

C O V E R

S H E E T

FAX

To: Bill Huffman (NRC)  
cc: B. McIntyre (Informal NRC File), Larry Hochreiter (Fax), Bob Osterrieder,  
Mike Young, Andy Gagnon, Dan Garner, Bob Kemper, File 7.6  
Subject: WC/T  
Date: February 7, 1997  
Pages: Two, including this cover sheet.

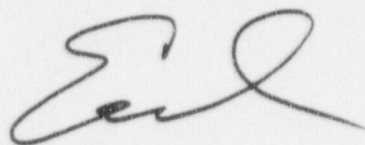
COMMENTS:

Bill,

Attached is proposed draft agenda for our NOTRUMP meeting on 3/13. Please give a copy to Ralph and let me know if he has any comments.

Also, when we talk Wednesday or Thursday, we would like to discuss with you and Lambrose the possibility of having a WC/T LTC meeting to discuss results of some additional analyses that we believe address a good portion of his concerns. We would like to have that meeting in the pm the day before we meet on NOTRUMP. The other possibility, if it works, is to have the NOTRUMP meeting on Friday, 3/14, with WC/T LTC on Thursday.

Let's discuss when we talk this week. Thanks.



From the desk of...

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February 24, 1997 1: NRC\NT\_2 297

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**DRAFT AGENDA  
for  
March 13 or 14, 1997  
NOTRUMP MEETING**

1. Introduction
2. SPES Results
3. OSU Results
4. Documentation Closure
  - a. Report
  - b. RAIs/Open Items/DSEI
5. ACRS Meeting
  - a. Executive Summary
  - b. Proposed Agenda
  - c. NRC Feedback on Approach
6. Wrap-up

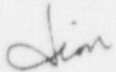
## FAX to DINO SCALETTI

February 28, 1997

CC: Sharon or Dino, please make copies for: Diane Jackson  
Ted Quay  
Don Lindgren  
H. Jambusaria  
M. Mahlab  
Ed Cummins  
Bob Vijuk  
Brian McIntyre

### OPEN ITEMS FOR SSAR SECTION 3.9 (less 3.9.6)

This is a background package for the remaining open items for SSAR section 3.9 (less 3.9.6). SSAR section 3.9 (less 3.9.6) is of interest because by our joint NRC/W schedule, the FSER for this section should be turned into Projects by the end of March. There are 11 Open Items with NRC Status of Action W. Westinghouse believes all of these items were addressed in or prior to the January 8, 1997 letter NSD-NRC-4933, some as long ago as February 29, 1996 (one year). Currently, our records show no additional outstanding Westinghouse actions required for section 3.9 (less 3.9.6). We request that NRC provide a definitive action for Westinghouse or provide direction to change the status of these items. We recommend "Action N". The 11 items are: 782, 783, 786, 793, 1792, 1793, 1797, 1802, 1803, 1807 and 3372. Thank you.



Jim Winters  
412-374-5290



## FAX to DINO SCALETTI

February 28, 1997

CC: Sharon or Dino, please make copies for: Ted Quay  
Bill Huffman  
Diane Jackson  
Tom Kenyon  
Joe Sebrosky

Cindy Haag  
Don Lindgren  
Robin Nydes  
Brian McIntyre  
Ed Cummins  
Bob Vijuk

This is a reminder list of the Open Items where we have recently provided background documentation showing the difference between "W Status" and "NRC Status". In all cases, we believe the next action is with NRC and await your definitization of a Westinghouse action or your direction to change the "NRC Status" to something other than "Action W". Note that we have received no information from NRC on items on this list for over a week.

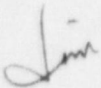
Open Item Number	Westinghouse Submittal	Request for Status Change
21(RAI 471.24)	2/14/97	2/14/97
142 (M3.11-9)	2/29/96	2/3/97
157 (M5.2.5-13)	1/9/97	2/12/97
164 (M5.2.5-20)	1/10/97	2/12/97
172 (M5.2.5-29)	1/14/97	2/14/97
173 (M5.2.5-30)	1/14/97	2/17/97
177 (M5.2.5-34)	12/20/96	2/18/97
182 (M5.4.11-5)	1/10/97	2/20/97
184 (M5.4.11-7)	1/13/97	2/20/97
405	7/8/96	2/11/97
681 (DSER 3.8.2.4-3)	2/11/97	2/17/97
706 (DSER 3.8.2.4-28)	2/11/97	2/17/97
710 (DSER 3.8.3.1-1)	1/16/97	2/18/97
716 (DSER 3.8.3.2-5)	1/16/97	2/18/97
717 (DSER 3.8.3.3-1)	1/16/97	2/18/97

Open Item Number	Westinghouse Submittal	Request for Status Change
718 (DSER 3.8.3.3-2)	1/16/97	2/18/97
719 (DSEP 3.8.3.3-3)	1/16/97	2/18/97
722 (DSER 3.8.3.4-3)	1/16/97	2/18/97
724 (DSER 3.8.3.4-5)	1/16/97	2/18/97
729 (DSER 3.8.3.4-10)	1/16/97	2/18/97
730 (DSER 3.8.3.4-11)	1/16/97	2/18/97
731 (DSER 3.8.3.4-12)	1/16/97	2/18/97
732 (DSER 3.8.3.4-13)	1/16/97	2/18/97
740 (DSER 3.8.4.1-3)	1/16/97	2/20/97
754 (DSER 3.8.4.4-6)	1/16/97	2/20/97
757 (DSER 3.8.4.5-1)	1/16/97	2/20/97
758 (DSER 3.8.4.5-2)	1/16/97	2/20/97
782 (DSER 3.9.2.3-1)	<b>6/30/95</b>	2/28/97
783 (DSER 3.9.2.3-2)	2/19/97	2/28/97
786 (DSER 3.9.3.1-1)	2/29/96	2/28/97
793 (DSER 3.9.3.3-2)	2/19/97	2/28/97
1210 (DSER 12.4.2-2)	4/30/96	2/6/97
1227	7/8/96	2/11/97
1228	7/8/96	2/11/97
1231	7/8/96	2/11/97
1232	7/8/96	2/11/97
1792 (DSER-CN 3.9.2.1-4)	10/23/96	2/28/97
1793 (DSER-CN 3.9.2.3-1)	10/23/96	2/28/97
1797 (DSER-CN 3.9.2.4-4)	10/14/96	2/28/97
1802 (DSER-CN 3.9.3.3-3)	9/5/96	2/28/97
1803 (DSER-CN 3.9.3.3-4)	9/5/96	2/28/97
1807 (DSER-CN 3.9.7-1)	6/19/96	2/28/97
1888 (DSER-COL 3.8.2.4-1)	2/11/97	2/17/97
2034	7/8/96	2/11/97

