### U.S. NUCLEAR REGULATORY COMMISSION REGION I

Report Nos. 50-445/89-38 50-446/89-38	
Docket Nos. 50-445 50-446	
License Nos. CPPR-126 CPPR-127	
Licensee: Texas Utilities Generating 2001 Bryon Tower Dallas, Texas 75201	
Facility Name: Comanche Peak Units 1 and 2	
Inspection At: Glen Rose, Texas	
Inspection Conducted: July 17 through 27, 1989	
Inspectors; Atronuder	8/17/89
for M. W. Kerch, Senior Reactor Engineer	Jate
Atrosuder	8/17/59
Pr. R. H. Harris, NDE Technician	date
Tromber	8/17/89
Pr M. A. Oliveri, NDE Technician	date
Approved by: Jack Stroander	8/17/84
J. R. Strosnider, Chief, Materials and Processes Section, EPB, DRS, Region I	date

Inspection Summary and Conclusions: A routine unannounced inspection was conducted at Comanche Peak Nuclear Power Station on July 17 through July 27, 1989, Report No. 50-445/89-38.

Areas Inspected: This inspection focused on preservice inspection activities, licensee disposition of deficiencies reported, and the licensee's erosion/corrosion program.

Summary and Conclusion: Three violations and three unresolved items were identified during this inspection. Necessary corrective actions for significant deficiencies were not promptly identified and resulted in inappropriate corrective action by site engineering. Preservice ultrasonic examination data of piping weldments are of poor quality and will not be of benefit during Inservice Inspections.

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DETAILS

### 1.0 Persons Contacted (30703)

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Texas Utilities Generating (TUGCO)

S. G. McBee, NRC Interface
Susan Palmer, Stipulation Manager
Fred W. Madden, Mechanical Engineer
David L. Foken, Mechanical Engineer
Ken Pointer, Licensing Engineer
J. T. Maxwell, Quality Control Manager
W. G. Guldemond, Manager Site Licensing
S. L. Ellis, Test Manager
J. W. Muffett, Manager, Engineering
W. J. Cahill, Jr., Executive Vice President

Stone & Webster Engineering Corp. (SWEC)

Roger Smith, Engineering M. P. Holland, Lead Structural Engineer T. W. Houston, Group Supervisor

Citizens Association for Sound Energy (CASE)

Billie Gerde, CASE Attorney

U.S. Nuclear Regulatory Commission, Comanche Peak Division

H. Livermore, Resident Inspector

R. M. Latta, Resident Inspector

P. F. McKee, Deputy Director CPPD

J. S. Weike, Reactor Engineer

R. F. Warnick, Reactor Engineer

The above listed personnel were present at the exit meeting. The inspector also contacted other administrative and technical personnel during the inspection.

2.0 Independent Measurements - NRC Nondestructive Examination and Quality Records Review

During the period of July 17 through July 27, 1989 an onsite independent inspection was conducted at Comanche Peak Nuclear Power Station. The inspection was conducted by NRC regional based inspectors. The objectives of this inspection were to assess the adequacy of the

licensee's preservice inspection program, welding quality control program, and erosion/corrosion program. The licensee's actions regarding verification of the "As-Built" configuration of pipe hanger/supports and the licensee's actions to disposition identified construction deficiencies were evaluated. Examinations required of the licensee by regulations and codes were reperformed by the NRC inspectors.

## 2.1 Nondestructive Examinations (NDE)

# Visual Examination of Pipe Welds (57050) (55150)

Forty-two safety related pipe weldments and adjacent base material (1/2 inch on either side of the weld) were visually examined in accordance with NRC procedure NDE-10, Rev. 0, Appendix A, and associated site QC documents isometrics and as-built drawings. Included in this inspection were ASME Class 1 and 2 pipe weldments selected from the Safety Injection (SI) and Chemical Volume Control (CS) Systems. This examination was performed specifically to identify any cracks or linear indications, gouges, leakage, arc strikes with craters, or corrosion, which may infringe upon the minimum pipe wall thickness.

### Results

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The welding and overall workmanship inspected were satisfactory. No violations were identified.

