



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20585

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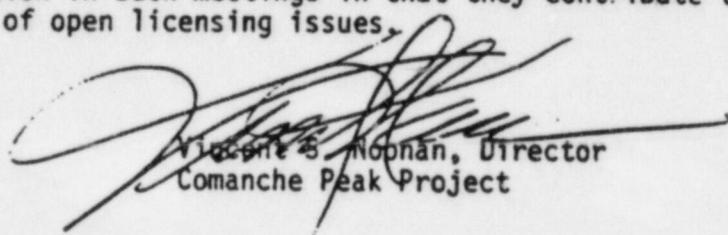
JUL 25 1985

Mrs. Juanita Ellis  
Citizens Association for Sound Energy  
1426 South Polk  
Dallas, Texas 75224

Re: Transcript of 6/17/85 Feedback Interview

Dear Mrs. Ellis:

Enclosed is one copy each of transcripts of feedback meetings conducted by telephone conference call on May 2, 1985 and June 17, 1985 with [REDACTED]. We appreciate your participation in such meetings in that they contribute to the resolution and close-out of open licensing issues.

  
Robert S. Moilanen, Director  
Comanche Peak Project

Enclosure: As stated

cc: M. E. Kline

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PDR FOIA  
GARDE85-59

PDR

FOIA-85-59

R144

JUL 25 1985

Mrs. Juanita Ellis  
Citizens Association for Sound Energy  
1426 South Polk  
Dallas, Texas 75224

Re: Transcript of 6/17/85 Feedback Interview

Dear Mrs. Ellis:

Enclosed is one copy each of transcripts of feedback meetings conducted by telephone conference call on May 2, 1985 and June 17, 1985 with [REDACTED]  
We appreciate your participation in such meetings in that they contribute to the resolution and close-out of open licensing issues.

Vincent S. Noonan, Director  
Comanche Peak Project

Enclosure: As stated

cc: M. E. Kline

OFC :CPP :CPP : : : :  
-----:-----:-----:-----:  
NAME :CPoslusny :VSNoonan : : : :  
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7-16-85 Mack

OFFICIAL RECORD COPY

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VII - 16

c/s

VII. (continued - 16):

In reference to the need for combined tests, Mr. Tapia (Tr. 6508/10-13) states in answer to whether test should have been combined tension and shear:

"Not in my opinion, not in the Richmonds."

Beyond this, the test procedure used by the Applicant used 4 layers of steel reinforcing top and bottom, which does not represent the most adverse condition at Comanche Peak. Mr. Walsh discussed at Tr. 6490/1-10 his concern that the concrete slab used in the test was more heavily reinforced than in the plant. The following discussion took place (Tr. 6490/11-6491/6):

"JUDGE BLOCH: . . . Is there a panel member who is familiar enough with the concrete and reinforcement to be able to comment on whether the test conditions were unrealistic with respect to the reinforcement of the slab in the test?

"WITNESS TAPIA: I'm somewhat familiar with some of the details in the plant, although they vary, but I would say that the majority of cases, for inside containment, No. 11 bars are used on either phase, two forces on either phase.

"That is typical. There are other orientations. And I would say that the testing of the Richmond inserts with the concrete block would resemble those same assemblies utilized inside containment with respect to the reinforced concrete.

"JUDGE BLOCH: Because there was No. 11 bars used in the test, also?

"WITNESS TAPIA: Not so much that, but because they are similar. It doesn't have to be exactly No. 11 bar. It could have been No. 8. There are many variations." (Emphases added.)

In response to Judge Bloch's question as to what the differences were between the No. 11 bar done in the plant and the sample that was used for the test, Mr. Tapia suggested that they look at CASE Exhibit 834 (the test report on the Richmonds). Mr. Tapia concluded that four layers of steel were used: layer 1, No. 11 is 10 inches; layer 3 are No. 9's at 10 inches. In the other direction, layer 2 is a No. 11 at 10 inches and layer 4 is a

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R145

VII. (continued - 17):

No. 9 at 10 inches. Mr. Tapia stated that, with regard to the similarity between what was used in the test and the containment, that "it is typical of the reinforced cross-sections used inside containment." (Tr. 6491/7-6492/15.)