Open Item Number	Westinghouse Submittal	Request for Status Change
2043	1/10/97	2/14/97
2044	1/30/97	2/14/97
2347	1/16/97	2/18/97
2348	1/16/97	2/18/97
2349	1/16/97	2/18/97
3057	5/30/96	2/18/97
3247 (RAI 230.98)	4/30/96	2/18/97
3372 (RAI 210.213)	1/8/97	2/28/97
4617	2/14/97	2/14/97

Note that the status was changed for Items 4, 21, 30, 37, 123, 134, 135, 137, 138, 139, 140, 141, 144, 158, 586, 969, 970, 971, 1300, and 1301 so they have been removed from the table.

Thanks for your help.



Jim Winters



## FAX to DINO SCALETTI

February 28, 1997

CC: Sharon or Dino, please make copies for: Diane Jackson  
Ted Quay

Don Lindgren  
Moshe Mahlab  
Preston Vock  
Terry Schulz  
Ed Cummins  
Bob Vijuk  
Brian McIntyre

### OPEN ITEMS FOR SSAR SECTION 3.9.6

This is a background package for the remaining open items for SSAR section 3.9.6. SSAR section 3.9.6 is of interest because by our joint NRC/W schedule, the FSER for this section should be turned into Projects by the end of March. There are 27 Open Items with NRC Status of Action W. Six (6) of these items (798, 800, 810, 811, 1749 and 5000) still require some Westinghouse action. Westinghouse believes the other twenty one (21) items have been addressed. Currently, our records show no additional outstanding Westinghouse action required for section 3.9.6, except the 6 items identified above. We request that NRC provide a definitive action for Westinghouse or provide direction to change the status of these items. We recommend "Action N". Thank you.



Jim Winters  
412-374-5290

1 of 8

# AP600 Open Item Tracking System Database: Executive Summary

Date: 2/28/97

Selection: [nrc st code]='Action W' And [DSER Section] like '3.9.6\*' Sorted by Item #

Item No	Branch	DSER Section/ Question	Type	Title/Description Detail Status	Resp Engineer	(W) Status	NRC Status	Letter No. /	Date
798	NRR/EMEB	3.9.6.2.1	DSER-OI	Westinghouse should specifically address the method used to assess the loads, size the actuators, and set the torque and limit switches. (Westinghouse should provide specific requirements for design and qualification testing, pre-operational testing, and IST of safety-related MOVs to demonstrate their design basis capability before installation, prior to startup, and throughout plant life.)  Closed - A description is included in SSAR 5.4.8 on valve qualification testing. Action W - NRC letter dated October 11, 1996 more information is needed on valve qualification in 5.4.8 NRC Status Jan. 97 - Westinghouse must revise SSAR Section 5.4.8.1 to include those provisions of valve design and qualification that are circles and identified in Attachment 3 of telephone conference summary dated October 11, 1996  Action W - These issues are related to valve qualification testing. Westinghouse has not provided SSAR revisions to resolve these issues. In its letter dated December 17, 1996, Westinghouse did not address these issues but indicated that it would be addressed in a separate response. To resolve these issues, Westinghouse must revise the SSAR Section 5.4.8.1 to include those provisions of valve design and qualification that are circled and identified in Attachment 3 of telephone conference summary dated October 11, 1996. As of January 31, 1997, Westinghouse is continuing work on its response.	Mahlab	Action W	Action W		
800	NRR/EMEB	3.9.6.2.3	DSER-OI	Westinghouse should provide specific requirements for design and qualification testing, pre-operational testing, and IST for these safety-related POVs (other than MOVs) to demonstrate their design basis capability before installation, and startup, as well as throughout plant life.  Closed - IST requirements are in 3.9.6, qualification requirements are in 5.4.8 Action W - NRC letter dated October 11, 1996 More information required on valve qualification. NRC Status Jan. 97 - Westinghouse must revise SSAR Section 5.4.8.1 to include those provisions of valve design and qualification that are circles and identified in Attachment 3 of telephone conference summary dated October 11, 1996  Action W - These issues are related to valve qualification testing. Westinghouse has not provided SSAR revisions to resolve these issues. In its letter dated December 17, 1996, Westinghouse did not address these issues but indicated that it would be addressed in a separate response. To resolve these issues, Westinghouse must revise the SSAR Section 5.4.8.1 to include those provisions of valve design and qualification that are circled and identified in Attachment 3 of telephone conference summary dated October 11, 1996. As of January 31, 1997, Westinghouse is continuing work on its response.	Mahlab	Action W	Action W		
801	NRR/EMEB	3.9.6.2.4	DSER-OI	Westinghouse should revise the applicable SSAR sections and the IST program to comply with the staff positions in Section 3.9.6.2 of this report on the testing requirements for check valves.  Action W - clarify description of check valve testing method was included in Subsection 3.9.6 of the SSAR. Delete reference to alternate means of remote indication inspection in SSAR Section 3.9.6.2.2. Closed - The description of check valve testing method included in Subsection 3.9.6.2.2 of the SSAR has been revised to be in conformance with the staff position. The check valve exercise test for check valves with safety-related missions to transfer open and/or to transfer closed shows that the valve opens in response to flow and closes when the flow is stopped. Reference to alternate means of remote indication inspection in SSAR Section 3.9.6.2.2 has been defined. Action W - NRC letter dated October 11, 1996 SSAR needs to be clarified. Confirm N - Westinghouse response and SSAR markup provided by NSD-NRC-96-4917, 12/17/96. SSAR revisions included in Revision 10.  Action W - SSAR changes are needed in the check valve pre-op testing section on page 5.4-52 to indicate that check valves are tested in both directions. SSAR Subsections 5.4.8.1.1.2, 5.4.8.1.2.2, and 5.4.8.1.3.2 incorrectly identify the ISTP as Table 3.9-17. It should be Table 3.9-16. Westinghouse had added SSAR Subsection 3.9.6.2.3 to address valve disassembly and inspection. The disassembly and inspection program must also be addressed in Section 3.9.8, as the COL will have to develop this program. Note that there are two SSAR Subsections 5.4.8.1.1.2, but no Subsection 5.4.8.1.1.1. Changes to the second paragraph in SSAR Subsection 5.4.8.1.1.2 (Design and Qualification) is necessary, as this section states that design provisions for non-intrusive determination of disk position and potential valve degradation will only be provided for selected valves. Per SECY 94-084, the SSAR must be revised to state that, to the extent practical, each valve's obturator movement should be capable of observation by direct indication or non-intrusive techniques. As of January 31, 1997, Westinghouse is continuing work on its response. Closed - Response provided in NSD-NRC-97-4989 of 2/19/97.	Schulz/Mahlab	Confirm-N	Action W	NSD-NRC-96-4791	