# Visual Inspection of Hangers/Supports (57050)

During this inspection fifty-six safety related hanger/supports were visually inspected per NRC procedure NDE-10, Rev. 0, Appendix A and B in conjunction with site QC documents, isometric/drawings. Included in this inspection were hanger/supports selected from the Safety Injection (SI), Chemical Volume Control (CS), Reactor Coolant (RC) and Residual Heat Removal (RHR) Systems. In the areas of welds, the accessible surface area and adjacent base metal for a distance of one-half inch on either side of the weld was examinated. In the area of component integrity specific attributes looked for were proper installation, configuration or modification of supports, evidence of mechanical or structural damage, corrosion and bent, missing or broken members.

### Results

Welding and surface conditions were satisfactory, no violations were identified.

# Liquid Penetrant Examination (57060)

Forty safety related pipe weldments and adjacent base material (1/2 inch on either side of the weld) were examined using the visible

dye, solvent removable method per NRC procedure NDE-9, Rev. 0, in conjunction with the licensee's procedure QCI-3.12, Rev. 4. Included in this sample were ASME class 1 and 2 pipe weldments selected from the Safety Injection (SI) and Chemical Volume Control (CS).

### Results

Welding and surface conditions were satisfactory, no violations were identified.

## Ultrasonic Examination (57080)

Six safety related pipe weldments were ultrasonically examined using a Sonic Mark 1 ultrasonic flaw detector.

These examinations were performed in accordance with NRC procedure NDE-1, Rev. O and associated site drawings, procedures and ultrasonic test data reports. The instrument calibration (vertical and amplitude linearity) was performed per NRC procedure NDE-2, Rev. O. A distance amplitude correction curve (DAC) was constructed using the licensee's calibration blocks, TBX-9 and TBX-5. To ensure repeatability of the ultrasonic examination, the instrument setting and search unit (transducer) were matched as near as possible to those indicated by the licensee's ultrasonic data reports.

### Results

An ultrasonic examination of weld 7, TBX-2-2523; in the safety injection system revealed an indication which was greater than 50% of the DAC. In accordance with the ASME Boiler and Pressure Vessel Code, Section XI, 1980 Edition, paragraph IWA 2232(b)(c) for examination of welds, reflectors that produce a response greater than 50% of the reference level shall be recorded. The reflector that was identified by the NRC was confirmed by the utility as being over 50% of DAC. However, the PSI Ultrasonic data report did not show this reportable reflector. As discussed in Section 3.0, further investigation by the inspector revealed that this deficiency was the result of an improper procedure.

## Erosion/Corrosion Examination (57080)

Seven grid locations were selected for independent erosion/corrosion examinations by the NRC inspectors. Included in this examination were piping from the Condensate (Co) and Feedwater (FW) systems (grid numbers COO3, COI0, CO13, CO14, CO16, FW13, and FW29). A Nova D-100 digital thickness gauge was used to acquire the data in accordance with NRC procedure NDE-11, Rev. O and the Comanche Peak "Corrosion Monitoring Plan." The software for data storage and analysis was also reviewed during this inspection.

### Results

The NRC acquired data showed no discernible difference from the data taken by technicians from Comanche Peak. The grids were marked on components in a way to ensure repeatable data collection. The data storage and analysis software is developed to engineering in identifying minimum wall violations and help establish erosion/corrosion wear rates in the future.

# Service Water Erosion/Corrosion Unit 1 (92701)

The inspectors performed a follow-up inspection on the previously identified problem of sandblast coating removal, corrosion and remote visual inspection of the 10" piping of the Unit 1 service water system. NRC inspection reports 88-47, 88-48 and 89-44 and Texas Utilities Engineering Report ER-ME-19, dated September 21, 1988 were reviewed. These reports documented the licensee's corrective actions to assure that minimum wall thickness requirements were satisfied for the service water piping. These actions included replacement of some spool pieces and additional inspections. Also, as discussed below, the procedures for removal of coating and visual examinations were modified for Unit 2 to avoid the type of problems that occurred at Unit 1. The inspector had no further concerns regarding this issue and considers the Service Water 10" piping issue closed for Unit 1.

