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 RECIP. NAME: RECIPIENT AFFILIATION
 ROSENSTEIN, L. Light Water Reactors Branch 4

SUBJECT: Discusses 791003 meeting w/C Anderson re Mark II pool dynamic load tasks. Meeting on 791207 will provide addl info on resolutions for Safety relief valve load definitions. Summary of plant unique areas included.

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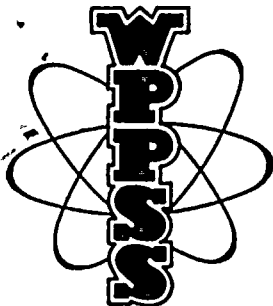
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MR

THE
OFFICE
OF THE
ATTORNEY
GENERAL
OF THE
STATE OF
NEW YORK
IN SENATE
JANUARY 10, 1910
REPORT
ON THE
ADMINISTRATION
OF THE
OFFICE
DURING
THE
YEAR
1909
BY
JAMES C. HARRIS
ATTORNEY GENERAL

OFFICE
OF THE
ATTORNEY
GENERAL
OF THE
STATE OF
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JANUARY 10, 1910



Washington Public Power Supply System
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G02-79-209

November 28, 1979

Docket No. 50-397

Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Mr. L. Rubenstein, Chief
Branch No. 4
Division of Project Management

Subject: WPPSS NUCLEAR PROJECT NO. 2
MARK II POOL DYNAMIC LOADS--WNP-2

Reference: WPPSS letter, G02-79-195, DL Renberger to
L. Rubenstein, same subject, dated October 25, 1979

Dear Mr. Rubenstein:

At the request of Mr. D. Lynch of your staff, we are pleased to amplify our letter, referenced above, to cover the details of our recent meeting with Mr. Clifford Anderson concerning pool dynamic load tasks which are outside of the generic Mark II program.

We met with Mr. Anderson on Wednesday, October 3, 1979, primarily to apprise your staff of the approach we are taking to define the Safety Relief Valve (SRV) load based upon a review of the Mark II Caorso test data. We also took that opportunity to provide you with copies of Revision 2 of the WNP-2 Design Assessment Report (DAR) wherein reference was made to load definition issues requiring further resolution and we provided a schedule of our anticipated documentation on these issues. We intend to provide more information, particularly on the progress of the SRV load definition, at a future meeting which we are arranging with you to take place on Friday, December 7, 1979.

Specifically, in Table 1.1-1 of the WNP-2 DAR, Revision 2, we have indicated our position with respect to every item referenced in NUREG-0487. This information was condensed into a single page at the October 3 presentation and showed that a few items require some degree of plant-unique review. The limited cases where WNP-2 has adopted a unique approach have been occasioned by the need to develop a timely basis for design analysis. In particular, a chugging load definition is currently

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not available in a generic form and adherence to the plant construction schedule required immediate attention to this load. Furthermore, the adoption of the X-quencher by WNP-2 was made before other plants had made their own respective choices and at a time when the X-quencher was, in fact, the generic device being studied by the Mark II Owners Group. The X-quencher has been the subject of two in-plant tests, Tokai and Caorso. A summary of plant-unique areas is presented below:

<u>NUREG-0487 Item Number</u>	<u>Subject/Load</u>	<u>Comments</u>
I.B.3	Pool Swell Impact Load	For small structures and grating see WNP-2 DAR methods.
I.C.2	Submerged Boundary Steam Condensation Loads: Chugging	B&R Chugging load definition see reports of 4/13/79 and 6/15/79
II.B	SRV Air Clearing Loads	X-quencher loads to be presented in WNP-2 DAR
III.B	Air Bubble Drag Loads (submerged structures)	Expect final agreed upon load definition to be based on a combination of resolution of certain aspects now being dis- cussed generically and plant unique methods given in WNP-2 DAR
III.C	Steam Condensation Loads	Specified as plant-unique in NUREG-0487. Generic source as given in I.C.2 used. See WNP-2 DAR

A copy of this summary is appended along with a general schedule for the major topics showing anticipated times for submission of remaining documentation.

