

SIEMENS

June 14, 1994

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

Subject: Additional information to support the NRC Document No. 99901277

Reference: Document No. 99901277 (NRC inspection conducted May 23 - 27, 1994)

Based upon a recent inspection conducted at Siemens Power Corporation's (SPC), Chattanooga facility, the Vendor Inspection Branch raised several concerns regarding steam generator repair activities performed by Universal Testing Laboratories, Inc. (UTL), a former subsidiary of SPC. One concern related to the disposition of a Non-conformance Report (NCR) in which ASME material was accepted on the basis of Liquid Penetrant (PT) examination only rather than a combination of Ultrasonic (UT) and PT examination as is required by ASME code. The initial information supplied to the inspection team in support of the NCR was incomplete. A Radiographic (RT) examination was performed on the material to supplement the PT examination in order to satisfy the volumetric requirement of ASME Section III, Division 1, NB-2541(a). This section states in part, "...configurations which do not yield meaningful examination results by ultrasonic methods, shall be examined by radiographic methods..." The other concern related to the potential that S/G plugs from the inadequately tested ASME material were also supplied to the Trojan Nuclear Power Plant. Additional information is provided to confirm that plugs supplied to Trojan were from another material lot (different heat number).

The plugs in question (heat number NX 6441 HK - transfer number 51) were shipped to Florida Power & Light Co. - Turkey Point Nuclear Station, to be used in the repair and replacement of failed Westinghouse steam generator plugs. Prior to installation the plugs were examined by the radiographic method as mentioned above. This RT was performed at the Turkey Point site by another FPL contractor and resulted in "no indications revealed" as indicated on the RT Inspection Reports (Attachment 1 of this letter).

An understanding of SPC's plug serialized numbering system is necessary in order to verify traceability to the required material specification documents. The following brief explanation should provide sufficient information for the purpose of this inspection:

- (a) The first two numbers of the plug serial number are the last two numbers of the drawing - example: drawing 85826 Plug number 26.4.10
- (b) The second number identifies the type of plug from the specified drawing - example: Plug number 26.4.10
Per the drawing is designated a Westinghouse mechanical plug repair type

2100066

Siemens Power Corporation

94062202B9 940614
PDR QA999 EMVEXXN
99901277 PDR

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JKD9

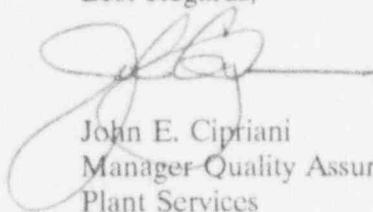
- (c) The last number is the unique identifier for that particular plug - example: Plug number 26.4.10
- (d) Identified on the plug but not part of the serial number is the heat transfer number.

The seven (7) welded plugs which were installed at Turkey Point Unit 3 were per Siemens AG - KWU Group Drawing U4 441E-33-85826, Revision 0, "7/8 inch Welding Plug", type 4. The plug serial numbers installed were: 26.4.8, 26.4.10, 26.4.17, 26.4.18, 26.4.21, 26.4.27 and 26.4.38.

The question raised concerning the plugs installed at Trojan Nuclear Station can be addressed simply by confirming that the plugs did not come from the heat number NX 6441 HK as is annotated on attachment 2 of this letter. Provided as attachment 2 is a copy of the original shipping notice with the serial numbers, drawing numbers, heat numbers and transfer numbers for the plugs sold to Babcock & Wilcox Nuclear Services (BWNS) for installation at Trojan.

Should there be any further questions regarding this subject matter please contact me at (615) 499-1717.