## Service Water Erosion/Corrosion Unit 2 (92701)

During this inspection, the licensee was performing removal of coatings by sandblasting and remote visual examinations of the Unit 2 Service Water piping system. Several procedures dealing with these operations (included in Attachment 3) were reviewed by the inspectors and found to be acceptable.

# 3.0 Review of Site NDE Procedures and Manuals (57050)(52070)

The procedures listed in Attachment 3 were reviewed in the regional office during this inspection period for compliance to the licensee's FSAR commitments and applicable codes, standards and specifications.

### Results

Westinghouse procedure, Manual Ultrasonic Examination of Welds Section 7.0, reads in part that valid flaw indications which provide a response equal to or greater than 50% of primary DAC shall be considered a recordable indication. Section 6.0 of the procedure, interprets valid indications to be reflectors cause by flaws, such as cracks, lack of penetration or fusion, inclusions and porosity. This is not in accordance with ASME Code Section XI, 1980 Editior which in part reads, all reflectors that produce a response of 50% or greater shall be recorded. This procedural deficiency is a violation of 10CFR 50, Appendix B, Criterion IX (50-445/89-38-04). As indicated in Section 2.1 of this report, independent NRC inspection identified a Code recordable indication that was not recorded because of this procedural deficiency.

# 4.0 Preservice Inspection (PSI) Program (73055) (73051) (73053)(73052)

The Comanche Peak Unit 1 preservice inspection has been completed. Comanche Peak's program was prepared and implemented by Westinghouse. The PSI program incorporates the requirements of the ASME Boiler and Pressure Vessel Code, Section XI 1980 supplemented by additional requirements of USNRC Reg. Guide 1.150. The licensee has requested relief from specific ASME Code requirements applicable to this program, which they feel are impractical. Such requests with technical justification for relief have been submitted to the NRC for review and approval.

### Reviews

The inspector reviewed the following to ascertain compliance with applicable ASME code requirements, license commitments, and regulatory requirements.

- The preservice inspection program
- Personnel certification records for qualification of PSI contractor personnel
- PSI examination data reports
- NDE procedures
- FSAR

In addition, the inspectors witnessed a liquid penetrant PSI examination reperformed by the licensee. The NRC inspectors reperformed visual, liquid penetrant and ultrasonic examinations on a selected sample of welds.

Listed below are concerns that were identified during these inspections.

- The volume of weld examined by the licensee was not adequately documented (no plots existed to assure proper ultrasonic coverage, only estimated percentages were provided on final NDE reports).
- Examination limitations were not properly documented.
- Ultrasonic examination reports of record did not have dispositions as to the acceptability of examination results.
- Improper documentation of reflectors greater than 50% of DAC.

#### Results

Because of deficiencies in the documentation of preservice ultrasonic examination data the licensee's PSI program has not provided a good baseline for future inservice inspections (ISI). The lack of good documentation will complicate the evaluation of ISI data. The licensee should ensure that data taken during ISI are adequate to provide a good baseline for future examination. This item is unresolved pending licensee action and NRC review (Unresolved Item 50-445/89-38-01).

## PSI Calibration Blocks

The licensee does not have as-built drawings of the site preservice inspection calibration blocks. There are approximately 44 calibration blocks. Because of the lack of as-built drawings it could not be verified that the blocks satisfy the 1980 ASME Section XI PSI requirements or the 1986 ASME Section XI requirements applicable to future inservice inspections. This item is considered unresolved pending licensee action to verify accept-ability of the calibration blocks (Unresolved item 50-445/89-38-02).

# PSI Procedure OPS-NSD-101, Rev. 5 dated April 8, 1975

Forms used during the PSI examinations were different than the ones contained in the procedure and the explanation in the procedure of what information needs to be included on the forms was inadequate for the ultrasonic data taken during the PSI. This issue is unresolved pending licensee action and NRC review (Unresolved Item 50-445/89-38-03).

# PSI Reactor Vessel Nozzle Inner Radius (73055)

During the review of PSI data two concerns were identified regarding the reactor vessel nozzle inner radius preservice inspections.