# AP600 Open Item Tracking System Database: Executive Summary

Date: 2/28/97

Selection: [nrc st code]='Action W' And [DSER Section] like '3.9.6\*' Sorted by Item #

Item No	Branch	DSER Section/ Question	Type	Title/Description Detail Status	Resp Engineer	(W) Status	NRC Status	Letter No. /	Date
802	NRR/EMEB	3.9.6.2.5	DSER-OI	Westinghouse should revise the applicable SSAR section to comply with the staff's position as stated in SECY-90-016. Closed - A COL item on nonintrusive valve testing was included in the SSAR (3.9.8.3) Action W - Add information and COL item on periodic valve disassembly/inspection program. Closed - A Combined License applicant information item on nonintrusive valve testing was included in subsection 3.9.8. The test program does not rely on periodic valve disassembly or inspection to detect degradation. Action W - NRC letter dated October 11, 1996 Add information in the SSAR on the requirements for valve disassembly and inspection. Confirm N - Westinghouse response and SSAR markup provided by NSD-NRC-96-4917, 12/17/96. SSAR revisions included in Revision 10.	Schulz	Closed	Action W	NSD-NRC-96-4791	
805	NRR/EMEB	3.9.6.2.8	DSER-OI	Westinghouse should provide in the SSAR a list of all pressure isolation valves if the Technical Specifications do not require a list. Resolved - Chapter 16 of the SSAR (Tech Specs) will be revised to reflect the revised inservice testing plan. Action W - Revise Tech Specs to address use of inservice test program in lieu of Tech Spec leak testing. Closed - With issuance of the Tech Specs in SSAR Rev. 9. The list of pressure isolation valves in technical specifications are typically a subset of RCS pressure boundary that have some risk significance for intersystem LOCA. Because of the design of the normal residual heat removal system in the AP600, intersystem LOCA through leaking valves is not a risk significant issue. Sufficient integrity of RCS Pressure boundary valves is demonstrated by the IST program. A specific pressure isolation test is not required as part of the inservice test plan. Therefore, a list of the pressure isolation valves is not needed and has been removed from the AP600 Technical Specifications in Rev. 9 of the SSAR. Action W - NRC letter dated October 11, 1996 Fix Table 3.9-16 for valves RNS-V001A&B and V002 A&B Confirm N - Westinghouse response and SSAR markup provided by NSD-NRC-96-4917, 12/17/96. SSAR revisions included in Revision 10. Action W - Valves RNS-V002A/B are CIV's and are Type C tested per SSAR Table 6.2.3-1. These valves should be leak tested in the ISTP, Table 3.9-16. In the January 31, 1997, telephone conference, Westinghouse will revise SSAR Table 6.2.3-1. Closed - Response provided in NSD-NRC-97-4989 of 2/19/97.	Schulz	Closed	Action W	NSD-NRC-96-4791	
807	NRR/EMEB	3.9.6.3-1	DSER-OI	Westinghouse should provide the basis for deferring valve testing to cold shutdowns or refueling outages. Closed - SSAR Revision 4 added SSA & Table 3.6-16 to provide justification for deferral to shutdown for reasons of impracticability Action W - Address NRC comments on notes to Table 3.9-16 Closed - SSAR Table 3.6-16 provides justification for deferral to shutdown for reasons of impracticability Action W - See NRC letter dated October 11, 1996 for comments on notes for justification. Confirm N - Westinghouse response and SSAR markup provided by NSD-NRC-96-4917, 12/17/96. SSAR revisions included in Revision 10. Action W - Per NRC comments on the testing deferral, revise Note 4, Note 9, Note 11, and Note 21 in SSAR Table 3.9-16. In the January 31, 1997, telephone conference, Westinghouse stated they will provide additional justification on the use of solenoid operated valves for the head vent (Note 4); provide additional information on "sufficiently long" cold shutdown times (Note 9); delete RNS-PL-V046 from Note 21 and the table (Note 21); provide additional information on the testing capabilities of VES-PL-V0008 A and B (Note 21). The staff will respond to the Westinghouse December 17, 1996, letter regarding Note 11. Closed - Response provided in NSD-NRC-97-4989 of 2/19/97.	Schulz	Closed	Action W	NSD-NRC-96-4791	

# AP600 Open Item Tracking System Database: Executive Summary

Date: 2/28/97

Selection: [nrc st code]='Action W' And [DSER Section] like '3.9.6\*' Sorted by Item #