Best Regards,



John E. Cipriani
Manager-Quality Assurance
Plant Services

JEC:RLS

Attachments

cc: D. Perry - SPC
C. Powers - SPC
M. Tagliamonte - SPC

Chief Vendor Inspection Branch
Division of Reactor Inspection & Licensee Performance
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Attachment 1

NRC DOCUMENT NO. 99901277

Page 1 of 6

RADIOGRAPHIC INSPECTION REPORT (TS 9.3)											
Project Turkey Point E 3				BOARING NO. 85826				PS N/A			
SYSTEM S16-TYPE PEGAS				SEE STATION				EXPOSURE NUMBER 7			
MATERIAL TYPE INCO 602				THICKNESS RANGE 0.125				POINT: OPEN ROOT <input type="checkbox"/> INSERT <input type="checkbox"/> BACKING <input checked="" type="checkbox"/> N/A			
NO. OF EXPOSURES 1				DIA OR LENGTH 12"				NRC STD: PARTIAL <input type="checkbox"/> FINAL <input checked="" type="checkbox"/> BEFORE <input type="checkbox"/> AFTER <input type="checkbox"/> EXCAVATED AREA <input type="checkbox"/> OTHER <input type="checkbox"/>			
SOURCE: IR 1874 CR. NO.: 8951 CUSEC: 0 CIVIN: R 660				EXPOSURE SIZE: .15"				PENETRATOR: TYPE S16 <input type="checkbox"/> N/A <input type="checkbox"/> OTHER <input type="checkbox"/> PENSIZE: 10 MATERIAL			
FILM TYPE: EK-1000 SPEED: D-7 LOAD: QUAD				SCREEN: PB <input type="checkbox"/> OTHER <input type="checkbox"/>				PER PLACEMENT: SOURCE SIDE <input type="checkbox"/> FILM SIDE <input type="checkbox"/>			
SURFACE CONDITION AS WELDED <input type="checkbox"/> FLAT TOPPED <input type="checkbox"/> GROUND SMOOTH <input type="checkbox"/>				LOCATION MARKER: SOURCE SIDE <input type="checkbox"/> FILM SIDE <input type="checkbox"/> AT 7/16" SPACING & NO. AT 7/16" INCHES INTERVALS							
RADIOGRAPHER: CERT LEVEL: DATE: INITIAL: Dan Hobbs II 3/13/90 DHZ				REQUIRED SENSITIVITY: 27 <input type="checkbox"/> 47 <input type="checkbox"/>							
STATIONS 8/8				VIEWING TECHNIQUE: SINGLE FILM <input checked="" type="checkbox"/> COMPOSITE FILM <input type="checkbox"/>				EXAMINATION: SINGLE WALL <input type="checkbox"/> DOUBLE WALL <input type="checkbox"/>			
9											
10											
11											
12											
13											
NOTE: Above column is indications were detected											
STC NO. TPA - PTP-4302 ONE 73400 TPA - PTP-5222 ONE 49250				EVALUATED BY: LEVEL: DATE: INITIAL: JL Hobbs II 3/13/90 TS 9.3 LEVEL: CERT: INITIAL:							
THIS REPORT IS FOR: NRC NO. 80 40054				REMARKS: APPROVED BY: RDCS TITLE							
INDEPENDENT: N/A											
DATE:											
EXPIRE:											
OTHER:											