- 1. The inspector discussed the rationale for performing manual ultrasonic examinations from the inner surfaces of the reactor vessel nozzles, when radiological conditions will prohibit manual examination during inservice. It was determined that during the PSI, the automatic equipment was unable to perform the maneuvers required to completely examine the nozzle inner radius and manual examination was needed as a supplement. Since that time the capability of the automatic equipment to provide the required examination coverage has been developed and a completely automated preservice exam has been completed.
- 2. There was no evidence of the required approvals for PSI procedure ISI-155, Manual Ultrasonic Examination of Nozzle Inner Radius, by the authorized inspection agency nor the licensee. Documentation was found that indicated the procedure had received a review. To supplement this the licensee is resubmitting ISI-155, Rev. 0 procedure to the authorized Nuclear Inservice Inspector and the licensee's NDE Level III for review in order to have evidence of proper reviews of acceptability.

#### Result

The inspector has no further concern and considers these subjects closed.

# 5.0 Electrical Penetrations (92706)

The licensee identified by deficiency report DR-C-88-02376, dated October 25, 1988, that the electrical penetrations (full penetration weldments) did not have the ASME code required radiography examination performed during the construction phase. The containment structural integrity test had been performed and fuel load was scheduled in approximately 70 days at the time of this report. The Comanche Peaks Unit 1 FSAR requires that the 77 electrical penetrations meet ASME Boiler and Pressurize Vessel Code, Section III, Division I, Subsection NE, 1971 through and including the 1973 Summer addenda for the full penetration Class II welds. In addition, Gibbs and Hill's Specification 2323-SS-14, Rev. 4 requires these electrical penetrations to be fully examined in accordance with the examination methods of NE-5120 of Section III of the ASME Boiler and Pressure Vessel code.

The inspector reviewed the actions taken by the licensee to resolve this nonconformance. The licensee stated that they had performed a stress analysis of the subject penetrations and that a change to the FSAR to eliminate the code required volumetric examination of the welds planned to be submitted to the NRC. The inspector performed a walkdown of the electrical penetrations and concluded that radiography was not suitable at this time, however, the code required volumetric examination. Stress analysis is not a substitute for the performance of nondestructive testing that is intended to verify the acceptable quality of fabricated components. It was evident that adequate engineering corrective action had not taken place and the disposition was inadequate. This is a violation of NRC requirements (50-445/89-38-06).

At the conclusion of this inspection, the licensee was preparing to perform ultrasonic examinations of the electrical penetrations.

# 6.0 Fuel Transfer Tube Penetration Sleeve Weldments (92706) (51090)

The licensee identified in deficiency report DRC-88-02376, dated October 25, 1988, that the fuel transfer tube penetration sleeve did not have the ASME Section III code required radiography examinations for the full penetration Class II weldments (1A, 1B, 2A and 2B). DRC-88-02376 required the fuel transfer tube weldments to be radiographed. Nonconfirmance report number 89-04023, Rev. 1, dated April 4, 1989, was initiated and these welds were radiographed on June 3, 1989 and rejected for gross welding defects in accordance with site radiographic procedure AQP-10.4.

NRC review of this deficiency revealed the following:

 DCA-6500 issued March 19, 1980 did not incorporate on the DCA drawing the required engineering design (weld symbol) for the required full penetration weldments. This DCA also did not contain the NDE requirements for 100% radiography for these weldments. The requirements for full penetration welds and for 100% radiography were established in FSAR Section 3.8.1.2.3, through reference to the ASME Boiler and Pressure Vessel Code, Section III, Division I, Subsection NE, 1971 through and including the 1973 Summer Addenda. Gibbs and Hill's site specification for containment Stee? Liner 2323-SS-14, Section 10.2.3 also specified the requirement for full penetration welds and 100% radiographic inspection.

