

May 2, 1986

VENDOR: Westinghouse Electric Corporation

SUBJECT: MEETING SUMMARY FOR APRIL 24, 1986, MEETING WITH WESTINGHOUSE ELECTRIC CORPORATION TO DISCUSS WESTINGHOUSE CORE RELOADS IN BOILING WATER REACTORS SPECIFICALLY, NINE MILE POINT 2

On April 24, 1986, the NRC staff met with representatives of Westinghouse Electric Corporation (W) to discuss W core reloads for Boiling Water Reactors (BWRs). Representatives were also present from Niagara Mohawk Power Corporation (NMPC). This meeting was a follow-up to the February 19, 1986, meeting on the same subject.

The main topic of the meeting was the schedule for W submittal and NRC review of W topical reports for core reloads in BWRs. Enclosure 1 contains a handout from W identifying a schedule for submittal and review of each of the topical reports.

NMPC and W are planning on limiting the number and locations of W fuel bundles in the Spring 1988 reload at Nine Mile Point 2 (NMP-2) so that NRC review and approvals of the proposed topical reports will not be required for that reload. W did identify a need for review and approval of these reports by Spring 1989. The list of NRC review dates in Enclosure 1 however identifies only the dates when W would like to see each of the topical reports reviewed not when the review is needed. As some of these reports may be interdependent and a "need" date may be before Spring 1989 W was requested to identify the "need" date for each topical report.

W stated that the report on GOBLIN is being withdrawn and the report on COMPUS was submitted for information only. NRC confirmed that RAMONA would need to be qualified if it is to be used for a safety evaluation.

W identified the priority for review of the topical reports should be 1) LOCA, 2) Transient, and 3) Nuclear.

NRC stated new topical reports are to be sent to Jesse Funches.

Enclosure 2 contains a list of meeting attendees.

8605090336 860502
PDR ADOCK 05000410
A PDR

[Signature]
Mary F. Haughey, Project Manager
BWR Project Directorate No. 3
Division of BWR Licensing

Enclosures:
As stated

cc: See next page

[Signature]
BWD-3:DBL
MHaughey/hmc
4/30/86

[Signature]
BWD-3:DBL
EAJensam
4/30/86

THE UNITED STATES OF AMERICA
DO hereby certify that the following is a true and correct copy of the original as the same appears in the records of the Department of the Interior.

TO ALL WHOM THESE PRESENTS SHALL COME, I GREETING.

WHEREAS, the following is a true and correct copy of the original as the same appears in the records of the Department of the Interior.

AND WHEREAS, the following is a true and correct copy of the original as the same appears in the records of the Department of the Interior.

IN WITNESS WHEREOF, I have hereunto set my hand and the seal of the Department of the Interior at Washington, D. C., this 1st day of January, 1900.

Very truly yours,
J. M. McKim

Assistant Secretary of the Interior

By _____

Witness my hand and the seal of the Department of the Interior at Washington, D. C., this 1st day of January, 1900.

Very truly yours,
J. M. McKim

Assistant Secretary of the Interior

By _____

Very truly yours,
J. M. McKim

Mr. B. G. Hooten
Niagara Mohawk Power Corporation

Nine Mile Point Nuclear Station
Unit 2

CC:

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May 2, 1986

MEETING SUMMARY DISTRIBUTION

Docket No(s): 50-410

NRC PDR

Local PDR

BWD #3 r/f

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E. Adensam

Attorney, OELD

E. Jordan

B. Grimes

ACRS (10)

Project Manager M. Haughey

E. Hylton,

NRC PARTICIPANTS

M. Haughey

T. Collins

W. Hodges

L. Phillips

bcc: Applicant & Service List



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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SCHEDULE