RADIOGRAPHIC INSPECTION REPORT (IS 9.3)									
Project Turkey Point 13		DRAWING NO. 858A4		DR NUMBER 17-30-02552					
S16 Tube Flues		WELD NO. 380 STATION		PEN. NO. 17-30-02552					
1	T.D. 93	I	Weld No.	25	2501				
MATERIAL TYPE		THICKNESS RANGE (INCHES)		JOINT: OPEN ROOT <input type="checkbox"/> INSERT <input type="checkbox"/> BACKING <input type="checkbox"/>					
INCON. 690		1/2		WELD STG. PARTIAL <input type="checkbox"/> FINAL <input checked="" type="checkbox"/> BEFORE <input type="checkbox"/> AFTER <input type="checkbox"/>					
NO. OF EXPOSURES		EXCAVATED AREA <input type="checkbox"/> OTHER <input type="checkbox"/>		PENETRATOR: IN SIDE <input type="checkbox"/> OUT SIDE <input type="checkbox"/> OTHER <input type="checkbox"/>					
1		MANUFACTURER: 300-MCE		WELD SIZE: 10					
SOURCE: 181720		MATERIAL: 3/8		MATERIAL: 3/8					
SR. NO.: 951		SOURCE SPOT SIZE: 15-9		SCREEN: 10 <input type="checkbox"/> OTHER <input type="checkbox"/>					
CIGGED: <input type="checkbox"/>		MANUFACTURER: 300-MCE		SCREEN THICKNESS: FRONT: .06 BACK: .10					
CINNING: 210		MANUFACTURER: 300-MCE		LOCATION MARKER: SOURCE SIDE <input type="checkbox"/> EXCAVATE <input type="checkbox"/>					
FILM: TYPE E6000, 600 ft. - LOAD Quad		AT 10' SPACING AND AT 200' INCREMENTS		RECORDED SENSITIVITY: ET <input type="checkbox"/> AT <input checked="" type="checkbox"/>					
SURFACE CONDITION: WA		AS WELDED <input type="checkbox"/> FLAT TORPEDO <input type="checkbox"/> GROUND SMOOTH <input type="checkbox"/>		VIEWING TECHNIQUE: SINGLE FILM <input type="checkbox"/> COMPOSITE FILM <input type="checkbox"/>					
RADIOGRAPHER: J.R. Lembert II		CERT LEVEL: 3-13-93 DATE: INITIAL: J.R.		EXAMINATION: SINGLE HALL <input type="checkbox"/> DOUBLE HALL <input checked="" type="checkbox"/>					
STATIONS	PROJECTION	SEED	LEADSHIELD	EXPOSURE	EXPOSURE				
3H									
0°									
8									
9									
10									
11									
12									
13									
Notes: Placement of lead shadings were horizontal									
STATE NO.		EVALUATED BY:		LEVEL: DATE: INITIAL:					
17-30-02552-016 2-20-93		J.R. Lembert II		3-13-93 R					
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OTHER: 300-MCE									
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NCR 90-N0054

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IR N0054
17-90-0054

PROJECT	PTN - 3
DOC	89-580
REV.	2

DRAWING SETUP NUMBER

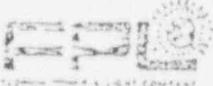
7

RADIOGRAPHIC INSPECTION REPORT
(TS 9.3)

PTN - 3	DRAWING NO.	85826	REV.	2
SIG TUBE PEELS	WELDING:	SEE STATIONS	N/A	
REK TECH CAT	APPENDIX ACCEPT STA			
1 F.S.-9.3 I ASME II				
MATERIAL TYPE	THICKNESS RANGE	DIAG LENGTH		
460402 690	.125	1 1/2"		
NO EXPOSURES	NO FILM JOINTS	REF NARAF		
1	4			
SOURCE: IR 192 50	CD-40	X-RAY ONLY		
SH. NO.: 8451	SOURCE SPOT SIZE: .159			
880	NAMIN N/A	STO: 20"		
ALFA				
FLM TYPE: GELATIN SPEED: D-7 LOAD: QUAD				
FLM COND: FLAT TOPPED	GROUND SMOOTH			
AS WELDED	CERT LEVEL	DATE	INITIAL	
=4 total 3/13/90 DTH				

STATION	FUGITIVE	FLAG	CRACK	LACK OF POSITION	UNTOPIKE EROSION	CRATER	PITCHMARK	UNDERCUT	BURST	TAHOO	UNPOSED	INSERT	PUNDSEN	SURFACE INDICATION	REC'D.	FILM	ANTIFOG	WHITE DENSITY	FILM DENSITY	SUSCEPTIBILITY	ACCEPT	REJECT	REMARKS
A																							
B																							
C																							
D																							
E																							
F																							
G																							
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EVALUATED BY:	LEVEL:	DATE:	INITIAL:
<i>J. L. Foster</i>	3/13/90	<i>GL</i>	
RADIOGRAPHER: LEVEL DATE			
REMARKS	INITIAL	SIGNATURE	DATE
<i>None</i>	<i>None</i>	<i>None</i>	<i>None</i>



RADIOGRAPHIC INSPECTION REPORT
(IS 9.3)