- The control, verification and site quality requirements for this Field Design change were not in accordance with site procedures CP-EP-4.6, CP-EP-4.5 and CP-EP-4.0.
- These deviations were not promptly identified.
- The disposition of NCR-89-04023, Rev. 1 accepted "as-is" the Class III weldments (1A, 1B, 2A and 2B) with rejectable radiographic indications. This is not an appropriate in that an adequate corrective action is to repair the radiographic rejected areas in accordance with ASME Section III requirements and post-repair magnetic particle examinations and radiography in accordance with ASME Section III, NE-5120 and as required by site specification 2323-SS-14. This is a violation of NRC requirements (50-445/89-38-05).

### 7.0 Attachments

Attachment No. 1 is a tabulation of specific pipe weldments and components examined. Attachment No. 2 is a tabulation of specific hanger/supports examined. Attachment 3 is a list of the NDE procedures reviewed.

## 8.0 Unresolved Items

Unresolved items are matters about which more information is required in order to ascertain whether they are acceptable items or violations. Three unresolved items appear in paragraph 4.0.

## 9.0 Management Meetings (30703)

Licensee management was informed of the scope and purpose of the inspection at the entrance interview on July 5, 1989. The findings of the inspection were discussed with the licensee representatives during the course of the inspection and presented to licensee management at the exit interview (see paragraph 1.0 for attendees).

At no time during the inspection was written material provided to the licensee by the inspector. The licensee did not indicate that proprietary information was involved within the scope of this inspection.

SPTE: UU	-					-				DATE: 7/17-7/28/8
ISONDWG	WELD	SYSTEM	1 CL	RT	PT	lui	IVT	ACC	REJ	COMMENTS
CS-1-R0-31E	260	CS	1		X		X	X		CHEM, VOL. CONTROL (CS)
CS-1-R8-316	SBW	CS	11		X	1	X	X		
CS-1-R8-316	480	CS	1		x	-	X	X		······································
CS-1-R8-318	SEG	CS	1		X		×	λ		
CS-1-R8-318	6BW	CS	1		x	1	X	X		and a second
CS-1-RB-31B	7	CS	1		x		X	X		
CS-1-RB-31B	8	CS	i		X		X	X		
CS-1-RB-31B	9	CS	1		X		X	X		
CS-1-RB-318	10	CS	1		x		x	x		
05-1-RB-31B	11	CS	1		x		X	X		
S-1-RB-31B	12	CS	1		x		x	X		
S-1-R8-318	13	CS	1		x		x	X		
1-1-RB-206	5	SI	1	1	X	x	x	x		SAFETY INJECTION
I-1-RB-006	6	SI	1		×	x	x	X		
I-1-RB-006	9	SI	1	1	x		x	X		
I-1-RB-013	10	SI	1		x		x	X		
J-1-RB-013	11	SI	1		x		x	x		
I-1-RB-013	12	SI	1	)	x		x	x		
I-1-RB-013	13	SI	1	)	×		x	x		
I-1-RB-013	14	SI	1	)	(		x	X		
I-1-RB-013	15	SI	1	)	(	1	x	x		
1-1-RB-015	16	SI	1	×		)	<	x		
I-1-RB-015	175W	SI	1	X		)		x		
1-1-RB-015	185W	SI	1	X		)		x		
I-1-RB-015	19	SI I	1	X		)		x		
1-1-RB-015	200	SI .	1	X	1	X		x		
-1-RB-015	21	S1 1	1	X	1	X	1	X		
I-1-RB-015	22510	S1 1	1	X	1	X	+	x	1	

