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 SCHWENCER, A. Licensing Branch 2

SUBJECT: Forwards marked-up correct Table 1.2 of SER (NUREG-0892) re comparison of facility principal design features to similar facilities, per ACRS Subcommittee on WNP-2 meeting.

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## Washington Public Power Supply System

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September 30, 1982  
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Docket No. 50-397

Mr. A. Schwencer, Chief  
Licensing Branch No. 2  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Dear Mr. Schwencer:

Subject: NUCLEAR PROJECT NO. 2  
SAFETY EVALUATION REPORT,  
NUREG-0892, CORRECTIONS

At the recently conducted Advisory Committee on Reactor Safeguards Subcommittee meeting on WNP-2, Table 1.2 of the Safety Evaluation Report was questioned as to accuracy. The Supply System has reviewed the table and the attached mark-up is provided to correct the SER.

Should there be any further questions, please contact Mr. R. M. Nelson, Manager, WNP-2 Project Licensing.

Very truly yours,



G. D. Bouchey  
Manager, Nuclear Safety and Licensing

PLP/jca  
Attachment

cc: R Auluck - NRC  
WS Chin - BPA  
R Feil - NRC Site

Boo!

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Table 1.2 Comparison of principal design features  
of WNP-2 and similar facilities

Design Feature	WNP-2	Zimmer	LaSalle	Hatch Unit 2
Rated thermal power, MW	3323	2436	3293	2436
Gross electrical output, MW	1150	883	1122	822
Main steam flow rate, lb/hr	<del>14,295,000</del> 14,296,000	10,477,000	14,166,000	10,470,000
Total reactor core flow rate, lb/hr	108,500,000	78,500,000	106,500,000	77,000,000
System pressure nominal in steam dome, psi	1020	1020	1020	1020
Fuel lattice	8x8	8x8	8x8	8x8
Number of fuel assemblies	764	560	764	560
Number of fuel per fuel assembly	<del>63</del> 62	63	62	62
Number of control rods	185	137	185	137
Reactor vessel inside diameter, in.	251	218	251	218
Reactor vessel inside height, ft	72.9	69.3	72.9	69.3
Reactor vessel design pressure, psig	1250	1250	1250	1250
Reactor vessel wall thickness, in.	6.75	5.375	6.75	5.531
Number of recirculation loops	2	2	2	2



Table 1.2 (continued)

Design Feature	WNP-2	Zimmer	LaSalle.	Hatch Unit 2
Recirculation loop inside diameter, in.	24	20	24	28
Recirculation pump flow rate, gpm	47,250	33,880	47,250	45,200
Number of jet pumps	20	20	20	20
Number of high pressure coolant injection (core spray) loops	1	1	1	1
Number of low pressure coolant injection pumps	3	3	3	4
Number of low pressure core spray loops	1	1	1	2
Maximum heat flux, Btu/ft <sup>2</sup> /hr	<sup>361,010</sup> <del>428,360</del>	354,000	361,000	361,591
Average heat flux Btu/ft <sup>2</sup> /hr	<sup>163,234</sup> <del>145,384</del>	143,900	145,208	145,528
Maximum power per fuel rod length, kw/ft	13.4	13.4	13.4	13.4
Maximum fuel temperature, °F	3435	3325	3325	3435
Minimum critical power ratio	1.24	1.21	1.24	1.30
Total peaking factor	<del>2.51</del> 2.49	2.43	2.25	2.49

