE - . NRC and Westinhhouse understand Finality Position.</p>	None		