ISUNDWO	WELD	SYSTEM	ICL	81	PT	Jur	1VT	AUC	RE.)	COMMENTS
51-1-1-8-015	2350	S1	1		X		X	1 .		SAFETY INJECTION
51-1-RH-015	24	SI	11		X	1	X	X		
31-1-+88-w1-	25	51	1		×		x	1		
1-1-RB-015	12654	S1	1		X		x	x		
I-1-RB-015	2750	S1 .	1		X		x	X		
1-1-88-015	285W	SI	1		X		X	x	- +	
I-1-R8-37	i DM	S1	2		X		X	1.		ACCUMULATOR DISCHARGE
1-1-RB-37	2	S1	2		X		X	×		
I-1-RB-37	6	SI	2			X	X	×		AXIAL SCAN ONLY UT
I-1-RB-37	7	SI	2			x	x	x		AXIAL SCAN ONLY UT
I-1-RB-39	1 DM	S1	2		x		X	x		
I-1-RB-39	2	SI	2		x		X	X		
I-1-RB-39	6	S1	2		X	X	X	x		AXSAL SCAN ONLY UT
I-1-RB-37	7	SI	2		X	X	x	X		AXIAL SCAN ONLY UT
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ATTE: CUMANCHE		IT MEASURE	MENTS IN INSPECT	SPECTI TUN	DN	SHT 1 OF 2 1 7/17-7728784
DWG / 1 EQ HANG	BER/SUPPORT	SYSTEM	CLASS	ACC	REJ	COMMENTS
51-1-38-15 SI-1-	-039-016-S22R	S1	2			SAFETY INJEC
SI-1-58-15 SI-1-	-039-017-S22R	SI	1 2	×		1
SI-1-50-15 SI-1-	039-018-522R	SI	2	1 A		1
SI-1-52-15 SI-1-	039-019-522R	51	2	×.		1
SI-1-SE-15 SI-1-	039-020-522R	SI	2	X		
SI-1-SE-15 SI-1-	039-021-522R	SI	2	X		
SI-1-SE-15 SI-1-	039-022-522R	51	2	X		1
SI-1-SE-23 H-SI-	1-023B-001-2	SI	2	X		бнн
SI-1-SB-23 H-SI-	1-0238-002-2	SI	2	X		бнн
SI-1-58-23 H-SI-	1-0238-003-2	SI	2	X		бнн
SI-1-SB-23 H-SI-	1-0238-004-2	SI	2	X		бнн
SI-1-SB-23 H-SI-	1-0238-005-2	SI	2	x		Снн
RC-1-RE-06 RC-1-0	069-001-C41R	RC	1	X		REACT. CODLANT
RC-1-RB-06 RC-1-0	069-002-C41R	RC	1	X		
RH-1-RB-02 RH-1-0	002-001-C415	RH	1	x		RESIDUAL HT.
RH-1-RB-02 RH-1-0	02-004-C415	RH	1	x		
RH-1-R5-02 RH-1-0	02-009-C41K	RH	1	X	+	
RH-1-RB-02 RH-1-0	02-010-0415	RH	1	x	+	
RH-1-RB-02 RH-1-0	02-011-C415	RH	1	x		
RH-1-RB-02 RH-1-0	02-012-041K	RH	1	x		
RH-1-RB-02 RH-1-0	02-013-C41R	RH	1.	x		
RH-1-RB-02 RH-1-0	02-014-041K	RH	1	x		
RH-1-RB-01 RH-1-0	01-001-0415	RH	1 1	x		
H-1-RE-01 RH-1-0	81-004-C415	RH	1	x		SAFETY INJECT.
H-1-RE-01 RH-1-0	81-007-041K	RH	1	x		and the second sec
H-1-FE-01 FH-1-0	01-008-C41K	RH	1	x		
H-1-RB-01 For-1-00	01-011-0415	RH	1	7		
H-1-FB-01 RH-1-00	1:-012-04101	RH		x		

