

# REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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 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  
 SCHWENCER, A. Licensing Branch 2

SUBJECT: Forwards table & sketches providing info requested by NRC  
 that pool temp monitoring sys meets requirements of  
 NUREG-0487 re location of temp sensors & electrical div  
 redundancy.

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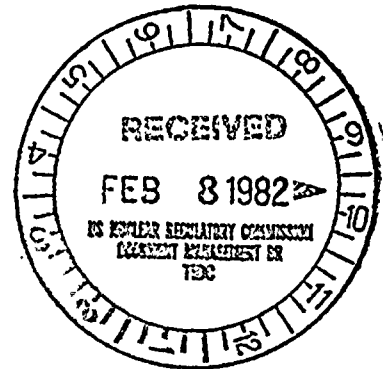
## Washington Public Power Supply System

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

Docket No. 50-397

February 1, 1982  
G02-82-129

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



Dear Mr. Schwencer:

Subject: NUCLEAR PROJECT NO. 2  
SUPPRESSION POOL TEMPERATURE MONITORING SYSTEM

Reference: G02-81-524, dated December 15, 1981

The Reference letter advised you we will perform an in-plant SRV test to measure local and bulk suppression pool temperatures, using the existing suppression pool temperature monitoring system. Subsequently, Mr. Eltawila of the Containment Systems Branch requested confirmation that the pool temperature monitoring system meets the requirements of NUREG 0487 with respect to location of temperature sensors and electrical division redundancy. The attached Table and sketches provide the information requested. The temperature sensors are mounted on the face of the horizontal tee stiffeners, at eight azimuthal locations spaced approximately 45° apart around the circumference of the pool. At each azimuthal location there are two sensors at elevation 465'-5 3/4" (near the pool surface), and one sensor at elevation 447'-10 1/4" (1'-1 3/4" below the quencher centerline elevation). At a given

Bool  
S11



Mr. A. Schwencer  
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azimuthal location, each pair of temperature sensors at elevation 465'-5 3/4" consists of an electrical division 1 and an electrical division 2 sensor. At elevation 447'-10 1/4", the temperature sensors alternate between electrical division 1 and electrical division 2 around the circumference of the suppression pool.

Very truly yours,



G. D. Bouchey  
Deputy Director, Safety & Security

EAF:kjf

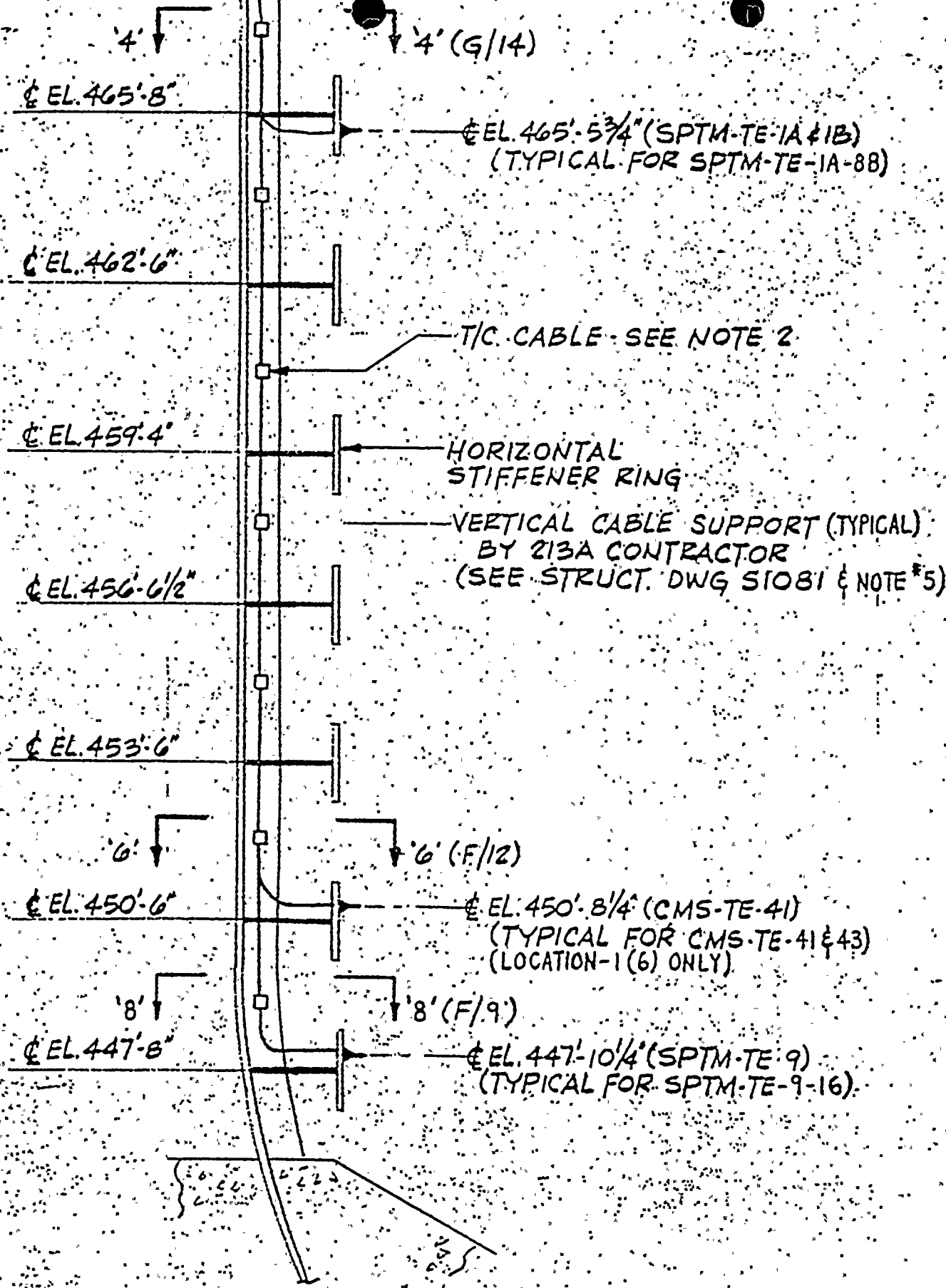
Attachments:

cc: R. Auluck - NRC  
WS Chin - BPA  
AI Cygelman - B&R 954W  
R. Feil - NRC Site  
JA Forrest - B&R RO  
NS Lewis - EFSEC, Olympia  
FA MacLean - General Electric  
S. Smith - General Electric  
RE Snaith - B&R NY  
JJ Verderber - B&R NY  
F. Eltawila - NRC



SUPPRESSION POOL THERMOCOUPLE LOCATION SCHEDULE					
T/C DESIGNATION	LOCATION #	ELEVATION	CABLE NO	PENETRATION	ROUTE TO TERM. BOX
SPTM-TE-1A	(1)	EL 465' 5 3/4"	1 CACS-211	X107A	TB-C560
SPTM-TE-2A	(2)		1 CACS-301	X107A	TB-C560
SPTM-TE-1B	(1)		2 CACS-261	X107B	TB-C561
SPTM-TE-2B	(2)		2 CACS-311	X107B	TB-C561
SPTM-TE-3A	(3)		1 CACS-212	X107A	TB-C560
SPTM-TE-4A	(4)		1 CACS-303	X107A	TB-C560
SPTM-TE-3B	(3)		2 CACS-262	X107B	TB-C561
SPTM-TE-4B	(4)		2 CACS-313	X107B	TB-C561
SPTM-TE-5A	(5)		1 CACS-213	X107A	TB-C560
SPTM-TE-6A	(6)		1 CACS-302	X107A	TB-C560
SPTM-TE-5B	(5)		2 CACS-263	X107B	TB-C561
SPTM-TE-6B	(6)		2 CACS-312	X107B	TB-C561
SPTM-TE-7A	(7)		1 CACS-214	X107A	TB-C560
SPTM-TE-8A	(8)		1 CACS-304	X107A	TB-C560
SPTM-TE-7B	(7)		2 CACS-264	X107B	TB-C561
SPTM-TE-8B	(8)		2 CACS-314	X107B	TB-C561
SPTM-TE-9	(1)	EL 447' 10 1/4"	1 CACS-215	X107A	TB-C560
SPTM-TE-10	(2)		2 CACS-265	X107B	TB-C561
SPTM-TE-11	(3)		1 CACS-216	X107A	TB-C560
SPTM-TE-12	(4)		2 CACS-266	X107B	TB-C561
SPTM-TE-13	(5)		1 CACS-217	X107A	TB-C560
SPTM-TE-14	(6)		2 CACS-267	X107B	TB-C561
SPTM-TE-15	(7)		1 CACS-218	X107A	TB-C560
SPTM-TE-16	(8)		2 CACS-268	X107B	TB-C561

1/8" CABLES UP TO TERMINAL BOXES  
TB-C560 & TB-C561 VIA HORIZONTAL SUPPORTS.



R.  
F.  
B.  
TE  
W

SECT. 3-3 (DWG E702-SH.2, F/8)

(TYPICAL FOR VERTICAL TEE STIFFENERS-LOCATION 1-8)





# VERTICAL TEE STIFFENER

SEE NOTE 2

5'

VERTICAL CABLE SUPPORTS  
BY 213A CONTRACTOR

SPTM-TE-(1-8) A

SPTM-TE-(1-8) A-1

SPTM-TE-(1-8) A-2

18"

18"

SPTM-TE-(1-8) B

SPTM-TE-(1-8) B-2

SPTM-TE-(1-8) B-1

5' (G/12)

## SECT. 4-4' (D-E/14)

VERTICAL TEE STIFFENERS-LOC. 1-8

N.T.S.

# VERTICAL 'T' STIFFENER

VERTICAL CABLE SUPPORTS  
BY 213A CONTRACTOR

SEE NOTE 2

SPTM-TE-(9-16)-1

SPTM-TE-(9-16)-2

SPTM-TE-9-16

## SECT. 8-8' (C/14)

VERTICAL TEE STIFFENER-LOC. 1-8

N.T.S.