Item No.	Branch	DSER Section/ Question	Type	Title/Description Detail Status	Resp Engineer	(W) Status	NRC Status	Letter No. /	Date
809	NRR/EMEB	3.9.6.4-2	DSER-OI	Specific positions on the IST requirements for the identified components will be determined as a part of the staff's review of Westinghouse's implementation of the RTNSS process.  Closed - SSAR Revision 4 (3.9.6.1) added the commitment that for pumps with RTNSS important missions there is the ability to measure flow rate, differential pressure, and pump vibration. Closed - Subsection 3.9.6.1 includes the commitment that for pumps with RTNSS important missions there is the ability to measure flow rate, differential pressure, and pump vibration. Subsection 3.9.6.2 includes the commitment that for valves with RTNSS, important missions there is the ability to confirm their availability during operation operation. Action W - NRC letter dated October 11, 1996 Revise words on RTNSS valves. Confirm N - Westinghouse response and SSAR markup provided by NSD-NRC-96-4917, 12/17/96. SSAR revisions included in Revision 10.  Action W - Delete the first sentence of the second paragraph in SSAR Subsection 3.9.6.2, and move the second sentence to the end of the paragraph. Westinghouse will revise the SSAR. Closed - Response provided in NSD-NRC-97-4989 of 2/19/97.	Schulz/RTNSS	Closed	Action W	NSD-NRC-96-4791	
810	NRR/EMEB	3.9.6.5-1	DSER-OI	When available, the staff will review the qualification test or analysis program related to the safety-related check valves. (RAI 952.99 is related)  Closed - A description is in SSAR 5.4.8 on valve qualification testing. Action W - NRC letter of 12/9/96. NRC Status Jan. 97 - Westinghouse must revise SSAR Section 5.4.8.1 to include those provisions of valve design and qualification that are circles and identified in Attachment 3 of telephone conference summary dated October 11, 1996.  Action W - These issues are related to valve qualification testing. Westinghouse has not provided SSAR revisions to resolve these issues. In its letter dated December 17, 1996, Westinghouse did not address these issues but indicated that it would be addressed in a separate response. To resolve these issues, Westinghouse must revise the SSAR Section 5.4.8.1 to include those provisions of valve design and qualification that are circled and identified in Attachment 3 of telephone conference summary dated October 11, 1996. As of January 31, 1997, Westinghouse is continuing work on its response.	Mahlab	Action W	Action W		
811	NRR/EMEB	3.9.6.5-2	DSER-OI	Westinghouse should acceptably address issues pertaining to valve qualification testing. (ADS valve qualification)  Closed - A description is included in SSAR 5.4.8 on valve qualification testing. Action W - NRC letter of 12/9/96. NRC Status Jan. 97 - Westinghouse must revise SSAR Section 5.4.8.1 to include those provisions of valve design and qualification that are circles and identified in Attachment 3 of telephone conference summary dated October 11, 1996.  Action W - These issues are related to valve qualification testing. Westinghouse has not provided SSAR revisions to resolve these issues. In its letter dated December 17, 1996, Westinghouse did not address these issues but indicated that it would be addressed in a separate response. To resolve these issues, Westinghouse must revise the SSAR Section 5.4.8.1 to include those provisions of valve design and qualification that are circled and identified in Attachment 3 of telephone conference summary dated October 11, 1996. As of January 31, 1997, Westinghouse is continuing work on its response.	Mahlab	Action W	Action W		
1716	NRR/EMEB	3.9.6	MTG-OI	MEETING FOLLOW ON QUESTION 210.156 In the response to Q210.26, Westinghouse states that the IST program submitted in October 1993, will identify the areas and reasons where relief is appropriate. However, Section 3.9.6.2 of the IST program submitted in June 1994, states that relief from the requirements for testing, if required, and the alternative to the tests are justified and documented as part of the test program development and does not include any relief requests. Westinghouse should confirm that relief from the requirements of the 1989 Edition of the Code is not required.  Closed - Relief is requested in the SSAR subsection 3.9.6.3.1 to reduce the testing frequency to every six months for the ADS valves. The request indicates that the AP600 PRA, using the six month test frequency, meets its safety goals and that the results are not overly dependent on the ADS stage 1/2/3 valves. Action W - NRC letter dated October 11, provide additional justification for relief per criteria of 10 CFR 50.55a (a)(3)(ii). Confirm N - Westinghouse response provided by NSD-NRC-96-4917, 12/17/96	Schulz	Closed	Action W	NSD-NRC-96-4791	

## AP600 Open Item Tracking System Database: Executive Summary

Date: 2/28/97

Selection: [nrc st code]='Action W' And [DSER Section] like '3.9.6\*' Sorted by Item #