STIC: CON	A NDEPENDEN ANDER PEAK HANGE	R/SUPPORT	INSPECI	i fon	DATE	SHT 2 OF 2 : 7/17-7/28/89
DWG/150	HANGER/SUPPORT	SYSTEM	CLASS	1 ACC	REU	COMMENTS
51-1-66-24	SI-1-026-710-C41R	SI	1		1	SAFETY INJEC
SI-1-F.6 4	51-1-026+710-041K	S1	i	1	1	
S1-1-HU-2 -	51-1-925-711-041R	SI	1 1	1 1		
SI-1-FB-24	51-1-026-712-C41R	SI	1	1 .		
SI-1-RB-24	SI-1-026-715-041R	SI	1	X		
SI-1-RB-24	51-1-026-718-C41R	SI	1	X		
SI-1-RB-24	51-1-026-721-C41R	SI	1	y .		
SI-1-R8-24	SI-1-026-723-C41R	SI	1	X		
SI-1-RB-24	SI-1-026-723-C41R	SI	1	X		
RC-1-RB-10	RC-1-015-700-C41K	RC	1	X		REACTOR COOL.
RC-1-RB-10	RC-1-015-762-C415	RC	1	X		
RC-1-RB-10	RC-1-015-703-C41K	RC	1	X		
RC-1-RB-10	RC-1-015-705-C41K	RC	1	X		
RC-1-RB-10	RC-1-015-708-C41R	RC	1 0	X		
RC-1-RB-10	RC-1-016-700-C41K	RC	1	X		
RC-1-RH-10	RC-1-016-704-C415	RC	1	X		ана в напра Алиянии и напазна на на село у село у село и и проучал на
RC-1-RB-10	RC-1-016-705-C41R	RC	1	X		99
CS-1-RB=07	CS-1-161-700-C415	CS	1	x		CHEM. VOL. CRT
08-1-RB=09	CS-1-161-701-C415	CS	1	X		
CS-1-RB=09	CS-1-161-702-C41K	CS	1	X		
S-1-RB=09	CS-1-162-700-C42K	CS	2	x		an a
05-1-RB=00	CS-1-162-704-042K	CS	2	X		1946 / W. 1939 / W. 1997 / W. 1
S-1-RB=09	CS-1-162-705-C425	CS	2	X		ning of a material state of the second state of the second state of the second state of the second state of the
1-1-5B-25	51-1-039-011-522R	SI	2	X		SAFETY INJECT.
1-1-58-151	51-1-039-002-522R	SI	2	X		ani, ta nga sana mining ang kang kang kang kang kang kang kan
1-1-58-15	51-1-039-012-322R	S1	2	X		
1-1-SB-15	51-1-039-013-522R	SI	2	x		
1-1-5B-15	51-1-039-015-522R	SI I	2	x		

### ATTACHMENT 3

# Westinghouse Nuclear Services Division (NDIS)

Procedure Title Number/Revision Westinghouse Preservice and Inservice Examination Documentation INT-ISI-101, Rev O Magnetic Particle Examination INT-ISI-70, Rev O Liquid Penetrant Examination INT-ISI-11, Rev O Visual Examination INT-ISI-8. Rev O Manual Ultrasonic Examination of Welds in Vessels INT-ISI-47, Rev O Manual Ultrasonic Examination of Welds INT-ISI-206, Rev O Reactor Vessel Inspection Program Preparation and Documentation RV-ISI-01, Rev 1 Preservice Inspection Reactor Vessel ISI-154, Rev 1 Manual VT Examination of Reactor Nozzle Inner Radius ISI-155, Rev 0 Manual VT Examination of Full Penetration Circumferential and Longitudinal Butt Welds ISI-205, Rev 2 Magnetic Particles ISI-70, Rev 2

Texas Utilities Generating Company (TUGCO)

Corrosion Monitoring Program Ultrasonic Measurements NQA 3.09-8.47, Rev 0 Visual Examination VE-1, Rev 1 Radiography RT-ANSI-B31.1, Rev O Coating Removal of 10" Piping QCP-2, Rev O Quality Personnel for Abrasive Blast Removal DCA 85609, Rev 2 Remote Visual of 10" Piping After Plastic Removal 2 PPT-40.9 Remote Visual of 10" Piping Prior to Plastic Removal 2 PPT-40.8 Design Verification CP-EP-4.5 Field Design Change Control Procedure CP-EP-4.6 Design Central General CP-EP-4.0

ATTACHMENT 3

Procedure Title	Number/Revision
Oliver B. Cannon	
Coating Removal by Abrasive Blasting	CSPVL339 (QCP-1, Rev 2
Brown and Root	
Remote Visual Examination Radiographic Examination	AQP-10.11 AQP-10.4
Stone and Webster Engineering	
Qualification for Remote Spin Blast for	
10" Piping Qualification for Handheld Blast for	SW-TP-ME-03, Rev 1
24" and 30" Piping	SW-TP-ME-02, Rev 1
Gibbs and Hill	
Design Specification for Containment	
Steel Liner	2323-55-14