

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8210270013 DOC. DATE: 82/10/22 NOTARIZED: NO DOCKET #
 FACIL: 50-397 WPPSS Nuclear Project, Unit 2, Washington Public Powe 05000397
 AUTH. NAME AUTHOR AFFILIATION
 BOUCHEY, G.D. Washington Public Power Supply System
 RECIP. NAME RECIPIENT AFFILIATION
 DENTON, H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Forwards Revision 1 to "Plant Verification Rept," dtd
 Oct 1982.

DISTRIBUTION CODE: B001S COPIES RECEIVED: LTR 1 ENCL 6 SIZE: 2+501
 TITLE: Licensing Submittal; PSAR/FSAR Amdts & Related Correspondence

NOTES: Limited Dist.

RECIPIENT		COPIES		RECIPIENT		COPIES	
ID	CODE/NAME	LTTR	ENCL	ID	CODE/NAME	LTTR	ENCL
NRR/DL/ADL		1	0	NRR LB2 BC		1	0
NRR LB2 LA		1	0	AULUCK, R.	01	1	1
INTERNAL: ELD/HDS2		1		IE FILE		1	
IE/DEP EPDS	35	1		IE/DEP/EPLB	36	3	
NRR/DE/AEAB		1		NRR/DE/CEB	11	1	
NRR/DE/eqB	13	3		NRR/DE/GB	28	2	
NRR/DE/HGEB	30	2		NRR/DE/MEB	18	1	
NRR/DE/MTEB	17	1		NRR/DE/QAB	21	1	
NRR/DE/SAB	24	1		NRR/DE/SEB	25	1	
NRR/DHFS/HFEB	40	1		NRR/DHFS/LQB	32	1	
NRR/DHFS/OLB	34	1		NRR/DHFS/PTRB	20	1	
NRR/DSI/AEB	26	1		NRR/DSI/ASB	27	1	
NRR/DSI/CPB	10	1		NRR/DSI/CSB	09	1	
NRR/DSI/ETSB	12	1		NRR/DSI/ICSB	16	1	
NRR/DSI/PSB	19	1		NRR/DSI/RAB	22	1	
NRR/DSI/RSB	23	1		NRR/DST/LGB	33	1	
<u>REG FILE</u>	04	1	1	RGN5		2	
RM/DDAMI/MIB		1	0				
EXTERNAL: ACRS	41	6	0	BNL (AMDTS ONLY)		1	0
DMB/DSS (AMDTS)		1	0	FEMA-REP DIV	39	1	0
LPDR	03	1	1	NRC PDR	02	1	1
NSIC	05	1	1	NTIS		1	1

TOTAL NUMBER OF COPIES REQUIRED: LTTR 55 ENCL 49

[illegible]

1. The following information is being furnished to you for your information only. It is not intended to be used for any other purpose.

1015 "at 104 north 87 west 1 613" at 104 north 87 west 1 613

THE UNIVERSITY OF CHICAGO PRESS

[illegible]

Washington Public Power Supply System

P.O. Box 968 3000 George Washington Way Richland, Washington 99352 (509) 372-5000

Docket No. 50-397
G02-82-864
October 22, 1982

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

Dear Mr. Denton:

Subject: NUCLEAR PROJECT NO. 2 - VERIFICATION OF
DESIGN AND CONSTRUCTION ADEQUACY

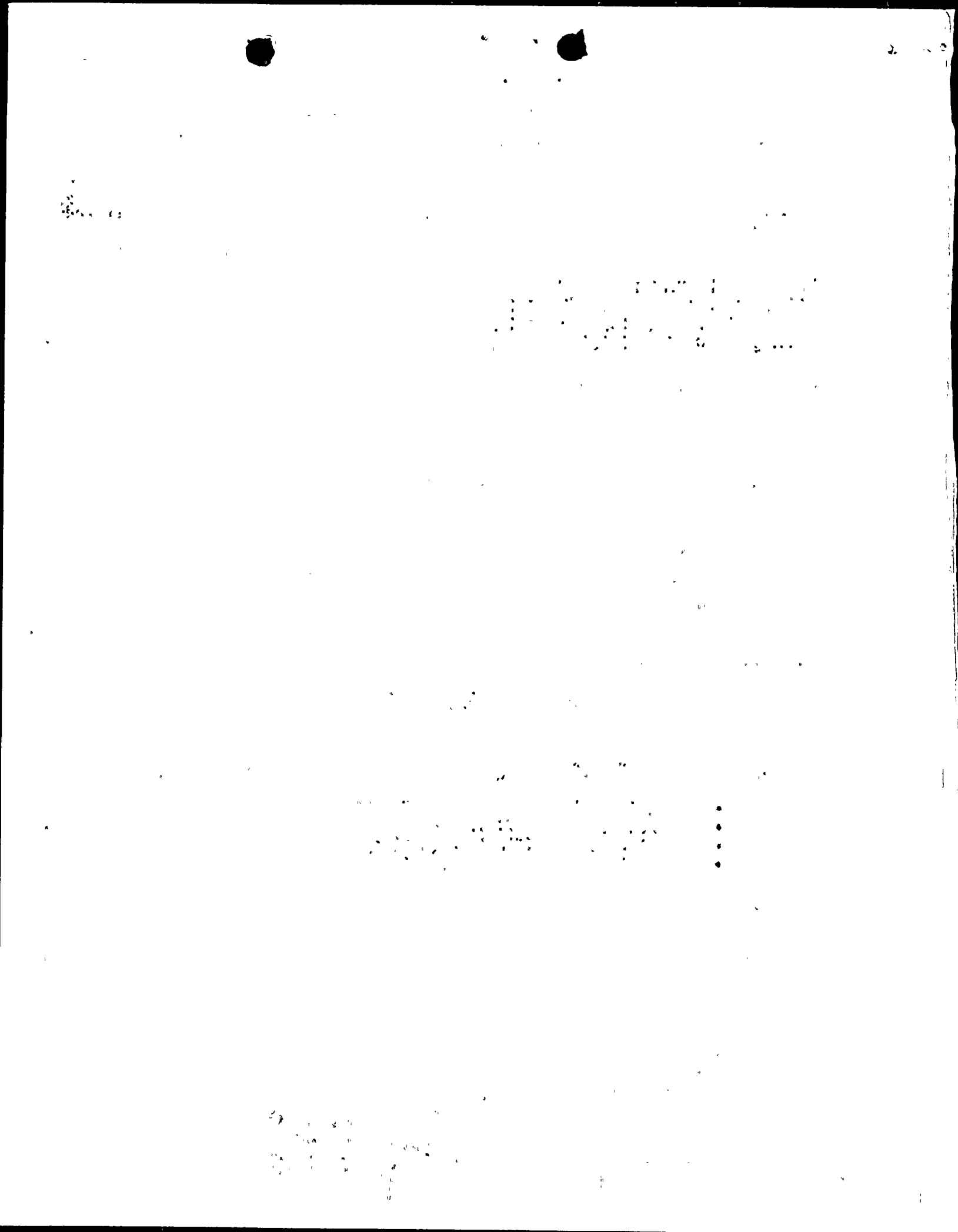
Enclosed is a copy of a document entitled "WNP-2 Plant Verification Report". This report is being provided for your use preparatory to a meeting between the Supply System and the NRC staff on this subject scheduled for November 10, 1982, in Bethesda, Maryland. The original issue of this report was provided informally to R. Auluck of your staff and to NRC Region V. Also, the Region V staff was briefed on our plant verification plans in detail at a meeting in Walnut Creek on June 25, 1982.