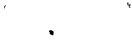
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|------|--------------------------------------|---------------------------|
| I. | NINE MILE POINT UNIT 2 | <u>FALL 1990</u> |
| | - CYCLE 3 START DATE | |
| II. | CYCLE 3 SER SUBMITTAL TO NRC | <u>RESTART - 6 MONTHS</u> |
| | - EISENHUT LETTER (8-20-84) | |
| | - TECH SPEC CHANGES | |
| | - SIGNIFICANT HAZARDS CONSIDERATIONS | |
| III. | CYCLE 3 DESIGN | <u>SER - 12 MONTHS</u> |
| | - MIXED CORE/TRANSITION CYCLE | |
| | - FIRST W BWR RELOAD | |
| | - ANALYSIS WITH APPROVED METHODOLOGY | |
| | - SER PREPARATION | |
| | - NIAGARA MOHAWK REVIEW | |
| IV. | NRC TARGET FOR FINAL APPROVAL | <u>SPRING 1989</u> |

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QUAD+ LICENSING SUBMITTALS

<u>SUBMITTAL DATE</u>	<u>STATUS</u>	<u>SER</u>	<u>ITEM</u>
6/82	SUBMITTED	RECEIVED	NUCLEAR DESIGN CODES DESCRIPTION TOPICAL: PHOENIX/POLCA
6/82	SUBMITTED	RECEIVED	THERMAL-HYDRAULICS CODE: CONDOR
1/83	SUBMITTED	N/A	FUEL ROD MODEL: PAD
3/83	SUBMITTED	N/A	ECCS EVALUATION MODEL: GOBLIN SERIES OF CODES
10/85	INFORMATION	N/A	COMPUS ON-LINE MONITORING SOFTWARE PROGRAM
9/85	SUBMITTED		NUCLEAR DESIGN CODES QUALIFICATION
1/86	SUBMITTED		8X8 CPR CORRELATION
6/86			CHANNEL HYDRODYNAMICS STABILITY CODE AND METHODOLOGY: MAZDA
8/86			TRANSIENT ANALYSIS METHODS: BISON
9/86			QUAD+ CPR CORRELATION
9/86			LOCA EVALUATION METHOD* (APP. K)
1/87			RAMONA CODE QUALIFICATION
6/87			LOCA EVALUATION MODEL* SENSITIVITY STUDIES
6/87			BWR FUEL ROD ANALYSIS METHODS
6/87			LOCA APP. K. CALCULATION *
6/87			BASIC SAFETY REPORT

* GOBLIN, CHACHA, DRAGON SERIES OF CODES



NRC REVIEW TIMES

REPORT -----	SUBJECT -----	SUBMITTAL -----	SER -----	MONTHS -----
WCAP-9500	OPTIMIZED FUEL	7-79	8-81	25
WCAP-10444	VANTAGE 5 FUEL	12-83	7-85	19
WCAP-8846	HYBRID B4C RCCA	9-76	9-77	12
WCAP-8720	PAD 3.3	11-76	2-79	27
NS-EPR-2649	RELAXATION OF CAOC	8-82	11-82	3
WCAP-8691	REV. 1 FUEL ROD BOW	7-79	12-82	41
WCAP-9485	SUPP. 1 PALADON 3.0	9-81	3-83	18
WCAP-10297	DROPPED ROD	1-82	3-83	14
WCAP-9863	ROD SWAP	7-82	5-83	10
WCAP-10021	REV. 1 WA Burnable Absorber	10-82	8-83	10
WCAP-8720	ADD. 1 PAD 3.3 (Transients)	9-79	6-82	33
MILLSTONE 2	BASIC SAFETY REPORT	3-80	2-82	23
	- PHYSICS	3-80	6-81	15
	- TRANSIENT	3-80	1-82	22
	- FUEL AND T/H	3-80	2-82	23

NRC REVIEW TIMES (cont'd)