RADIOGRAPHIC INSPECTION REPORT (IS 9.3)										NCR 90-NC054 Page 28 of 29 17-70-0553											
UNIT:		Project Turkey Point # 3		DRAWING NO.		85826		PS		FRT.	ITEM										
SYSTEM:		5/16 TUBE PLUGS		HELD NO.		SEE STATIONS		EXPOSURE SETUP NUMBER		7											
OR NEW TECH.		CAT.	APPENDIX/ACCEPT. STD.				JOINT: OPEN ROOT <input type="checkbox"/> INSERT <input type="checkbox"/> BACKING <input type="checkbox"/> VIA <input type="checkbox"/>		MFG. STG: PARTIAL <input type="checkbox"/> FINAL <input checked="" type="checkbox"/> BEFORE <input type="checkbox"/> AFTER <input type="checkbox"/>		PROJECT										
MATERIAL TYPE		THICKNESS RANGE		DIA OR LENGTH			EXCAVATED AREA <input type="checkbox"/> OTHER <input type="checkbox"/>		PENETRAMETER TYPE <input type="checkbox"/> 1A <input checked="" type="checkbox"/> 1B <input type="checkbox"/> 1C <input type="checkbox"/> 1D <input type="checkbox"/> OTHER <input type="checkbox"/>		- 3 PG 2 OF 3										
INCHES		.125		1 1/2 "			PEN. SIZE: <input type="checkbox"/> 10 <input type="checkbox"/> MATERIAL		PEN. PLACEMENT: SOURCE SIDE <input type="checkbox"/> FILM SIDE <input type="checkbox"/>		50-450 2 1/2										
NO. OF EXPOSURES		NO. FILM/JOINTS		REF NCR #				SHIM: MATERIAL <input type="checkbox"/> .5/8 <input type="checkbox"/> THICKNESS: .03/.25/.50 IN		SOURCE SIDE <input type="checkbox"/> FILM SIDE <input type="checkbox"/>		DAY									
1		4		90-N0054				SCREENS: <input type="checkbox"/> OTHER <input type="checkbox"/>		SCREEN THICKNESS: FRONT <input type="checkbox"/> BACK <input type="checkbox"/>		.010									
SOURCE: 121913		CO-60 <input type="checkbox"/> X-RAY CHV						LOCATION MARKER: SOURCE SIDE <input type="checkbox"/> FILM SIDE <input type="checkbox"/>													
SR. NO.: 8951		SOURCE SPOT SIZE: .154						AT $\frac{3}{16}$ " SPACING & NO. AT $\frac{3}{16}$ " INCHES INTERVALS													
C/SPEC. <input type="checkbox"/>		C/SPEC. <input type="checkbox"/>																			
C/MIN. 880		MAX/MIN. SFDR 20"																			
FILM: TYPE <input type="checkbox"/> SPEED D-2 LOAD QUAD																					
SURFACE CONDITION		N/A																			
AS WELDED <input type="checkbox"/>		FLATTOPED <input type="checkbox"/> GROUND SMOOTH <input type="checkbox"/>																			
RADIOGRAPHER:		CERT LEVEL	DATE	INITIAL			REQUIRED SENSITIVITY:		ST <input type="checkbox"/> AT <input type="checkbox"/>												
							VIEWING TECHNIQUE:		EXAMINATION												
							SINGLE FILM <input type="checkbox"/> COMPOSITE FILM <input type="checkbox"/>		SINGLE WALL <input type="checkbox"/> DOUBLE WALL <input type="checkbox"/>												
David Lottola II		3/13/80		OHC																	
STATIONS:		POROSITY	SLAG	CRACK	LACK OF FUSION	INCOMPLETE FUSION	CREATR. PITS/CRASH	UNDERCUT	BURN THRU	UNPULTED INSERT	TUNGSTEN	SURFACE INDICATION	MISC.	FILM ARTIFACT	DEGR. DEGRITY	FILM DEGRITY	SENSITIVITY	ACCEPT	OBJECT	REMARKS	
5/8																					
0°																					
18																					
21																					
27																					
36																					
37																					
38																					
NOTE: Radiographically no indications were reported.																					
NOTE NO.		FPC-PTP-4302 OHC 7-31-80		EVALUATED BY:		LEVEL:		DATE:		INITIALS:											
THIS REPORT IS FOR:		TRAVELER <input type="checkbox"/>		J. L. Lottola Jr.		5/13/80		20-80		FPC											
W/R# NO.		40-40054		APPROVED BY:		FPC		24-80		INITIALS:											
OTHER				TITLE:																	
DISCREPANCIES: DATA																					
<input type="checkbox"/> NO DATA																					
<input type="checkbox"/> DATA																					
<input type="checkbox"/> OTHER																					