The WNP-2 Plant Verification Report presents in a single document the basis for confidence that WNP-2 has been designed and will be constructed to meet applicable Regulatory requirements and Safety Analysis Report commitments. The plant verification programs described in this report are part of a broader "WNP-2 Plant Completion Plan". The Plant Completion Plan covers:

- a) Plant Verification
 - requirements and design verification
 - construction verification
 - performance verification (testing)
 - operating envelope verification
- b) Construction Completion
- c) Organization Readiness
- d) Operational Readiness.

The Plant Completion Plan (which includes Plant Verification as an element) was first conceived as a response to the Supply System's Managing Director's request for a "...well documented basis for acceptance of plant completion, safety, and technical adequacy". This request, issued in January 1981, six months after he assumed

Boo 1/6 Limited Dist



H. R. Denton
Page 2
October 22, 1982
WNP-2 Verification of Design and Construction Adequacy

the Directorship, came during a one year construction suspension required to correct prior quality problems of several construction contractors. This program, when fully implemented, will provide the basis for certification by the Supply System Chief Executive of readiness to proceed with safe operation of WNP-2.

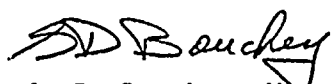
The Plant Verification Report describes the programs which were conducted or begun during the suspension to identify and correct deficiencies and re-establish an adequate quality level for completed work. It also describes the changes in management practices which the Supply System adopted to correct these early construction problems, including the employment of a more experienced construction management/systems completion contractor to assist in maintaining a high level of quality following construction restart in June 1981.

In addition to re-establishing the construction quality baseline for past work and describing methods for assuring that it will be continued to completion, the report also describes the bases for confidence in the design as developed by the architect-engineer and the nuclear steam supply system contractor. When both are complete, these design and construction verification activities would, under normal circumstances, be sufficient to demonstrate the technical adequacy of WNP-2.

However, in response to the Managing Director's request for an acceptance review, and noting the design quality problems encountered at Diablo Canyon and elsewhere, the Supply System has decided to take several additional steps which go beyond normal practice, and which address NRC's concerns for strengthening quality assurance for nuclear plants under construction. These include a reverification that the design requirements for all safety systems are complete and clearly documented and, by independent design reviews of three selected systems confirm that these requirements were correctly reflected in the detailed design documents used in construction. Any deficiencies noted in these reviews will be submitted to an independent "findings review committee" for evaluation and disposition. The Plant Verification Program and the implementation of several of its critical elements will be subjected to independent technical audit by an outside firm.

The Supply System believes that the Plant Verification Program described here will, when complete, provide confidence that WNP-2 is designed and constructed in accordance with committed requirements.

Very truly yours,



G. D. Bouchey, Manager
Nuclear Safety & Licensing

GDB/sm

Attachment cc: NS Reynolds TH Novak A Schwencer
 DG Eisenhut A Auluck RH Engelken w/a

27 11 1944
12 2 3

1. The first part of the report is a general statement of the purpose of the study.

2. The second part of the report is a description of the methods used in the study.

3. The third part of the report is a description of the results of the study.

4. The fourth part of the report is a discussion of the results of the study.

5. The fifth part of the report is a conclusion of the study.

6. The sixth part of the report is a list of references.

7. The seventh part of the report is a list of appendices.

8. The eighth part of the report is a list of figures.

9. The ninth part of the report is a list of tables.

10. The tenth part of the report is a list of footnotes.