Then Judge Bloch asked (Tr. 6492/16-6494/22):

"JUDGE BLOCH: Are there any sections of the containment that are sufficiently weaker than this, so that the test data should not be considered applicable to those sections of the containment?

"WITNESS TAPIA: Sir, there may be some structural elements that don't have four layers, that actually have two layers, but I don't think that that would greatly influence the test results at all.

"JUDGE BLOCH: And is the composition of the concrete and the method of pour sufficiently similar so that also provides an adequate basis for generalization for this containment?

"WITNESS TAPIA: That is correct.

"MS. ELLIS: Mr. Chairman, I believe there are documents in the record already which indicate that there have been some sections which by engineering judgment, where reinforcing bars were not included, were never included, and we are concerned very much about those particular areas.

"JUDGE BLOCH: Do you know whether those areas have any Richmond inserts?

"MS. ELLIS: We do not, but we think that somebody should find out.

"JUDGE BLOCH: Mr. Tapia, do you know if this is a possible problem; that there are areas of the containment which engineering judgment caused less steel to be inserted in the concrete? . . . No steel.

"WITNESS TAPIA: I don't know of any, but if you didn't have any steel in some of those structural elements and you loaded them, I don't think they would function.

"I'm not aware of any." (Emphases added.)

VII. (continued - 18):

NRC Staff Attorney Scinto suggested that Mr. Taylor might have something to add. From Tr. 6495/5-6500/20:

"WITNESS TAYLOR: In my recollection, the only steel that has been left out, at least documented on the plan, concerns approximately 50 percent of the steel in some columns that were in the auxiliary safeguard building primary wall referred to as the EA wall on the site.

"Now, the particular steel --

"JUDGE BLOCH: Just one second. You said documented in the record.

"WITNESS TAYLOR: Not in this particular record. I don't know that it is here. I don't recollect that it is here.

"JUDGE BLOCH: Just the way you said it, you limited your conclusion.

"Do you know of any place in the plant, whether it is in the record or not, that this is being done?

"WITNESS TAYLOR: Sir, this was the subject of an inspection that I performed approximately four years ago based on a nonconformance report that gave me particular interest. I reviewed the citation in the nonconformance report. I reviewed the engineer's disposition to that nonconformance report for validity, and both were found valid.

"JUDGE BLOCH: Now I have asked a much broader question. It has nothing to do with that nonconformance report. It is whether from any source of information whatsoever do you know of portions of the containment from which steel has been omitted because of engineering judgment?

"WITNESS TAYLOR: No, sir."

. . . "JUDGE BLOCH: What the witness said was that most sections were like that, and that in his opinion the ones where there is somewhat less steel are sufficiently analogous so that the same test data will apply.

"WITNESS TAPIA: Yes, sir.

"JUDGE BLOCH: I guess I do have a question.

"How can that be? If you somewhat reduce the strength of the concrete by taking some of the steel out, how can you use the same allowables from a test that had more steel?

VII. (continued - 19):

"WITNESS TAPIA: Mr. Chairman, the steel in the case of the test block is there to simulate plant conditions. It is not there to provide strength to the Richmond insert per se.

"JUDGE BLOCH: But without any steel, you say there would be no strength?

"WITNESS TAPIA: I didn't say that.

"JUDGE BLOCH: You said you wouldn't count on it holding up?

"WITNESS TAPIA: No, no.

"JUDGE BLOCH: Would you clarify that?

"WITNESS TAPIA: I said I was not aware of any places, any structural elements in the plant where steel has been completely left out. In that case, you wouldn't have reinforced concrete. You would have plain concrete.

"JUDGE BLOCH: Would the test data apply to such a place in the plant with no reinforcement?

"WITNESS TAPIA: The test data on the Richmonds would apply but it would be, I believe, nonconservative, because you would expect that in concrete that is not reinforced, you would expect a slightly different behavior. Not significant.

. . . "JUDGE BLOCH: But the recent tests had steel in it?

"WITNESS TAPIA: Yes, sir.

"JUDGE BLOCH: What value did that establish?

"WITNESS TAPIA: The values that resulted are those that are listed in CASE Exhibit 834 on page 4, listed under maximum applied shear load.

"JUDGE BLOCH: . . . How would those full values apply in concrete that had less reinforcement than the test sample, or would you have to do an analytical adjustment because of there being less steel?

