

**Westinghouse Owners Group
and
U.S. Nuclear Regulatory Commission Meeting**

**Westinghouse Owners Group Topical Report Status Report
Thursday, February 26, 2004 / 11:00 AM - 3:00 PM**

**U.S. Nuclear Regulatory Commission
One White Flint North
11555 Rockville Pike, Room O-5B4
Rockville, Maryland 20852**



**Westinghouse Owners Group Topical Report Status Report
February 26, 2004**

Agenda

- **Opening Remarks (5 min.)** Ted Schiffley, Exelon, WOG Chairman
Herb Berkow, NRC
- **WOG Organizational Overview (10 min.)** Ted Schiffley
 - Points of Contact
- **Topical Report Review Process (30 min.)** Ken Vavrek, W
 - Pre-Application Meetings
 - Fee Waivers
 - Establishment of Review Schedule
 - Draft SE
 - Technical Branches
 - Topical Reports and TSTFs
- **Submitted WOG Topical Reports (60 min.) All**
 - Brief Status / Next Action
 - Schedule
 - Resource Estimates



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**Westinghouse Owners Group Topical Report Status Report
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Agenda (continued)

- **WOG Topical Reports to be Submitted (5 min.)** Ken Vavrek
 - Submittal Schedule

 - **Summary (15 min.)** Ken Vavrek
 - WOG/NRC Monthly PM Conference Call
 - Measuring Performance
 - Action Items
 - Closing Comments
- Ted Schiffley
Herb Berkow



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Opening Remarks Ted Schiffley, Exelon, WOG Chairman
Herb Berkow, NRC



**Westinghouse Owners Group Topical Report Status Report
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WOG Organizational Overview

Ted Schiffler



26 US Members

- | | |
|------------------------------|--------------------------------|
| AMEREN UE | OMAHA PUBLIC POWER DISTRICT |
| AMERICAN ELECTRIC POWER CO. | PACIFIC GAS & ELECTRIC CO. |
| ARIZONA PUBLIC SERVICE CO. | PROGRESS ENERGY |
| CONSTELLATION ENERGY GROUP | PSEG NUCLEAR |
| DOMINION NUCLEAR CONNECTICUT | ROCHESTER GAS & ELECTRIC CO. |
| DOMINION VIRGINIA POWER | SOUTHERN CALIFORNIA EDISON |
| DUKE ENERGY | SOUTH CAROLINA ELECTRIC & GAS |
| ENTERGY NUCLEAR NORTHEAST | SOUTHERN NUCLEAR OPERATING CO. |
| ENTERGY NUCLEAR SOUTH | STP NUCLEAR OPERATING CO. |
| EXELON GENERATION CO., LLC | TENNESSEE VALLEY AUTHORITY |
| FIRST ENERGY NUCLEAR OP. CO. | TXU ELECTRIC |
| FPL GROUP | WOLF CREEK NUCLEAR OP. CO. |
| NUCLEAR MANAGEMENT CO. | WESTINGHOUSE ELECTRIC |



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WOG Organizational Overview (continued)

9 International Members

- | | |
|--|---|
|  British Energy LTD |  Nuklearna Elektrarna Krško |
|  Electrabel |  Ringhals AB |
|  Electricité de France |  Spanish Utilities |
|  Kansai Electric Co., Ltd. |  Taiwan Power Company |
|  Korea Hydro and Nuclear Power Corporation | |



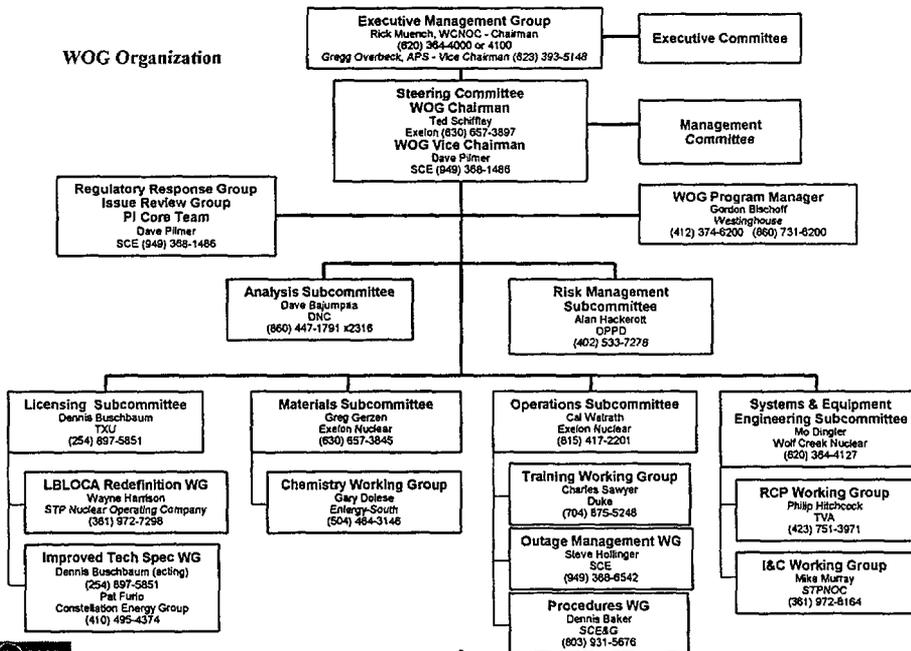
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WOG Organizational Overview (continued)

