

PMSTPCOL PEmails

From: Wunder, George
Sent: Thursday, July 01, 2010 12:48 PM
To: STPCOL
Subject: FW: Draft Agenda - 5/20/10 ABWR SC Meeting
Attachments: Agend ABWR Subcommittee-STPCOLA052010.doc; STPABWR SC Action Items.doc

From: Banerjee, Maitri
Sent: Thursday, April 29, 2010 9:27 AM
To: Wunder, George
Cc: Kallan, Paul; Tonacci, Mark
Subject: FW: Draft Agenda - 5/20/10 ABWR SC Meeting

was attached to the first e-mail. Plus the action item list. Please let me know which ones will be addressed at the meeting, and if staff has any comments. Please coordinate with STP.

Also, please let me know if NRO has any flex to the need for a letter on the DCD amendment (AIA) by July.

Thanks much.

Maitri

From: Banerjee, Maitri
Sent: Thursday, April 22, 2010 3:09 PM
To: Wunder, George
Cc: Eudy, Michael; Santos, Cayetano; Afshar-Tous, Mugeh; Tonacci, Mark
Subject: Draft Agenda - 5/20/10 ABWR SC Meeting

Hi George:

Here is the draft agenda for 5/20. Please review, consult with STP and make any changes you find necessary. I also attached the action item Table as it stands after the 3/28 meeting. Please let me know if any changes are necessary and the items that are due to be discussed at the 5/20 meeting.

Please make sure that all documents (reports) that support the staff's SER are provided with (or before) the SER. I found, and provided the Startup Admin Manual to the members because that document was considered as a necessary review item by the technical reviewer, was subject of RAIs and was revised as a result of RAIs. Given that we want to provide the members as much review time as possible (minimum of 30 days) before the meeting, I did not have time to review the document in any detail. As I mentioned to you and other BWR PMs before, I depend much on the staff to identify and provide these documents ahead of time.

Please respond at your earliest convenience. I will be out of town all of next week.

Thanks much.

Maitri

Hearing Identifier: SouthTexas34Public_EX
Email Number: 2317

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Subject: FW: Draft Agenda - 5/20/10 ABWR SC Meeting
Sent Date: 7/1/2010 12:47:45 PM
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From: Wunder, George

Created By: George.Wunder@nrc.gov

Recipients:
"STPCOL" <STP.COL@nrc.gov>
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Agend ABWR Subcommittee-STPCOLA052010.doc		43002
STPABWR SC Action Items.doc	114682	

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**Advisory Committee on Reactor Safeguards Subcommittee on ABWR
Meeting on STP COLA – Open/Closed
May 20, 2010, Rockville, MD
Proposed Agenda**

ABWR Subcommittee Chair: Said Abdel-Khalik

Cognizant Staff Engineer/DFO: Maitri Banerjee mxh@NRC.GOV (301) 415-6973

Topics	Presenters	Time
Opening Remarks	Said Abdel-Khalik, ACRS	8:30 am - 8:40 am
NRO/STPNOC Staff Introductions	Mark Tonacci, NRO Scott Head, STPNOC	8:40 am – 9:00 am
ABWR SC meetings on STP COLA- Follow up Items	Scott Head, STPNOC George Wunder, NRO	9:00 am – 9:30 am
STP COLA FSAR Chapter 7	Coley Chappell, STPNOC	9:30 am – 10:30 am
Break		10:30 am – 10:40 am
SER with Open Items Chapter 7	Michael Eudy, NRO NRO/DE Staff	10:40 am – 11:45 am
Lunch		11:45 am – 12:45 pm
Leftover Discussion on Chapter 7	Coley Chappell, STPNOC Michael Eudy, NRO NRO/DE Staff	12:45 pm – 1:45 pm
STP COLA FSAR Chapter 14	Coley Chappell, STPNOC	1:45 pm – 2:45 pm
Break		2:45 pm – 2:55 pm
SER with Open Items Chapter 14	Michael Eudy, NRO NRO/DE Staff	2:55 pm – 3:45 pm
Public comments, Subcommittee Discussion, Closing Remarks	Said Abdel-Khalik, ACRS	3:45 pm – 4:30 pm