Very truly yours,

D L Renberger

D. L. RENBERGER
Assistant Director - Technology

DLR:PDH/OKE:cph

cc: C. Anderson, NRC
D. Lynch, NRC
D. Baker, Burns & Roe, N.Y.
NS Reynodls, Debevoise & Liberman
ND Lewis, EFSEC, Olympia
WNP-2 Files

KEY:

[GENERIC REVIEW REQUIRED]

[PLANT UNIQUE REVIEW REQUIRED]

NRC ITEM NUMBER
(FROM LER TABLE IV-1)

SUBJECT/LOAD

ADDITIONAL NCR REVIEW REQUIRED

LOCA

I.A SUBMERGED BOUNDARY VENT CLEARING LOAD

I.B.1 POOL SWELL ANALYTICAL MODEL

I.B.2 SUBMERGED BOUNDARY POOL SWELL LOAD

I.B.3 POOL SWELL IMPACT LOAD

I.B.4 WETWELL AIR COMPRESSION

I.B.5 ASYMMETRIC LOAD

I.C.1 DOWNCOMER LATERAL LOAD

I.C.2 SUBMERGED BOUNDARY STEAM : C.O.
CONDENSATION LOADS : CHUGGING

SRV

II-A POOL TEMPERATURE LIMITS

II-B AIR CLEARING LOADS

II-C.1 QUENCHER ARM LOADS

II-C.2 QUENCHER TIE DOWN LOADS

SUBMERGE STRUCTURES

III-A WATER JET LOADS: SRV JET
LOCA JET

III-B AIR BUDDLE DRAG LOADS

III-C STEAM CONDENSATION LOADS

LOAD COMBINATION/SRSS

1979						1980					
A	S	O	N	D		J	F	M	A	M	J

NRC CRITERIA GIVEN IN LER; NO ADDITIONAL NRC REVIEW FOR WNP-2 ANTICIPATED

NRC CRITERIA GIVEN IN LER; NO ADDITIONAL NRC REVIEW FOR WNP-2 ANTICIPATED

NRC CRITERIA GIVEN IN LER; NO ADDITIONAL NRC REVIEW FOR WNP-2 ANTICIPATED

[FOR SMALL STRUCTURES AND GRATING, SEE WNP-2 DAR METHODS]

NRC CRITERIA GIVEN IN LER; NO ADDITIONAL NRC REVIEW FOR WNP-2 ANTICIPATED

[COMPLETE GENERIC REVIEW OF MKII POSITION (10% - 20% ISSUE)]

[COMPLETE GENERIC REVIEW OF PRETECH LOAD DEFINITION]

NRC CRITERIA GIVEN IN LER; NO ADDITIONAL NRC REVIEW FOR WNP-2 ANTICIPATED

[B/R CHUGGING LOAD DEFINITION; SEE REPORTS OF APRIL 13 AND JUNE 13]

NRC CRITERIA GIVEN IN LER; NO ADDITIONAL NRC REVIEW FOR WNP-2 ANTICIPATED

[X-QUENCHER LOADS TO BE
PRESENTED IN WNP-2 DAR]

NRC CRITERIA GIVEN IN LER; NO ADDITIONAL NRC REVIEW FOR WNP-2 ANTICIPATED

NRC CRITERIA GIVEN IN LER; NO ADDITIONAL NRC REVIEW FOR WNP-2 ANTICIPATED

NRC CRITERIA GIVEN IN LER; NO ADDITIONAL NRC REVIEW FOR WNP-2 ANTICIPATED

[COMPLETE GENERIC REVIEW OF RING VORTEX MODEL]

[EXPECT FINAL AGREED UPON LOAD DEFINITION TO BE BASED ON A COMBINATION OF
RESOLUTION OF CERTAIN ASPECTS NOW BEING DISCUSSED GENERICALLY (INCLUDES ISSUES
OF DRAG COEFFICIENTS ETC. COMMON TO WATER JET AND STEAM CONDENSATION
LOADS) AND PLANT UNIQUE METHODS GIVEN IN WNP-2 DAR]

[SPECIFIED AS PLANT UNIQUE IN LER. GENERIC SOURCE AS GIVEN IN I-C-2 USED. SEE WNP-2 DAR]