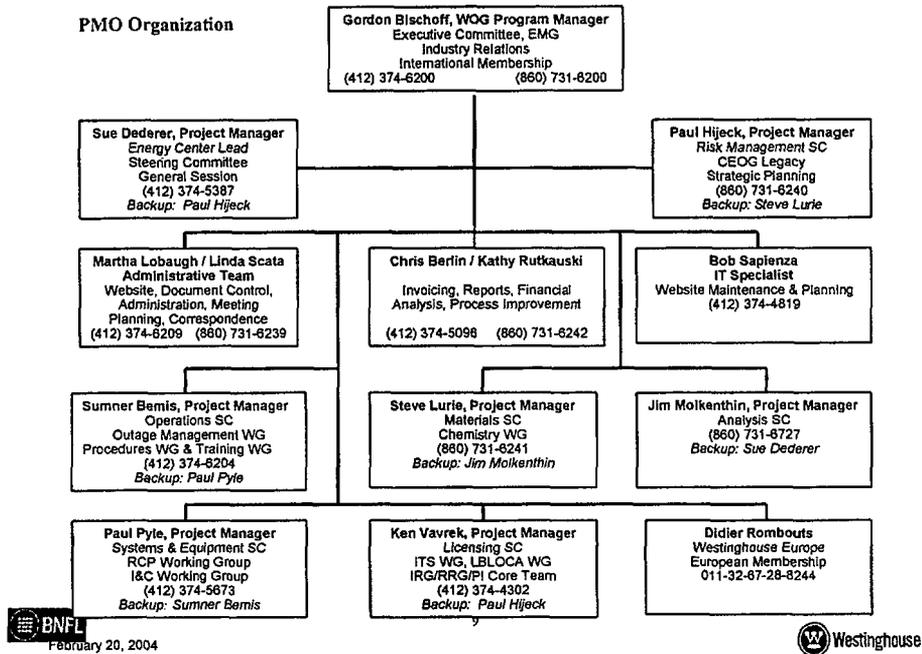
- Combined, the WOG represents
 - 34 utility organizations
 - 153 operating reactors
 - 71 sites
 - 10 countries
- One-third of the world's operating reactors are WOG members
- Presents unparalleled opportunities to share best practices on a global scale



WOG Organization



PMO Organization



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WOG Points-of-Contact:

- **Regulatory / Safety Issues for both W and CE Plants:**
 - Ted Schiffley, Exelon, WOG Chairman
 - or
 - Gordon Bischoff, Westinghouse, Program Manager
- **Senior Management Meeting or Issues**
 - Sue Dederer, Westinghouse, Program Lead
- **Topical Report Issues, Meeting and Conference Calls**
 - Ken Vavrek, Westinghouse, Program Lead
 - or
 - Denny Buschbaum, TXU, WOG Licensing Subcommittee Chairman



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WOG Points-of-Contact: (continued)

- **Formal Correspondence to WOG/Westinghouse**
 - **To:** Gordon Bischoff, Westinghouse, Program Manager
 - **cc:** Ted Schiffley, Exelon, WOG Chairman
 - Ken Vavrek, Westinghouse
 - Sue Dederer, Westinghouse

- **Topical Report Invoices:**
 - **To:** Chris Berlin, Westinghouse



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**Westinghouse Owners Group Topical Report Status Report
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Topical Report Review Process Ken Vavrek, Westinghouse

- NRR Office Instruction LIC-500, Revision 2, *Processing Requests for Reviews of Topical Reports*