RADIOGRAPHIC INSPECTION REPORT (IS 9.3)									
Project Turkey Point # 3		DRAWING NO.		PS		REV.		100%	
SYSTEM: S16-TM08 PHMCS		85826		VIA					
HOLD HOLE		SEE STATIONS		EXPOSURE SIDE SIDE				7	
SI	REV.	TECH.	CAT.	APPENDIX ACCEPT STD					
# 1 T.S.-9.3 I ASME III									
MATERIAL TYPE INCONEL 690		THICKNESS RANGE(DIA OR LENGTH) .125		1 1/2"					
NO. OF EXPOSURES 1		NO. FILM POINTS 4		REF NCR# 90-NASY					
SOURCE 18192 8751		COL. 60 X-RAY CRV		SOURCE SPOT SIZE .157					
CUSEC 0		CMMIN. 0		CUSEC 0 CMMIN. 0					
CMMIN. 0		NAME: SFOR 20"		NAME: SFOR 20"					
ASA 2500		EXPOSURE SPEED Q-2		ASA 2500					
SURFACE CONDITION AS WELDED		FLAT TOPPED		GROOVE SMOOTH					
RADIOGRAPHER: David L. Miller II		CAT LEVEL: 3/13/93 DATE: 3/13/93		INITIAL:					
NOTE: Radiographic X-Ray Indicators Were Releated 6X3.500									
STATION#		WELD		FUSION		INTERFACt		EVALUATION	
S/N	FORGE	WELD	CHARGE	WELD	FUSION	INTERFACt	WELD	WELD	WELD
900									
18									
21									
27									
36									
37									
38									
NOTE: Radiographic X-Ray Indicators Were Releated 6X3.500									
TEST NO.		EVALUATED BY:		LEVEL:		DATE:		INITIALS:	
FPL-PP-4302 SHE 7 31-90		JL Miller II		LEVEL 1		3/13/93		JL	
FPL-PP-5328 SHE 4 17-90									
THIS REPORT IS FOR TRAVELER # 90-NASY									
NAME: _____									
OTHER: _____									
DISCREPANCIES: UNA									
COMMENTS: _____									
COMMENTS: _____									
OTHER: _____									
REMARKS APPROVED BY: Koss TITLE: 363.500 SIGNATURE: JL Miller 3/13/93									

SHIPPING NOTICE

JOB NO. _____

SN NO. CT 0391

DATE May 14 1991

CONSIGNMENT TO Chuck Horden Red Lion Inn Room 116
ADDRESS 510 Main Dr. Kelso Wa 98626

ROUTING _____

COLLECT/PREPAID

AIR EXPRESS	X	PURCHASE ORDER NO.	OS & O NO.	ORIGINAL MRR NO.
EXPRESS		MATERIAL ORIGINALLY PURCHASED ON P.O. NO.	SUPPLIER	
RAIL FREIGHT				
MOTOR FREIGHT		REASON FOR SHIPMENT:		
PARCEL POST		SHIPMENT AUTHORIZED	Dennis Green	BILL OF LADING ATTACHED FGS EX 9821467725
BEARER				

ITEM NO.	QUANTITY	UNIT	COMPLETE DESCRIPTION
1	14	Plugs	85825.1, 1, 3, 5, 6, 7 88512 4, 5, 6, 7 85825.4, 9, 10, 14, 17

RETURN AUTHORIZED BY: _____

COMPANY _____

SHIPPER
Universal Testing Labs, Inc.
5959 SHALLOWFORD RD.
SUITE 531
CHATTANOOGA, TN. 37421

ADDRESS _____

PER 1

Explanation of plug 4/10/91
serial numbers listed
NOTE: above per our own records.

DRAWING 85825.4
TRANSFER # 0039
HEAT # 5207

DRAWING 85825. BH 1
TRANSFER # 0039
HEAT # NX5207

DRAWING 88512
TRANSFER # 0053
HEAT # 764484