"WITNESS TAPIA: I would say that for plant conditions that I'm familiar with, and I believe you are referring to instances where there are only two layers of steel, versus four, these values would still apply, yes.

VII. (continued - 20):

"JUDGE BLOCH: But because of a notion of an amount of leeway that is in the rest of the analysis, certainly because you could not be confident that the data with four layers of steel would apply to concrete with two layers of steel? Does this have something to do with the design margins that you are not worried? How much difference would it make, percentagewise, in the strength of the concrete, to have two layers instead of four?

"WITNESS TAPIA: I don't believe it would influence it at all. The strength of the concrete that you are relying upon in the Richmond test is in concrete -- the failure mode that you would get would be intention (sic - should be in tension), what is referred to as a shear cone, or the pull-out of a cone of concrete that radiates around the Richmond.

"Now, this is a shear failure of the concrete.

"JUDGE BLOCH: Where is the Richmond embedded? Is it embedded so that it is between steel, or is it on top of the steel?

"WITNESS TAPIA: It is between. It is interlayered.

"JUDGE BLOCH: But the steel has no effect on when it would fail?

"WITNESS TAPIA: It might have a slight effect. I don't believe it will have a large effect at all.

"JUDGE BLOCH: Ten percent, five percent, twenty percent?

"WITNESS TAPIA: Five. I would say five percent.

"And in fact with respect to the strength of the cone failure, it might be less with the steel there because of the discontinuity in the shear cone.

"JUDGE BLOCH: So as a matter of engineering judgment, if you got very close to these allowables with only two layers of steel, you might as a matter of engineering judgment want to analyze a slightly lower allowable for that wall?

"You said it was 5 percent different.

"WITNESS TAPIA: No, sir. If you had four layers, or if you had two layers, it wouldn't matter." (Emphases added.)

## VII. (continued - 21):

There are several aspects of the preceding which need to be considered here. Let us consider first the matter of reinforcing steel which has been omitted. Mr. Tapia stated that he didn't know of any. Senior Resident Inspection - Construction, Mr. Taylor stated that his only recollection was regarding about 50 percent of the steel in some columns that were in the auxiliary safeguard building primary wall, which was the subject of an inspection which he performed about four years ago based on an NCR, that he reviewed the citation in the NCR and the engineer's disposition to that NCR and found both to be valid. When asked the specific question by Judge Bloch "whether from any source of information whatsoever do you know of portions of the containment from which steel has been omitted because of engineering judgment?" Mr. Taylor answered "No, sir."

However, there are instances in the record of these proceedings which indicate that rebar has been left out completely, designated "use-as-is," or embedded to an inadequate depth. We call the Board's attention to CASE's 10/18/82 Response to Board's Directive Regarding CASE Exhibits; in this document, at the direction of then-Board Chairman Marshall Miller, CASE made a detailed analysis of many documents which we had sought to introduce into evidence ("to focus CASE's exhibits, to eliminate repetitiveness, and to get a manageable group of relevant documents into the record which will be of assistance to the Board as a decision-making body"). All but one of the documents which we requested be admitted into evidence in our 10/18/82

VII. (continued - 22):

pleading were subsequently accepted into evidence by Board Order and later officially in the record. Among these documents are the following:

CASE Exhibit 364, NCR C-520  
CASE Exhibit 479, NCR C-669  
CASE Exhibit 482, NCR C-809  
CASE Exhibit 483, NCR C-810  
CASE Exhibit 484, NCR C-811

All of these NCR's have to do with reinforcing steel being omitted from placements, bent and mislocated rebar dowels which were never embedded to the required depth, etc. The preceding NCR's were dated prior to Mr. Taylor's becoming the Resident Inspector at Comanche Peak (in 1978); however, there is one other especially striking example of shear tie reinforcing steel being omitted from a concrete placement in the Unit 2 Containment. This item should have been (but was not) reported by Applicants under 10 CFR 50.55(e). It was reported by Mr. Taylor himself in I&E Report 79-18 (NRC Staff Exhibit 70), and appears to have been referred to by Mr. Taylor in a later I&E Report in which he also referenced the steel which was left out in the auxiliary safeguard building primary wall (which he told the Board about at Tr. 6495-6500); see I&E Report 79-26/79-25 (CASE Exhibit 253). The omission in the Unit 2 Containment led to the NRC Region IV office ordering Applicants to issue a stop work order. The ultimate decision was to leave the reinforcing steel out of that placement. See complete discussion regarding this under Section in these findings on CREDIBILITY OF WITNESSES.