- NRC Letter (Herb Berkow, NRR-Division of Licensing Project Management, to Gordie Bischoff, WOG Project Manager), *Implementation of a Revised Review Process for Topical Reports*, October 21, 2003.
 - Effective October 1, 2003

Feedback (+’s and -’s)



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Topical Report Review Process

- **Pre-Application and Technical Meetings**
 - WOG will support meetings as requested by the Staff
 - NRC has supported WOG requests for meetings, however, several requests have been refused:
 - WCAP-15831 Risk-Informed ATWS Assessment and Licensing Implementation Process; Meeting to discuss RAIs
 - WCAP-16084 Risk Informed Safety Analysis; Pre-application Meeting
 - WOG will request a pre-application meeting *near the completion of the TR*; approximately 3-6 months prior to submittal of the TR
 - For *First-of-a-kind TRs* the WOG will request a pre-application meeting prior to the development of the TR and another meeting after the development of the TR
 - Need NRC to meet with the WOG as requested



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Topical Report Review Process

- **Fee Waivers**
 - Must be requested and approved prior to the start of the review
 - No completion time requirement for issuance of a fee waiver decision
 - Fee waiver decision adds significant time to the review process, examples:
 - WCAP-16168, *Risk Informed Extension of Reactor Vessel In-Service Inspection Intervals*, submitted October 31, 2003; still no formal decision on fee waiver
 - WCAP-15830, *Staggered Integrated ESF Testing*, submitted April 21, 2003 and fee waiver denied July 21, 2003
 - Need a nominal completion time for issuance of a fee waiver decision



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Topical Report Review Process

- **Establishment of Review Schedule**
 - NRC to hold a conference call during the acceptance review period (45 days from submittal of the TR) to establish agreed upon review schedule
 - WOG *will support* the conference call
 - WOG/W Conference call participation:
 - *Responsible Subcommittee Chairman*
 - *Lead Plant Representatives*
 - *Westinghouse PMO Representative*
 - *WOG/W Licensing Representative*
 - Waiting for NRC to utilize this new process step for WCAP-16168



**Westinghouse Owners Group Topical Report Status Report
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Topical Report Review Process

- **Establishment of Review Schedule (continued)**
 - Per the Oct. 21, 2003 NRC letter
 - TR submittal letters must include a requested completion date with a detailed explanation of the basis for the date
 - WOG *will* include a *reasonable* completion date *and justification*



**Westinghouse Owners Group Topical Report Status Report
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Topical Report Review Process

- **Establishment of Review Schedule (continued)**
 - Per the Oct. 21, 2003 NRC letter
 - RAI responses within 30 calendar days of receipt
 - Some WOG RAI responses have delayed the review, examples;
 - WCAP-15622, *Risk-Informed Evaluation to Extensions to AC Electrical Power System Completion Times*, ~10 months for RAI responses
 - WCAP-15691, *Containment Integrated Leak Rate Test Interval Extension*, ~ 10 months for RAI responses
 - WOG will provide RAI responses based on the agreed upon review schedule
 - WOG goal to provide RAI responses within 90 days



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**Westinghouse Owners Group Topical Report Status Report
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Topical Report Review Process

- **Establishment of Review Schedule (continued)**
 - Missed review milestones impact *both* WOG and NRC ability to meet subsequent milestones
 - *Both NRC and WOG* need to notify each other ASAP if review milestones cannot be met



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**Westinghouse Owners Group Topical Report Status Report
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Topical Report Review Process

- **Draft Safety Evaluations (SE)**
 - NRC to issue draft Safety Evaluation to applicant for review and comment
 - Applicant has 10 working days to comment on proprietary classification and 10 additional working days to comment on factual or clarity issues
 - WOG *will* review and comment on all draft SEs
 - WOG has provided comments on 3 drafts SEs:
 - WCAP-15966 CENTS, comments Oct. 31, 2003
 - WCAP-14572 RI ISI, comments January 21, 2004
 - WCAP-14040 COMS, comments February 18, 2004
 - Good practice, will help avoid interpretation issues with final SE



**Westinghouse Owners Group Topical Report Status Report
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Topical Report Review Process