Notes:

- During the meeting, use 301-415-7360 to contact anyone in the ACRS Office.
- Presentation time should not exceed 50 percent of the total time allocated for a given item. The remaining 50 percent of the time is reserved for discussion.
- Thirty five (35) hard copies of each presentation or handout should be provided to the Designated Federal Official (DFO) / ACRS Contact 30 minutes before the meeting.
- One (1) electronic copy of each presentation should be e-mailed to the DFO / ACRS Contact 1 day before the meeting. If an electronic copy cannot be provided within this timeframe, presenters should provide the DFO / ACRS Contact with a CD containing each presentation at least 30 minutes before the meeting.
- To protect proprietary information, parts of the meeting may be closed to the public.
- A telephone bridge line (888-324-xxxx, pass code yyyy) has been established to allow members of the public and stakeholders listen in the open portion of the meeting. Such participants may ask questions at a designated time at the end of the meeting only.

ACRS ABWR Subcommittee Action Items

No.	MTG/ date generated	ACTION ITEM	CONTEXT	AREA	LEAD(s)	COMMENTS / ACTION / DISPOSITION	Date Resolved
March 2, 2010 Subcommittee Meeting							
1	3/2/10	Dr. Armijo expressed interest in the fuel related topical reports and the effect of the fuel change (amendment to COL) on the analyses in Chapters 4 and 15. Communicate ACRS desire to review fuel amendment (first reload) application that replaces GE 7 fuel (DCD) to contemporary fuel (Armijo)	Chapter 4	SER	NRC/ACRS (Abdullahi/ Banerjee)	At the 5/20/10 meeting the staff will tell the Subcommittee which topical reports will be presented to them and when. The staff will also answer the question of whether or not the amendment will go before ACRS. Potential impact to other areas including Chapters 6 and 15 in addition to Chapter 4. <u>A list of fuel amendment related technical/topical reports has been provided. ACRS (Dr. Armijo lead) to determine which ones the Committee would like to review and the responsible Subcommittee(s). Proposal to be presented at the April P&P.</u>	
2	3/2/10	Future presentation of staff and STP to address diesel qualification to 60 degrees C, related occupancy issues and HVAC changes. (Abdel-Khalik)	Chapter 9	COLA/SER	STP	STP to provide additional discussion <u>on habitability</u> at future Subcommittee meeting on impact of higher temperature (departure T1 2.15-2) when Chapter 9 is presented to the Subcommittee. <u>The issue of diesel qualification was addressed at 3/18/10 meeting satisfactory to the members.</u>	
3	3/2/10	Part 21 reports issued on stability analysis post DCD need to be addressed (Abdel-Khalik)	Chapters 4 and 15	COLA/SER	STP/NRO	STP and staff to address at March 18, 2010 meeting. <u>Closed as follows:</u> <u>STPNOC will provide an updated Stability Option III analyses including resolution of the Part 21 issues before fuel load (COM 4.4-3)</u> <u>Staff will followup commitment through established processes.</u>	<u>3/18/10</u>