Item No	Branch	DSER Section/ Question	Type	Title/Description Detail Status	Resp Engineer	(W) Status	NRC Status	Letter No. /	Date
1727	NRR/EMEB	3.9.6	MTG-OI	MEETING FOLLOW ON QUESTION 210.167 There are a number of safety-related pneumatically operated valves identified in Table 9.3.1-1 that are not included in the IST program (e.g., CVS-PL-V030A and B, PXS-PL-V003A, V130A and B, 230A and B, 232A and B, 306, RCS-PL-V110A and B, V241, SGS-PL-V086A and B). Further, valves PXS-PL-V003A and B could not be located on the piping and instrumentation diagram (P&ID). Additionally, the containment air filtration system valves are duplicated in Table 9.3.1-1. Westinghouse should revise the IST program, P&IDs, and Table 9.3.1-1, as applicable.  Resolved - Revise table to note that the valve operator is no active. Correct CAS isolation valve to CAS-PL-V014 Closed - The valves in Table 9.3.1-1 are included in Table 3.9-16. Both tables have been revised to reflect design changes. Action W - NRC letter dated October 11, 1996 Review tables for consistency. Confirm N - Westinghouse response and SSAR markup provided by NSD-NRC-96-4917, 12/17/96. SSAR revisions included in Revision 10.	Schulz	Closed	Action W	NSD-NRC-96-4791	
1730	NRR/EMEB	3.9.6	MTG-OI	MEETING FOLLOW ON QUESTION 210.170 Valves PCS-PL-V014A and B are shown as stop check valves on P&ID PCS M6.01, Revision 6. They are identified in the IST program as diaphragm/hand valves. The valve type and the associated testing should be revised. As check valves, Westinghouse should review whether they have a safety-related function in the closed, as well as open direction, and revise the IST program, as required.  Closed - Valve PCS-PL-V014A has been changed to a manual valve. The valve body type has been removed from the table. PCS-PL-V014B is excluded from testing program because it does not have a safety-related function. Action W - NRC letter dated October 11, 1996 Review function and classification of valves. Confirm N - Westinghouse response and SSAR markup provided by NSD-NRC-96-4917, 12/17/96 Action W - Provide SSAR markup for Table 3.9-16  Action W - Valve PCS-V014A is a normally closed stop check valve (P&ID Fig. 6.2.2.1 of the SSAR, Rev 6 and Rev 9) with a safety function to open. However, no check exercise is specified and the valve is still identified as a Category B valve in Revision 10. Westinghouse will revise the SSAR. Closed - Response provided in NSD-NRC-97-4989 of 2/19/97.	SSARREV/McDermott	Closed	Action W	NSD-NRC-96-4791	
1731	NRR/EMEB	3.9.6	MTG-OI	MEETING FOLLOW ON QUESTION 210.171 In the IST program, there is no exercise test required for valves PSS-PL-V008 and 9, although their safety-related function includes transferring closed. Westinghouse should revise the IST program to include this test.  Closed - Valve PSS-PL-V008 has an exercise test identified. Valve PSS-PL-V009 does not have a safety-related function and is not included in the IST program. Action W - NRC letter dated October 11, 1996 Review safety function of head vent valves. Action N - Westinghouse response provided by NSD-NRC-96-4917, 12/17/96  Action W - Westinghouse has stated that valves RCS-PL-150VA-D have an active function to move to the open position. However, SSAR Fig. 5.1-5 identifies these valves as failed closed. The IST Table should be revised such that these valves are subject to a fail-safe test, or the P&ID should be revised. Westinghouse will include the testing in the SSAR. Closed - Response provided in NSD-NRC-97-4989 of 2/19/97.	Schulz	Closed	Action W	NSD-NRC-96-4791	
1736	NRR/EMEB	3.9.6	MTG-OI	MEETING FOLLOW ON QUESTION 210.176 Solenoid valves PXS-PL-V021A and B, V230, and V232 provide isolation to the non-safety-related piping and are fail closed valves. Additionally, check valves PXS-PL-V231A and B provide core makeup tank isolation and are considered critical valves (RAI 210.28). However, these valves are not included in the IST program. Westinghouse should revise the IST program.  Closed - Valves PXS-PL-V021A and B supply nitrogen to the accumulators; valves PXS-PL-V230A and B and PXS-PL-V232A and B supply make up water to the core makeup and accumulators. These valves are normally closed and their safety-related functions is to remain closed. These valves are only opened for maintenance type functions, i.e., to provide tank makeup in case of leakage. Action W - NRC letter of 12/9/96.	IST/Schulz	Closed	Action W	NSD-NRC-96-4791	



# AP600 Open Item Tracking System Database: Executive Summary

Date: 2/28/97

Selection: [nrc st code]='Action W' And [DSER Section] like '3.9.6\*' Sorted by Item #

Item No.	Branch	DSER Section/ Question	Type	Title/Description Detail Status	Resp Engineer	(W) Status	NRC Status	Letter No. /	Date
1740	NRR/EMEB	3.9.6	MTG-OI	MEETING FOLLOW ON QUESTION 210.180V alves PXS-PL-V016A and B, 17A and B, 28A and B, 29A and B, 122A and B, 123A and B, 124A and B, and 125A and B are identified in the technical specifications (TS), Revision 1, as pressure isolation valves. However, they are not included in the IST program as Category A valves, nor are they leak tested. Westinghouse should ensure that the IST program and TS are reconciled.  Action W - Address list of valves in Table 3.4.8-1 of Tech Specs and check category. Closed - With issuance of the Tech Specs in SSAR Rev. 9. The list of pressure isolation valves has been removed from the Technical Specifications. Refer to response to Item 3.9.6.2-8 for additional information. Action N - NRC letter dated October 11, 1996 See OHTS #805 (Resolve ISLOCA requirements). Action W - NRC letter of 12/9/96.	TECHSPEC/Corletti	Closed	Action W	NSD-NRC-96-4791	
1742	NRR/EMEB	3.9.6	MTG-OI	MEETING FOLLOW ON QUESTION 210.182 Westinghouse has indicated that squib valves PXS-PL-V301A and B will be exercised and have their position indication verified every 10 years, and have their charge test fired at refuelings. CM Part 10, 14.4.1(c) requires at least 20 percent of charges be fired and replaced at least once every 2 years. The Code, 14.4.1, also requires that position indication verification be performed at least once every 2 years. Additionally, Note 5 of Table 3.9.6-1 of the SSAR states that the automatic depressurization system (ADS) valve test frequency will be determined based on a PSA. A relief request in accordance with the regulations, 10 CFR 50.55a, is required in order to use a test frequency based on risk. Westinghouse should comply with the Code and/or provide a relief request(s).  Closed - SSAR section 3.9.6.2.2 revised to change firing and replacing requirements for squib valve charges to a frequency of 20 percent every two years. Action W - NRC letter dated October 11, 1996 Review and include Code requirements on service life. Confirm N - Westinghouse response and SSAR markup provided by NSD-NRC-96-4917, 12/17/96. SSAR revisions included in Revision 10.	Schulz	Closed	Action W	NTD-NRC-96-4791	
1745	NRR/EMEB	3.9.6	MTG-OI	MEETING FOLLOW ON QUESTION 210.185 Valves RNS-PL-V022, 23, and SFS-PL-V-34, 35, 37, 38 are active valves that must transfer closed. However, the IST program does not require any exercise test. Westinghouse should revise the IST program accordingly.  Details of in-service testing of valves was provided in the response to RAI 210.24R1. SSAR, Table 3.9.6-1, Rev. 3 includes quarterly full stroke testing of motor operated valves V022 and V023 and quarterly full stroke testing of motor operated valves V034, V035 and V038. It also includes forward flow testing of check valve V037 on a refueling outage frequency. August 22, 1996 - SSAR, Table 3.9.6-16, includes quarterly full stroke testing of motor operated valve RNS-PL-V022 and V023 and quarterly full stroke testing of motor operated valves SFS-PL-V034, V035, and V038. Action W - Address forward flow testing frequency of V037. Valve SFS-PL-V037 should have a requirement for quarterly check valve exercise testing. Table 3.9.6-16 will be updated (NRC has been provided with a draft mark-up) to reflect this check valve test frequency. Action W - NRC letter dated October 11, 1996 Review function of SFS-PL-V037 and CVS-PL-V100 and include as needed in ISTP. Confirm N - Westinghouse response and SSAR markup provided by NSD-NRC-96-4917, 12/17/96 Changes were included in SSAR Revision 10.	Schulz	Confirm-N	Action W	NSD-NRC-96-4791	
1747	NRR/EMEB	3.9.6	MTG-OI	MEETING FOLLOW ON QUESTION 210.187 The IST program identifies two solenoid operated valves as the RCS head vent (i.e., RCS-PL-V152 and 153). However, P&ID RCS-M6-001, Revision 8, shows four head vent valves (i.e., V150 A through D). There is no fail-safe test specified for these fail closed valves. Additionally, the IST program identifies the safety valve discharge rupture disks as K001A and B. However, P&ID RCS-M6-002, Revision 8, identifies these as K03 and 4. These two documents should be reconciled.  Closed - Table 3.9.6-16 identifies four head vent valves. As discussed in the response to 3.9.6.2-6, the fail safe test is incorporated into the exercise test. The requirements in lieu of inservice testing for nonreclosing pressure relief devices (rupture disks) are included in the last paragraph of SSAR subsection 3.9.6.2.2. Rupture disks are not included in Table 3.9.6-16 which is a table for valves. Action W - NRC letter dated October 11, 1996 include rupture disk on table. Review 5.4.9 (no rupture disks as pressure relief devices) for revision. Confirm N - Westinghouse response and SSAR markup provided by NSD-NRC-96-4917, 12/17/96. SSAR revisions included in Revision 10.	Schulz/Lindgren	Closed	Action W	NSD-NRC-96-4791	