- **NRC Technical Branch Reviews**
 - Reviews initiated on TRs without having the necessary Technical Branches involved have been delayed, examples:
 - WCAP-15996 CENTS Code - Dose Assessment Branch
 - WCAP-15830 Staggered ESF Testing - Electrical I&C Branch
 - WCAP-14040 Methodology Used to Develop COMS Setpoints and RCS HU and CD Limit Curves - Reactor Systems Branch
 - NRC needs to ensure the necessary Technical Branches are involved from the start of the review process



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Topical Report Review Process

- **Topical Reports and TSTFs**
 - TRs will include Tech Spec mark-ups as appropriate
 - TSTF will be submitted during the TR review process
 - WOG and NRC need to increase coordination of TR and TSTFs reviews
 - TR and TSTF reviews performed concurrently
 - SE and TSTF approval should also be concurrent



**Westinghouse Owners Group Topical Report Status Report
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Submitted WOG Topical Reports All

- Brief Status / Next Action
- Schedule
- Resource Estimates



**Westinghouse Owners Group Topical Report Status Report
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Topical Reports Submitted for Review and Approval

WCAP	Title	Final SE Expected	TSTF
14572	Addendum to WOG Application of RI Methods to Piping ISI – Changes to Augmented Inspection Requirements	2/04	
15622	Risk-Informed Evaluation to Extensions to AC Electrical Power System Completion Times	TBD	X
14040	Methodology Used to Develop Cold Overpressure Mitigating Systems Setpoints and RCS Heatup and Cooldown Limit Curves	2/04	
15973	Low Alloy Steel Analyses to Support A600/A690 Nozzle Repairs	5/04	
1199	Failure of RCP Seals for a Loss of Seal Cooling	5/04	
15872	Alternate Decay Heat Removal in Mode 6 Refueling	6/04	X
15830	Staggered Integrated ESF Testing	6/04	X
16125	Risk-Informed Modifications to Selected 3.0.3 Tech Specs for Conditions Leading to Exigent Plant Shutdown w/2 trains OOS	6/04	X
15791	Risk-Informed Evaluation of Extensions to CIV Completion Times	6/04	X



**Westinghouse Owners Group Topical Report Status Report
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Topical Reports Submitted for Review and Approval

WCAP	Title	Final SE Expected	TSTF
15977	Reliability Assessment of Cutler-Hammer Relays	6/04	
15996	Technical Description Manual for CENTS Code - Dose Model	7/04	
16011	Startup Test Activity Reduction	TBD	X
15831	Risk-Informed ATWS Assessment and Licensing Implementation Process	7/04	
15773	Implementation of Risk-Managed Technical Specification for HPSI	TBD	X
15691	Containment Integrated Leak Rate Test Interval Extension	8/04	
16168	Risk Informed Extension of Reactor Vessel ISI Intervals	9/04	



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**WCAP-15996-P / TAC MB6982
Technical Description Manual for the CENTS Code**

- 12/13/02 WCAP submitted for review (CEOG-02-256)
- 8/22/03 Need PRA Branch review for Dose Model.
- 12/1/03 SE issued without approval of Dose and CEA Ejection Models
- 2/23/04 WOG/NRC call on Dose and CEA Ejection Models.
- 4/30/04 NRC to issue draft SE to WOG for review.
- 5/28/04 WOG to provide comments on draft SE.
- 7/16/04 NRC to issue final SE to WOG.
- 8/20/04 WOG to submit approved WCAP version to NRC.

	<u>Acceptance Letter</u>	<u>Actual</u>
Issue RAIs	3/31/03	4/8/03
Response to RAIs	-	6/13/03
Issue SE	6/30/03	12/1/03
Review Hours (as of 12/31/03)	400	393

Contributing factors for delay: Lead reviewer out for medical leave requiring a new reviewer; no pre-application meeting resulted in miscommunication on scope of review to include dose and CEA ejection models.



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**WCAP-16011-P / TAC MB8724
Startup Activity Reduction Program**

- 3/31/03 WCAP submitted for review (WOG-03-198).
- 2/3/04 New reviewer assigned; WOG/NRC meeting for 2/11- 2/13/04 cancelled.
- TBD NRC to issue any additional RAIs.
- TBD WOG/NRC meeting.
- TBD WOG to provide formal RAI responses.
- TBD NRC to issue draft SE to WOG for review.

	<u>Acceptance Letter:</u>	<u>Actual</u>
Issue RAIs	8/15/03	9/24/03
Response to RAIs	-	12/19/03
Issue SE	3/30/04	7/30/04 (est.)
Review Hours (as of 12/31/03)	480	254

Contributing factors for delay: Cancellation of WOG/NRC meeting and new reviewer.