With regard to Mr. Tapia's statement that he was not aware of any such areas where reinforcing steel was omitted, there is nothing in the record

VII. (continued - 23):

to indicate that he ever attempted to ascertain whether or not, in fact, there were such areas. Obviously, he might well not be aware of such areas if he had never attempted to investigate whether or not they exist. Equally obvious is that his lack of awareness does not mean that they do not exist.

Another aspect of this which needs to be considered at some point during these hearings is the use of "rebar eaters" out of procedure and without engineering knowledge and/or approval. The improper use of "concrete eaters" and "rebar eaters" has been or will be discussed with NRC investigators by J. R. Dillingham, Robert L. Messerly, and Howard J. "Robbie" Robinson (see CASE's 8/3/83 letter to the Licensing Board under Subject of: Record Regarding Discouragement from Reporting Nonconforming Conditions at Comanche Peak Nuclear Plant). Obviously, if there are areas where the rebar has been "eaten" out by the improper use of these "rebar eaters" without proper notification and approval of engineering at Comanche Peak, this could have a direct bearing on the issue at hand, just as could the omission of reinforcing steel.

It is our understanding that there will shortly be a report on this issued by the NRC Region IV office, following the investigation which was recently completed; it is CASE's understanding that the NRC investigators investigated the allegations, then turned any technical matters over to NRC Region IV inspectors to pursue. At this point in time, CASE has no idea what the investigation/inspection report will contain; however, we do have reservations regarding NRC Region IV's involvement (see CASE's 8/3/83 letter, especially at pages 4-5, 16-18, and 24-30, and attached affidavits and deposition).



QA RECORD

Brown &amp; Root, Inc.

QUALITY ASSURANCE DEPARTMENT  
NONCONFORMANCE REPORT (NCR)

P/M

(1) NCR No. M-1802

PROJECT CPSSES	JOB NO. 35-1195			PAGE <u>1</u> OF _____
(2) UNIT:	STRUCTURE/SYSTEM	COMPONENT	TAG/ID NUMBER	LOCATION OR ELEVATION
1 Service Water	Component	SW-1-010-004-A33R		RIR NO
1 Aux. Feedwater	Support	AF-1-001-007-Y33R	N/A	N/A
(3) NONCONFORMING CONDITION				(4) TREND CATEGORY
(3) DOCUMENT VIOLATED: 10CFR50 App. B Pt. V & VIII				G-3

See attached sheet.

FOR INFORMATION ONLY

CASE EXHIBIT 498

(5) REPORTED BY: J. Patton	(6) DATE: 11/ 5/79	(9) REVIEW APPROVAL: <i>D. Slackland</i>	(10) DATE: 11/15/79
(7) PREPARED BY: R. Michels	(8) DATE: 11/ 5/79	(11) ISSUED BY: <i>Clara Halliday</i>	(12) DATE: 11/15/79

(13) DISPOSITION ASSIGNED TO: D. Frankum	(14) DUE DATE: 11/19/79	(15) CORRECTIVE ACTION REQUEST CAR NO. - Required <input checked="" type="checkbox"/> Not Required <input checked="" type="checkbox"/> CN 11-8-79	(16) ASME CODE CLASS: X Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
(17) DISPOSITION: REWORK _____	REPAIR _____	USE AS IS _____	SCRAP _____ CN 11-8-79

(18) CONSTRUCTION REVIEW/APPROVAL	(19) DATE: / / /	(20) QA/QC REVIEW APPROVAL:	(21) DATE: / / /
22) ENG. REVIEW/APPROVAL	(23) DATE: / / /	(24) ANI REVIEW APPROVAL:	(25) DATE: / / /

26) VERIFICATION <input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory <input type="checkbox"/> Not Req'd	(27) QA/QC ENGR/INSPR VERIFICATION / /	(28) DATE
29) ANI CONCURRENCE	(30) DATE	/ /
(31) QA REVIEW/CLOSURE	(32) DATE	/ /