# AP600 Open Item Tracking System Database: Executive Summary

Date: 2/28/97

Selection: [nrc st code]='Action W' And [DSER Section] like '3.9.6\*' Sorted by Item #

Item No.	Branch	DSER Section/ Question	Type	Title/Description Detail Status	Resp Engineer	(W) Status	NRC Status	Letter No. /	Date
1749	NRR/EMEB	3.9.6	MTG-OI	MEETING FOLLOW ON QUESTION 210.189 Valves CCS-PL-V257, PXS-PL-V044, RCS-PL-V011A and B, 12 A and B, 13A and B, 14 A through D, RCS-PY-K001A and B or (K03 and 4), SGS-PL-V250A and B, are included in the IST program, but are not included in Table 3.2-3, AP600 Classification of Components and Systems. Additionally, Valve CCS-PL-V257 is not included in Table 6.2.3-1. These documents should be reconciled. Closed - Tables 3.2.3, 3.9-16, and 6.2.3-1 have been revised in the SSAR and are consistent. Action W - NRC letter dated October 11, 1996 review Tables 6.2.3-1, 3.9-16, 3.9-12, 3.2-3, and figure 6.4-2 for consistency. Action W - Westinghouse response and SSAR markup provided by NSD-NRC-96-4917, 12/17/96. Changes to Table 3.2-3 and 6.2.3-1 will be added to the SSAR.	SSARREV/Schulz	Action W	Action W		
1753	NRR/EMEB	3.9.6	MTG-OI	MEETING FOLLOW ON QUESTION 210.193 Solenoid operated valves RCS-PL-V006A-D and 7A-D provide bypasses around the ADS valves. Neither the SSAR nor TS discuss the function of these valves, nor are they included in the IST program. Westinghouse should review the function of these valves to ensure that they do not have a fail-safe function. If it is determined that they have a fail-safe function, the valves should be included in the IST program. Closed - Information on bypass test lines added to SSAR section 5.4.6.2. Action W - NRC letter dated October 11, 1996 determine additional information (see 5.4.6.2) NRC needs. Also NRC letter of 12/9/96. Action N - Westinghouse response provided by NSD-NRC-96-4917, 12/17/96.	Lindgren	Closed	Action W		
1760	NRR/EMEB	3.9.6	MTG-OI	MEETING FOLLOW ON QUESTION 210.200 Check valves PXS-PL-V016, 17, 28, 29, 119, 120, 122, 123, 124, and PCS-PL-V014A and B are required to be exercised open. As discussed in NRC GL 89-04, Position 1, in order to verify the valve's full-stroke to the open position, the maximum required accident flowrate is required to be passed through the valve. The P&IDs do not include any flow elements that could be used to measure this flowrate. Westinghouse should review the proposed test method for these valves and ensure that the valves will be full-stroke opened as discussed in the GL. Closed - Valves PXS-PL-V120A and B and 123A and B have been changed to squib valves. Valves PCS-PL-V014A and B are not safety-related check valves. The other valves have a requirement for check exercise test. They will be exercised with sufficient flow to fully open the valves. That flow rate may be less than the maximum required accident flowrate. Action W - NRC letter dated October 11, 1996 resolve comments for Note 20 for PCS-PL-V014A&B. Action N - Westinghouse response provided by NSD-NRC-96-4917, 12/17/96.	Schulz	Closed	Action W	NSD-NRC-96-4791	
2066	NRR/EMEB	3.9.6	MTG-OI	March 14 & 15 meeting on IST - Westinghouse is proposing a semi-annual exercise of the first three stages of ADS valves (RCS-PL-V011A & B, 12A & B, and 13A & B) based on a risk benefit evaluation. This is different than the ASME OM test code requirements and does not qualify as a deferral to refueling justification due to impracticality. Justification for this frequency must be provided and an exemption request included in the SSAR. This item is a refinement of the second half of item 1742 (Meeting follow on question 210.181). Closed - SSAR Rev. 5 identified the six month test as requiring an exemption to regulations. Action W - See #1716. NRC letter of 12/9/96.	Schulz	Closed	Action W		
4998	NRR/EMEB	3.9.6	RAI-OI	RAI 210.227 - SSAR 3.9.6 (IST) Revise the SSAR to reflect correct reference of OM Standards, OMA-1988 or the 1990 Edition of the OM Codes. From the January 31, 1997, telephone conference, Westinghouse will send a letter requesting an exemption and revise the SSAR accordingly. Closed - Response provided in NSD-NRC-97-4989 of 2/19/97.	Schulz	Closed	Action W	NSD-NRC-97-4989	