**Westinghouse Owners Group Topical Report Status Report
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WCAP-16084-NP

Development of Risk-Informed Safety Analysis Approach and Pilot Application

- 11/12/03 WCAP submitted for review (WOG-03-601).
- 12/8/03 NRC informally notified WOG of intent to reject WCAP.
- 12/30/03 WOG withdrew WCAP and requesting meeting with NRC (WOG-03-653).
- 1/15/04 WOG emailed meeting objectives and draft agenda to NRC.
- 3/3/04 WOG/NRC meeting to discuss WCAP.

Contributing factors for rejection: No pre-application meeting; request for pre-application meeting not supported; scope of approval requested being too broad.



**Westinghouse Owners Group Topical Report Status Report
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WCAP-15872-NP / TAC MB9020

Use of Alternate Decay Heat Removal in Mode 6 Refueling

- 5/12/03 WCAP submitted for review (WOG-03-254).
- 1/9/04 NRC to have draft SE by 1/28/04.
- 1/13/04 NRC emails concerns for possibly rejecting WCAP.
- 2/17/04 WOG/NRC call to discuss technical basis for rejection.
- 3/18/04 WOG/NRC meeting scheduled to discuss WCAP models.
- 4/30/04 NRC to issue draft SE for review.

	<u>Acceptance Letter:</u>	<u>Actual</u>
Issue RAIs	8/15/03	8/13/03
Response to RAIs	-	12/12/03
Issue SE	2/28/04	6/30/04 (est.)
Review Hours (as of 12/31/03)	300	172

Contributing factors for delay: NRC declined meetings with WOG after submittal and after receipt of RAIs; new NRC concerns raised after RAI responses provided.



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WCAP-15831-P / TAC MB5741

Risk-Informed ATWS Assessment and Licensing Implementation Process

- 7/23/02 WCAP submitted for review (OG-02-027).
- 1/23/03 NRC issued acceptance letter.
- 9/24/03 WOG issued letter requesting meeting (WOG-03-494).
- 12/11/03 WOG/NRC Meeting. WOG to deleting Configuration Management Option 2.
NRC to issue revised RAIs.
- 12/30/03 WOG letter deleting Configuration Management Option 2 (WOG-03-664)
- 2/27/04 NRC to issue revised RAIs.
- 3/16/04 WOG/NRC Configuration Management meeting.

	<u>Acceptance Letter:</u>	<u>Actual</u>
Issue RAIs	3/31/03	7/24/03
Response to RAIs	-	4/15/03 (est.)
Issue SE	12/31/03	7/30/04 (est.)
Review Hours (as of 12/31/03)	800	390

Contributing factors for delay: Review started 6 months after submittal; RAIs issued 4 months late, scheduling of WOG/NRC meeting delayed 2 months; revised RAIs late.



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WCAP-15973-P / NPSD-1198-P / TAC MB6805

Low Alloy Steel Analyses to Support A600/A690 Nozzle Repairs

- 11/11/02 WCAP submitted for review.
- 3/11/03 NRC issued acceptance letter.
- 2/27/04 NRC to provide draft SE.
- 3/26/04 WOG to provide comments on draft SE.
- 5/7/04 NRC to issue final SE to WOG.
- 6/4/04 WOG to submit approved WCAP version to NRC.

	<u>Acceptance Letter:</u>	<u>Actual</u>
Issue RAIs	4/30/03	5/27/03
Response to RAIs	-	10/6/03
Issue SE	6/30/03	5/7/04 (est.)
Review Hours (as of 12/31/03)	220	231

Contributing factor for delay: Late acceptance letter; response to RAIs, and NRC issuance of draft SE (5 months after receipt of RAI responses).



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WCAP-14572-NP / TAC MB7995

Addendum to WOG Application of RI Methods to Piping

In-Service Inspection – Changes to Augmented Inspection Requirements

- 12/21/99 WCAP submitted for review (OG-99-99).
- 2000-03 Resolution of RAIs. Revised WCAP submitted. WOG/NRC discussions and meetings. Pilot program and additional information provided 4th Q 2002.
- 6/02/03 NRC provided additional RAIs.
- 7/21/03 W provided RAI responses (WOG-03-063).
- 12/22/03 NRC issued draft SE.
- 1/21/04 WOG issued letter WOG-04-037 with comments on draft SE.
- 2/27/04 NRC to issue final SE to WOG.
- 3/26/04 WOG to submit approved WCAP version to NRC.