ACRS ABWR Subcommittee Action Items

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4	3/2/10	Part 21 reports issued post DCD - how staff identifies, captures and addresses Part 21 issues that affect the ABWR design? (Abdel-Khalik)	Chapters?	COLA/SER	NRO	Staff plans to address it at the March 18, 2010, meeting. <u>STP is preparing a list of all applicable part 21 items since original design certification and will develop a process to address them in the COLA space. Staff to followup and address at a future ACRS meeting.</u>	
5	3/2/10	Deletion of MSIV closure and scram on hi radiation	Chapters 7 and 19	DCD	-	BWROG Topical Report reviewed and approved by NRC. Closed	3/2/10
6	3/2/10	FW line break mitigation – This accident is not described in Chapter 15 (Abdel-Khalik).	Chapter 6	COLA/SER	STP/NRO	The applicant stated that this accident does not affect Chapter 15 doses and that the entirety of the accident and its effects will be discussed in the presentation on Chapter 6. Address during 5/20/10 meeting.	
7	3/2/10	FPGA – address in more detail (e.g., inter-channel communication, determinancy) (Brown)	Chapter 7	COLA/SER	STP/NRO	Staff to discuss at 5/20 meeting. NRO to provide documents to Subcommittee in advance of briefing on this topic as needed.	
8	3/2/10	Address GSI-191 flow blockage (not just for fuel) (Abdel- Khalik)	Chapter 6	COLA/SER	STP/NRO	Staff and STP to discuss this issue during presentation on strainers and downstream effects testing as part of Chapter 6 on May 20, 2010.	
9	3/2/10	Address how underground release is handled (e.g., H3) in STP design and operational programs. Address if underground piping carrying radioactive liquids run through tunnels, designed for zero leakage, or above/below the water table. (Ryan)	Chapter 11	COLA/SER	STP	To be discussed at a future meeting	

ACRS ABWR Subcommittee Action Items

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10	3/2/10	GALE code – impact of the very conservative approach used by the staff and need for uncertainty analysis and use of actual experience data. (Ryan)	Chapter 12	SER	NRO	Dr. Ryan asked if staff has any insights on how results from the new GALE code will compare to results from the old GALE code. What impact is this likely to have on the application? He also expressed concern regarding the effect on the applicant of making significant changes to RGs in the middle of a review? Staff to address this issue generically at a future meeting. <u>Staff discussed the issue at 3/18/10 SC meeting to Committee's satisfaction. The issue is closed.</u>	<u>3/18/10</u>
11	3/2/10	Disparity between staff and STP presentation related to all x/q values being bounded by DCD.	Chapter 15	SER	NRO	Staff acknowledged error in presentation slides. Issue closed.	3/2/10
12	3/2/10	Related to HFE, how specific DAC acceptance criteria be amenable to staff inspection (Bley)	Chapter 18	SER	ACRS	DAC issues will be closed after the issuance of the COL. This means that the Committee will not be able to track the closure of DAC-related technical issues before they are requested to write a letter on the staff's SER. ACRS to receive briefing on digital I&C DAC at 570 ACRS meeting on 3/5/10, and decide if further follow-up is needed.	
13	3/2/10	Subcommittee would like a better understanding of how adding dry/wetwell pressure indication on SPDS gives higher assurance of control room capability post accident when SPDS is non-safety related (Stetkar)	Chapter 18	SER	NRO	Staff to provide additional information to ACRS.	

ACRS ABWR Subcommittee Action Items

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14	3/2/10	EDG qualification to increased ambient temperature (Stetkar)	Chapters 8, 9	FSAR/SER	STP/NRO	STP to discuss at next meeting. This item is closed.	3/18/10
15	3/2/10	Subcommittee would like a better understanding of the basis for SER conclusion related to MCR and RSS and operator ability in switching from a digital MCR to analog RSS (Stetkar)	Chapter 18	SER	NRO	Staff to address this question in the context of the Chapters 7 and 18 discussions on RSS.	
16	3/2/10	May need more aggressive staff review of HFE. Dr. Bonaca indicated that he might have questions on Chapter 18 (human factors engineering) after he reflected on the presentation. (Bonaca)	Chapter 18	SER	ACRS/NRO	Staff to address: Dr. Bonaca referring to questions from Dr. Stetkar above – Treatment of SPDS, core cooling display parameters and their bases.	
17	3/2/10	Staff needs to formalize handling of DAC	Chapter 18	NRO Programs	ACRS/NRO	Future ACRS Briefings to address. Also see item 12.	
18	3/2/10	Related to SER open item 1-3 on aging management, it was noted that detailed technical review is conducted under license renewal process when it should be an issue to consider from the first day on. Dr. Stetkar noted that additional guidance in the area may be helpful.	Chapter 1	Aging management	ACRS/NRO	Staff plans to close this issue in the staff's final SER with no open items.	
19	3/2/10	Occupational doses received from ABWRs and how they compare to occupational doses at other reactors. Can we compare ABWR to other Japanese BWRs as well as to U.S. BWRs? (Ryan)	Chapter 12	ABWR occupational dose		Staff to address this issue at a future meeting. 3/18/10 At 3/18 SC meeting, NRO and STP provided occupational dose data for Japanese and US BWRs since 1993 and the average dose for the Kashiwazaki-Kariwa plants, two of which are ABWR units, from 1997 thru 2002.	
20	3/18/10	Number of times RCIC is expected to cycle on and off during an 8 hour SBO event (Stetkar)	Chapter 5	RCIC	STP	RCIC qualification and Operator response may be challenged due to repeated cycling	