## AP600 Open Item Tracking System Database: Executive Summary

Date: 2/28/97

Selection: [nrc st code]='Action W' And [DSER Section] like '3.9.6\*' Sorted by Item #

Item No.	Branch	DSER Section/ Question	Type	Title/Description Detail Status	Resp Engineer	(W) Status	NRC Status	Letter No. /	Date
4999	NRR/EMCB	3.9.6	RAI-OI	RAI 210.228 - SSAR 3.9.6 (IST) The main feedwater (FW) check valves, SGS-V058A/B appear to have a safety function to close based on SSAR Subsection 10.4.7.1.1. Revision 10 still indicates that these valves have a safety-related function, but they are not included in the ISTP (IST Program). In the January 31, 1997, telephone conference, Westinghouse stated that these valves do not perform a safety function and will move the FW check valve description from SSAR Subsection 10.4.7.1.1 to SSAR Subsection 10.4.7.1.2.	Schulz	Closed	Action W	NSD-NRC-97-4989	
				Closed - Response provided in NSD-NRC-97-4989 of 2/19/97.					
5000	NRR/EMEB	3.9.6	RAI-OI	RAI 210.229 - POV Test - SSAR 3.9.6 (IST) NRC issued Generic Letter (GL) 96-05 on periodic verification of MOVs. Westinghouse should revise WCAP-13559 to reflect implementation of this generic letter. Based on these documents, SSAR Subsection 3.9.6.2 should be revised to comply with staff guidance. This issue is related to Open Item Tracking System (OITS) Item Nos. 798, 800, 810 and 811. SSAR 3.9.6.2.2 should be revised to state that for POV test, where practical, the test will be performed under full flow with actual plant conditions. From the January 31, 1997, telephone conference, Westinghouse will review the GL and propose a resolution.	Schulz	Action W	Action W		
5001	NRR/EMEB	3.9.6	RAI-OI	RAI 210.230 - Safety Relief Valve Test - SSAR 3.9.6 (IST) The SSAR (Rev. 10) was revised to include "5 years and 20% in 2 years. For Class 2/3, the SSAR should be revised for consistency to include "10 years and 20% in 4 years." From the January 31, 1997, telephone conference, Westinghouse will revise the SSAR.	Schulz	Closed	Action W	NSD-NRC-97-4989	
				Closed - Response provided in NSD-NRC-97-4989 of 2/19/97.					
5002	NRR/EMEB	3.9.6	RAI-OI	RAI 210.231 - SSAR 3.9.6 (IST) The discussion of Issue 87 in SSAR Section 1.9 should be revised to state that valves built to Section III are required to be tested in accordance with the ASME Code. Revision 10 still states that these valves may be tested in accordance with the OM Code. From the January 31, 1997, telephone conference, Westinghouse will revise the SSAR.	Schulz	Closed	Action W	NSD-NRC-97-4989	
				Closed - Response provided in NSD-NRC-97-4989 of 2/19/97.					



## FAX to DINO SCALETTI

February 28, 1997

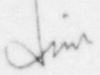
CC: Sharon or Dino, please make copies for:

Ted Quay  
Bill Huffman  
Diane Jackson  
Tom Kenyon  
Joe Sebrosky

Robin Nydes  
Cindy Haag  
Don Lindgren  
Bob Tupper  
Bruce Rarig  
Brian McIntyre  
Ed Cummins  
Bob Vijuk

NRC is requested to please acknowledge receipt of information related to each of the following Open Items. These are a subset of the items with "Action W" in "NRC Status" for which I have personally checked, since the first of the year, that we have submitted what we believe is the resolving information. Unlike those on the other list I will send you today, I have not prepared a background package for each of these. However, the reviewer in each case should have a submittal from Westinghouse as identified in OITS for the item. Recognizing that reviewing for completeness of the response in each case constitutes an NRC action, we recommend that receipt acknowledgement be accompanied by direction to change their "NRC Status" to "Action N". If these are truly "Action W", please provide a description of the action Westinghouse is expected to take. We know of no action required. This is the sixth weekly request of this type.

3, 21, 142, 157, 164, 172, 173, 177, 182, 184, 262, 300, 305, 308, 333, 405, 457, 458, 628, 681, 698, 706, 710, 716, 717, 718, 719, 722, 724, 729, 730, 731, 732, 740, 754, 757, 758, 782, 783, 786, 793, 801, 802, 805, 807, 809, 972, 973, 1009, 1037, 1038, 1039, 1040, 1041, 1043, 1045, 1052, 1053, 1055, 1101, 1102, 1195, 1197, 1210, 1225, 1226, 1227, 1228, 1231, 1232, 1317, 1458, 1461, 1697, 1698, 1699, 1700, 1701, 1702, 1703, 1704, 1707, 1716, 1727, 1730, 1731, 1736, 1740, 1742, 1745, 1747, 1753, 1760, 1792, 1793, 1797, 1802, 1803, 1807, 1885, 1888, 1996, 1999, 2018, 2019, 2023, 2024, 2025, 2034, 2040, 2045, 2066, 2051, 2199, 2200, 2201, 2202, 2272, 2273, 2347, 2348, 2349, 2442, 2457, 2515, 2676, 2683, 2684, 2686, 2691, 2698, 2939, 2942, 2945, 2958, 2959, 2960, 2961, 2962, 2963, 2964, 2965, 2966, 2967, 2968, 2969, 2970, 2971, 2972, 2973, 2974, 2975, 2976, 2977, 2978, 2979, 2981, 2982, 2983, 2984, 2985, 2986, 3057, 3098, 3122, 3126, 3127, 3128, 3197, 3247, 3372, 3398, 3399, 3400, 3401, 3402, 3427, 3439, 3468, 3469, 3470, 3471, 3472, 3473, 3505, 3517, 3895, 3944, 3945, 3946, 3947, 3948, 3949, 3950, 3951, 3952, 3953, 3954, 3955, 3956, 3957, 3958, 4118, 4119, 4123, 4124, 4125, 4126, 4127, 4128, 4129, 4130, 4131, 4132, 4133, 4134, 4135, 4136, 4137, 4138, 4139, 4140, 4141, 4142, 4143, 4144, 4151, 4224, 4225, 4226, 4227, 4998, 4999, 5001, and 5002.