Acceptance Letter: None

Review Hours Fee wavier

Contributing factors for delay: Request for pilot program; WOG selection and funding for pilot project; issuance of draft SE (5 months after receipt of RAI responses); issuance of final SE.



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WCAP-16168-NP

Risk Informed Extension of Reactor Vessel In-Service Inspection Intervals

- 9/24/03 WOG/NRC pre-application meeting.
- 10/31/03 WCAP submitted for review (WOG-03-565).
- 1/26/04 NRC informally notified WOG that review fees will not be waived.
- 2/13/04 WOG letter agreeing to a fee billable review (WOG-04-075).
- TBD NRC to issue letter rejecting fee wavier.
- TBD WOG/NRC to have call to discuss review schedule.
- TBD NRC to issue acceptance letter.
- 9/30/04 WOG request for final SE.

<u>Acceptance Letter:</u>	<u>To be issued</u>	<u>Actual</u>
Review Hours (as of 12/31/03)	TBD	22

Contributing factor for delay: Resolution of fee wavier.



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**CENPSD-1199-P / WCAP-16175-P / TAC MB5803
Failure of RCP Seals Given a Loss of Seal Cooling**

10/18/00 WCAP submitted for review (CEOG-00-305).
7/2001 Draft RAIs issued.
10/16/01 NRC issued RAIs (~100).
4/30/02 CEOG provided RAI responses (CEOG-02-081).
5/2003 NRC issued additional draft RAIs / WOG/NRC call to discuss RAI responses.
10/6/03 WOG provided RAI responses (WOG-03-510).
10/27/03 NRC requested revised WCAP incorporating RAI responses.
1/22/04 WCAP-16175 submitted as revision to NPSD-1199 (WOG-04-039).
TBD NRC to issue letter concurring with Proprietary Information.
3/12/04 NRC to issue draft SE to WOG for review.
4/9/04 WOG to provide comments on draft SE.

Acceptance Letter: None
Review Hours (as of 12/31/03) 554

Contributing factors for delay: Completeness of WCAP resulting in large number of RAIs; WOG resolution of RAIs and issuance of revised WCAP.



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**Westinghouse Owners Group Topical Report Status Report
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WCAP-15773

Implementation of a Risk Management Technical Specification for the HPSI System

1/21/03 WCAP submitted via NEI.
10/02/03 NRC accepted WCAP/TSTF for review: provided 34 comments.
11/14/03 RI TSTF meeting to review comments.
12/16/03 RI TSTF meeting to review comments.
1/29/04 RI TSTF meeting to review comments and responses.
TBD NRC to provide RAIs.
TBD WOG/NEI to provide RAI responses.

Acceptance Letter: None
Review Hours Fee wavier

Contributing factors for delay: NRC issuance of RAIs: completeness of WCAP based on number of RAIs, WOG resolution of RAIs.



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WCAP-15691-P

Joint Applications Report for Containment ILRT Interval Extension

7/19/01 WCAP submitted for review (CEOG-01-184).
2/8/02 NRC RAI on age-related containment degradation.
2002-03 Submittal and approval of several plant specific 1-time 15 yr extensions.
4/10/02 CEOG/NRC call on acceptable statistical methods.
1/17/03 CEOG approved program to provide RAI responses.
6/16/03 NRC issued formal RAIs.
3/31/04 WOG to issue revision to WCAP.
5/31/04 NRC to issue draft SE to WOG for review.
6/25/04 WOG to provide comments on draft SE.

Acceptance Letter: None
Review Hours (as of 12/31/03) 162

Contributing factor for delay: Technical disagreement; WOG approval of new program to address RAIs; issuance of revise WCAP.



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WCAP-16125-NP / CE NPSD-1208 / TAC MB1257

Justification of Risk-Informed Modifications to Selected Technical Specifications for Conditions Leading to Exigent Plant Shutdown

1/24/01 WCAP submitted via NEI.
5/01 NRC Issued draft RAIs.
2/02 RAI responses provided.
10/3/03 WCAP-16125 submitted - incorporate RAI responses (WOG-03-527).
11/13/03 NRC/NEI RI TSTF meeting.
4/30/04 NRC to issue draft SE to WOG for review.
5/30/04 WOG/NEI to provide comments on draft SE.
6/30/04 NRC to issue final SE.

Acceptance Letter: None
Review Hours Fee wavier

Contributing factor for delay: WOG resolution of RAIs and issuance of revised WCAP.