ACRS ABWR Subcommittee Action Items

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21	3/18/10	Rx vessel EOL fluence value and error band (Abdel-Khalik/Armijo)	Chapter 5	Rx Vessel Material	STP	COLA uses DCD value, will be updated once PTLR is finalized/approved	3/18/10
22	3/18/10	Ensure all documents (engineering, design, procedures, PTS etc) at the plant use a consistent set of units (either British or Metric). (Abdel-Khalik)	All	All	STP	Too many number of problems and near misses happen when operators and technicians at the plant have to take action based on inconsistent units.	
23	3/18/10	Address how K6 and K7 RCS leakage TS limits compare with proposed STP numbers, and justify STP limits, if higher. Also address instrument sensitivity and how it compares with 1 gpm number. (Armijo)	Chapter 5	PTS	STP	Unidentified leakage limit was increased from 1 gpm DCD value to 5 gpm STP TS as STP is not using LBB.	
24	3/18/10	Confirm that East transmission lines are capable of supplying all 4 units' safety loads when other lines are lost. (Stetkar/Sieber)	Chapter 8	FSAR	STP	Concern was that given shared transmission right of way and towers, all other lines could be lost under a storm situation.	
25	3/18/10	State if there are single or double closing coils on switchyard breakers. (Stetkar)	Chapter 8	FSAR	STP	There may be additional questions if the answer is "single."	
26	3/18/10	Provide switchyard control system backup battery discharge time. (Stetkar/Sieber)	Chapter 8	FSAR	STP	Breakers may not close after LOOP clears if battery exhausted.	
27	3/18/10	Performance of switching logic under various electrical transients. (Stetkar)	Chapter 8	FSAR	STP	STP may want to address it beyond COL while detailed design is finalized.	

March 18, 2010 Subcommittee Meeting

ACRS ABWR Subcommittee Action Items

28	3/18/10	NRO to address how the SBO rule requirements are being ensured after operator action time is factored into the scenario with STP specification of "less than 10 minutes CT startup time." (Stetkar)	Chapter 8	SER	NRO	As STP chose not to do SBO coping analysis, they have to demonstrate that the CTs are capable of powering shutdown buses within 10 minutes of the onset of SBO (10 CFR 50.63 (c)(2)). The scenario involves needed operator action to shed/load buses before breaker can be closed.
29	3/18/10	Address qualification of submerged 345 KV cables. (Brown)	Chapter 8	FSAR	STP	High water table prompted question on qualified life.
30	3/18/10	Address when DRAP list will be effectively populated and staff review is completed. How does staff ensure the DRAP list and the process (COLA vs. ITAAC) related to it are acceptable? (Stetkar)	Chapter 17	FSAR/SER	STP/NRO	With evolving plant PRA and DRAP, members were concerned that ITAAC may not be an appropriate closer mechanism for DRAP list.
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