<u>REPORT</u>	<u>SUBJECT</u>	<u>SUBMITTAL</u>	<u>SER</u>	<u>MONTHS</u>
WCAP-8762	WRB-1 15X15/14X14 OFA	11-83	6-84	7
WCAP-8218	FUEL DENSIFICATION	10-73	3-74	5
WCAP-8377	REVISED CLAD FLATTENING	7-74	2-75	7
WCAP-10106	BWR NUCLEAR CODES	6-82	9-85	39
WCAP-10125	HIGH BURNUP	7-82	10-85	39
NEDE-22148	GE HIGH BURNUP	6-82	8-85	38
WCAP-10444	ADD. 1 IFBA OTHER ARRAYS	12-85	3-86	3
WCAP-10107	BWR T/H CODE	6-82	10-85	40
	BASH	6-84*	6-86 (EST.)	24
	BART	1-80	12-83	47
	NOTRUMP	12-82	5-85	29
	UHI MODEL	3-75	3-78	36
	N-1 LOOP	2-77	2-79	24
	CE MODEL	8-80	10-82	26
	LOFTRAN	7-81**	6-83	23

* Submitted 7-83

**Submitted 10-72

	SUBMITTAL DATE	REVIEW TIME MONTHS ↓	NRC SER DATE ↓	SMOOTHED SER DATES (S) ↓	Δ MONTHS. TO 3-89 (S) ↓
NUCLEAR QUALIFICATION	6-86				
8X8 CPR CORRELATION	6-86				
CHANNEL STABILITY	6-86				
BISON QUALIFICATION	8-86				
QUAD+ CORRELATION	9-86				
LOCA METHODOLOGY	9-86				
RAMONA QUALIFICATION	1-87				
LOCA SENSITIVITY	6-87				
BWR PAD	6-87				
LOCA CALCULATION	6-87				
BSR	6-87				

	SUBMITTAL DATE	REVIEW TIME MONTHS ↓	NRC SER DATE ↓	SMOOTHED SER DATES (S) ↓	Δ MONTHS. TO 3-89 (S) ↓
NUCLEAR QUALIFICATION	6-86				
8X8 CPR CORRELATION	6-86				
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BISON QUALIFICATION	8-86				
QUAD+ CORRELATION	9-86				
LOCA METHODOLOGY	9-86				
RAMONA QUALIFICATION	1-87				
LOCA SENSITIVITY	6-87				
BWR PAD	6-87				
LOCA CALCULATION	6-87				
BSR	6-87				

SERS: 2 in 3-89, 3 in 1-89, 2 in 11-88, 1 in 9-88 and 3 in 7-88

	SUBMITTAL		REVIEW TIME		NRC SER		SMOOTHED SER		Δ MONTHS	
	DATE		MONTHS ↓		DATE ↓		DATES (S) ↓		TO 3-89 (S) ↓	
NUCLEAR QUALIFICATION	6-86		18		12-87		7-88		7	
8X8 CPR CORRELATION	6-86		18		12-87		7-88		7	
CHANNEL STABILITY	6-86		18		12-87		7-88		7	
BISON QUALIFICATION	8-86		24		8-88		11-88		3	
QUAD+ CORRELATION	9-86		18		3-88		9-88		6	
LOCA METHODOLOGY	9-86		24		9-88		1-89		4	
RAMONA QUALIFICATION	1-87		18		7-88		11-88		4	
LOCA SENSITIVITY	6-87		15		9-88		1-89		4	
BWR PAD	6-87		24		6-89		3-89		-3	
LOCA CALCULATION	6-87		15		9-88		1-89		4	
BSR	6-87		24		6-89		3-89		-3	
SERS: 2 in 3-89 3 in 1-89 2 in 11-88 1 in 9-88 and 3 in 7-88										

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ATTENDANCE LIST FOR
APRIL 24, 1986, MEETING ON
W FUEL IN BWRS

<u>Name</u>	<u>Organization</u>
Mary Haughey	NRC/DBL/BWD-3
Tim Collins	NRC/DBL/RSB
Wayne Hodges	NRC/DBL/RSB
Allan McFarlane	Westinghouse Nuclear Fuel Div.
David K. Greene	Niagara Mohawk
Doug Bevard	W Nuclear Technology Systems Div.
Donald Hill	Niagara Mohawk Licensing
Larry Phillips	NRC/DBL/RSB

Observer

Carlene Pindzia	SERCH Licensing/Bechtel Power
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