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**WCAP-15830-P / TAC MB9131
Staggered Integrated ESF Testing**

- 4/21/03 WCAP submitted for review (WOG-03-219).
- 7/21/03 NRC issued letter rejecting fee wavier.
- 10/31/03 WOG/NRC call on RAIs. Need Electrical/I&C Branch review.
- 1/7/04 OPPD/NRC/WOG call on lead plant application and WCAP questions.
- 2/2/04 WOG/NRC call to discuss RAIs. Common cause issue resolved. No RAIs from I&C. Possible RAIs from electrical section.
- TBD WOG to provide responses to draft RAIs.
- 4/30/04 NRC to issue draft SE.

	<u>Acceptance Letter:</u>	<u>Actual</u>
Issue RAIs	10/15/03	10/20/03
Response to RAIs	-	12/12/03
Issue SE	3/15/04	6/30/04 (est.)
Review Hours (as of 12/31/03)	160	215

Contributing factors for delay: Resolution of fee wavier request; not all TBs involved from start of review; WOG resolution of RAIs.



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**WCAP-15622-NP / TAC MB2257
Risk-Informed Evaluation to Extensions to AC Electrical Power System CTs**

- 6/15/01 WCAP submitted for review.
- 1/2/02 NRC issued RAIs. (PRA Branch)
- 1/17/02 NRC issued additional RAIs (electrical branch).
- 11/27/02 RAI responses transmitted to NRC (OG-02-053).
- 6/3/03 NRC issued additional draft RAIs.
- 7/24/03 W/NRC call to discuss RAIs.
- 8/14/03 W/NRC call to discuss RAIs.
- 11/4/03 WOG emailed draft RAI response to NRC.
- 11/20/03 WOG/NRC call, NRC reviewing draft RAI responses.
- 12/10/03 WOG issued formal RAI responses and revised results (WOG-03-653).
- TBD NRC to issue draft SE for WOG review.
- TBD WOG/NEI to provide comments on draft SE.

<u>Acceptance Letter:</u>	None
Review Hours (as of 12/31/03)	602

Contributing factor for delay: WOG resolution of RAIs due to support from lead plants.



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WCAP-15791-P / TAC MB5751

Risk-Informed Evaluation of Extensions to CIV Completion Times

6/6/02 WCAP submitted for review (OG-02-022).
 1/23/03 NRC issued acceptance letter.
 2/28, 4/2, 5/08, 9/25, 10/9, 11/20 NRC/WOG calls on RAIs and responses.
 07/3/03 NRC issued RAIs formally (WOG-03-374).
 2/13/04 WOG issued revised RAIs responses (WOG-04-077).
 3/31/04 WOG to issue revised WCAP.
 4/30/04 NRC to issue draft SE to WOG for review.
 TBD Need NRC a letter concurring with Proprietary classification.

	<u>Acceptance Letter:</u>	<u>Actual</u>
Issue RAIs	2/15/03	2/12/03
Response to RAIs	-	2/13/04
Issue SE	6/30/03	6/18/04 (est.)
Review Hours (as of 12/31/03)	80	301

Contributing factors for delay: Review started 7 months after submittal; technical disagreement; issuance of revised WCAP.



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WCAP-14040-NP / TAC MB5754

Methodology Used to Develop Cold Overpressure Mitigating Systems Setpoints and RCS Heatup and Cooldown Limit Curves

5/23/02 WCAP submitted for review (OG-02-018).
 1/24/03 NRC issued acceptance letter.
 4/29/03 Call with NRC to discuss draft RAIs.
 10/20/03 WOG issued RAIs responses & revised fluence section (WOG-03-550).
 2/2/04 NRC issued draft SE for review and comment.
 2/18/04 WOG provided comments on draft SE (WOG-04-086).
 2/27/04 NRC to issue final SE.

	<u>Acceptance Letter:</u>	<u>Actual</u>
Issue RAIs	4/30/03	3/25/03
Response to RAIs	-	12/12/03
Issue SE	12/30/03	3/12/04 (est.)
Review Hours (as of 12/31/03)	200	95

Contributing factors for delay: Review started 9 months after submittal; WCAP revised to incorporate current methods; not all TBs involved from start of review.