[COMPLETE CURRENT REVIEW OF MARK II GENERIC ISSUES]

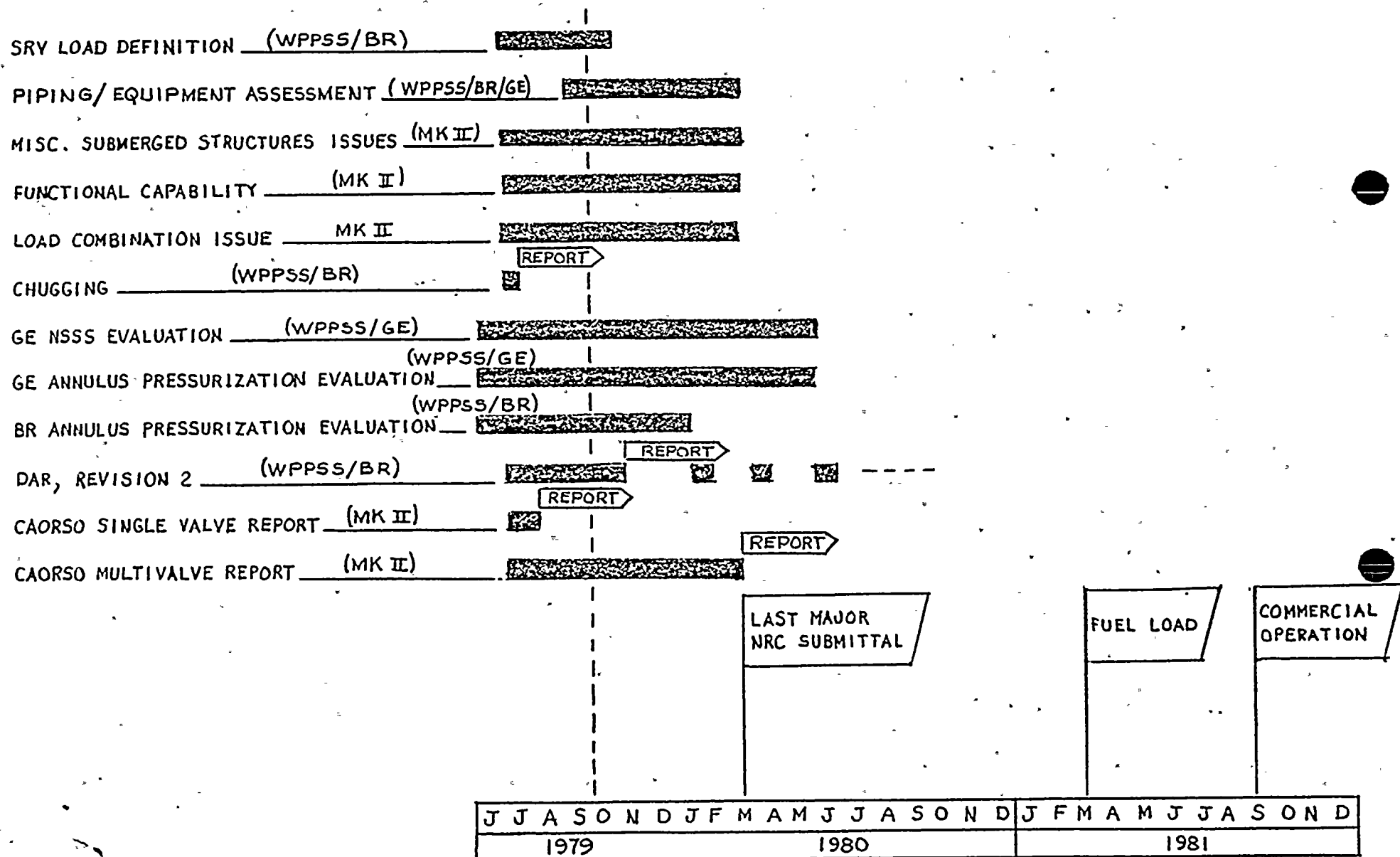


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602-79-209
November 28, 1979

WNP-2 CONTAINMENT PROGRAM GENERAL SCHEDULE



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