  
Thanks  
Jim Winters  
412-374-5290

## FAX to DINO SCALETTI

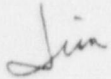
February 28, 1997

CC: Sharon or Dino, please make copies for: Diane Jackson  
Ted Quay

Don Lindgren  
Ed Johnson  
Ed Cummins  
Bob Vijuk  
Brian McIntyre

### OPEN ITEMS FOR SSAR SECTION 3.12

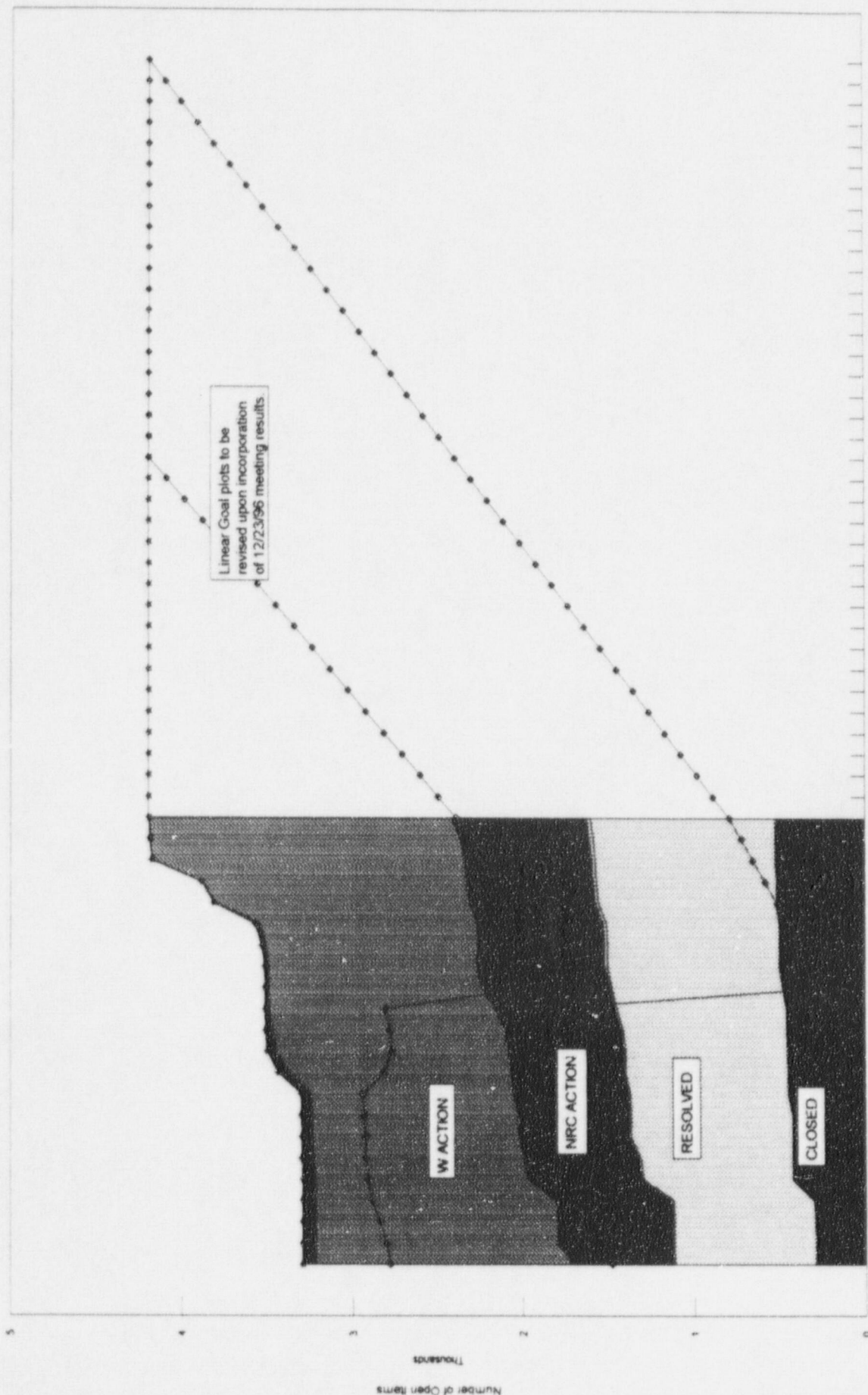
This is a background package for the remaining open items for SSAR section 3.12 for your information. SSAR section 3.12 is of interest because by our joint NRC/W schedule, the FSER for this section should be turned into Projects by the end of March. There are 4 Open Items with NRC Status of Action W. All 4 of these items still require some Westinghouse action. Thank you.



Jim Winters  
412-374-5290

# OPEN ITEM CLOSURE

02/28/97



OCT 3 OCT 17 OCT 31 NOV 14 NOV 27 DEC 12 DEC 26 JAN 9 JAN 23 FEB 6 FEB 20 MAR 6 MAR 20 APR 3 APR 17 MAY 1 MAY 15 MAY 29 JUN 12 JUN 26 JUL 10 JUL 24 AUG 7 AUG 21 SEP 4 SEP 18 OCT 2 OCT 16 OCT 30  
OCT 10 OCT 24 NOV 7 NOV 21 DEC 5 DEC 19 JAN 2 JAN 16 JAN 30 FEB 13 FEB 27 MAR 13 MAR 27 APR 10 APR 24 MAY 8 MAY 22 JUN 5 JUN 19 JUL 2 JUL 17 JUL 31 AUG 14 AUG 28 SEP 11 SEP 25 OCT 9 OCT 23 NOV 6

◆ Closed Goal	◆ Action W Goal	★ Total Open Items	■ Closed	□ Resolved	□ Confirm W
■ Confirm N	■ Audit N	■ Action I	■ Action W	■ Others	