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**Westinghouse Owners Group Topical Report Status Report
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**WCAP-15977-P / TAC MC0159
Reliability Assessment of Cutler-Hammer
D26MR802A Relays Used as SSPS Slave Relays**

- 7/14/03 WCAP submitted for review (WOG-03-351).
- 9/8/03 NRC issued acceptance letter.
- 2/27/04 NRC to issue decision on Proprietary Information.
- 3/1/04 NRC to issue RAIs per acceptance letter.
- 3/31/03 W to provide responses to RAIs.

	Acceptance Letter	Actual
Issue RAIs	3/1/04	3/1/04 (est.)
Response to RAIs	-	3/31/04 (est.)
Issue SE	6/30/04	6/30/04 (est.)
Review Hours (as of 12/31/03)	275	63

Contributing factor for delay: NRC review of WCAP.



**Westinghouse Owners Group Topical Report Status Report
February 26, 2004**

WOG and NRC Performance on Completed TR Reviews

	1998-2000	2001-2003
Within 2 yrs - Goal 95%	50% <i>11 of 22</i>	54% <i>7 of 13</i>
Within 3 yrs - Goal 100%	68% <i>15 of 22</i>	85% <i>11 of 13</i>
Average Review (months)	27	23



**Westinghouse Owners Group Topical Report Status Report
February 26, 2004**

**WOG and NRC Projected Performance
on TRs Currently Under Review**

	<u>April</u> <u>2003</u>	<u>June</u> <u>2003</u>	<u>Oct.</u> <u>2003</u>	<u>Feb.</u> <u>2004</u>
Within 2 yrs - NRC Goal 95%	40% <i>6 of 15</i>	64% <i>9 of 14</i>	67% <i>10 of 15</i>	67% <i>10 of 15</i>
Within 3 yrs - NRC Goal 100%	87% <i>13 of 15</i>	86% <i>12 of 14</i>	87% <i>13 of 15</i>	80% <i>12 of 15</i>
Average Review (months)	21	16	20	25



**Westinghouse Owners Group Topical Report Status Report
February 26, 2004**

**WOG and NRC Projected Performance
on TRs Currently Under Review**

Average Review Times

- TR submittal to acceptance letter 5 months
- Acceptance letter to RAIs 5 months
- RAIs to RAI responses 7 months
- RAI responses to Final SE 8 months



**Westinghouse Owners Group Topical Report Status Report
February 26, 2004**

WOG Topical Reports to be Submitted

Ken Vavrek, W

- Submittal Schedule
- Expected Technical Branch Reviews



**Westinghouse Owners Group Topical Report Status Report
February 26, 2004
Topical Reports to be Submitted in 2004**

WCAP	Title	Submit	Fee Wavier	Prop.	TSTF
WCAP-16083	Best Estimate Fluence Methodology (FERET code)	3/04			
MPR-2524*	Periodic Verification MOVs GL 96-05	2/04	X		
WCAP-15957	Risk Informed AOT Extensions: Fluid Systems	3/04		X	X
WCAP-15472-S2	RI Methods to Piping ISI - Responses to Concerns	3/04	X		
WCAP-15981	PAM Systems Requirements: A Technical Basis	3/04	X		X
WCAP-16168-S1	RI Extension of RVISI Intervals - B&W Plants	4/04			
WCAP-TBD	Risk Informed Tech Spec End States	5/04	X		X
WCAP-TBD*	Pilot Plant Implementation of 10CFR50.69 (WC)	7/04	X		
WCAP-TBD*	Pilot Plant Implementation of 10CFR50.69 (Surry)	8/04	X		



Westinghouse Owners Group Topical Report Status Report February 26, 2004

Summary

- WOG/NRC Monthly PM Conference Call Ken Vavrek
- Measuring Performance
- Action Items
- Closing Comments Ted Schiffley
Herb Berkow



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Westinghouse Owners Group Topical Report Status Report February 26, 2004

WOG/NRC Monthly PM Conference Call

- Appreciate NRC commitment to support monthly calls.
- Helps WOG/W better understand the internal NRC processes.
- Helps identify higher priority actions.
- Helps keep all reviewers moving forward.



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Westinghouse Owners Group Topical Report Status Report February 26, 2004

Measuring Performance

- WOG will continue to measure and track performance based on overall length of reviews (submittal to SE) as well as individual aspects (acceptance letter, RAIs, RAI responses, SE, hours)
- Need NRC *and* Westinghouse/WOG to meet commitments in order for all of us to be successful.
- Staff Feedback



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Action Items / Closing Remarks

Ted Schiffley
Herb Berkow



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