(33) REMARKS

FOIA-85-59

R146

I. DRAWING AF-1-001-007-Y33R

- F&P  
REVIEWED ONLY
- A. Revision 4 of support traveler required WARC 193, to be incorporated. This WARC was issued to replace FW-2 with FW-2A. The original plate per ABRF 00073 should have been used; it was not. ABRF 00073 is now missing from the traveler package.
  - B. Item #11 has been added on the bill of materials per ABRF 000315. ABRFs cannot be used to add or delete item numbers.
  - C. CMC 8417 R2, 10-3-79, Instruction 5, removed item 7 and added items 9 & 10. Item 7 was QC verified on 9-26-79 per ABRF 00072 and 73. Weld 2 & 3 were made on 10-18-79 using plates called out on ABRFs 00072 & 73. CMC 8417 required removal of item 7 and replaced with items 9 & 10. This was not accomplished and items 9 & 10 were not fabricated. Craft personnel failed to follow design changes as per CMC 8417.
  - D. Sheet one of drawing AF-1-001-007-Y33R lists welds 3 thru 9. Welds are not numbered and there is one more number assigned than needed. The drawing is unclear as to whether the welds are vendor or B&R welds.
  - E. WMF Log has line drawn through entry indicating rod was not consumed, however, entry shows 2 rods consumed. Line entry is not initialed and dated.
  - F. CMC 17671 is unclear; does not define reasons for change or clarify.
  - G. CMC 17678 dated 10-18-79 calls for shims to be installed between support and wall. CPP 1993, dated 10-11-79 deleted shimming and specified grout instead.

II. DRAWING SW-1-010-004-A33R

- A. Item 6 fabricated and verified on 9-25-79 per ABRF 00062. CMC 7401, R1, 9-26-79, deleted item 6 and added item 8. Construction personnel lined through item 6 and changed it to item 8. Item 6 is being used; it is different than item 8 and not per CMC-7401.
- B. Hole spacing has been changed on the ABRF.
- C. Entry on ABRF by craft person indicates ABRF is void.

SUMMARY:

Exhibits I & II attached show loss of control and failure to conform to sections V and VIII of 10CFR50, Appendix B by both craft and Engineering personnel. The drawing control and design change controls as specified in site Procedures has been neglected such that both these documentation packages cannot support these applicable regulatory requirements.

CONSTRUCTION OPERATION TRAVELER 35-1T95					
① TRAVELER NO.	② EQUIPMENT NO.	③ UNIT NO.	④ QUANTITY	⑤ PAGE/OF	
① AEP101-001-V33R	② SEE 15691-1	③ 15691-1	④ 1	⑤ 1	
⑥ ACTIVITY DESCRIPTION PIPE SUPPORT FABRICATION AND INSTALLATION	⑦ REFERENCE DRAWINGS SEE 15691-1		⑧ 15691-1	⑨ 15691-1	
⑩ SPEC./PROC./ENG./INSTR.	⑪ LOCATION	⑫ 800-6'	⑬ SYSTEM	⑭ AF	
PREPARED BY		DATE	10-26-79	DEPT	Mach.-Eng.
REVIEWED BY		DATE	10-27-79	QA/QC	ENG/ANI
ANALYST REVIEW		DATE	10-29-79	QA/QC	ENG/ANI
OPN/NO.	DEPT.	OPERATION	QA/QC	ENG	ANI
14		Verify material			
15		Fabricate and/or install the pipe support assembly in accordance with the latest pipe support drawing applicable CMC's, attached WOC's and LIAINE-C246.			
20		Prepare surface, prime and coat support assembly in accordance with CCP-30 for Containment Building and AS-30 for B10P.			
21		Install Hilti-Kwik Bolts in accordance with CEI-20			
SD		Install grout in accordance with CCP-16 and CCP-12.			
		OBSERVE ALL QC AND POLO POINTS ON REVERSE SIDE			
		REVISION/RECORDED			
1	10-24-79	INCORPORATE ABRF 00072 R2 00073			
2	8M	INCORPORATE EMR 8417R+ VOID 85-10-27-79			
3	10-2-79	INCORPORATE CMC 8417R R2	JK	SRT	
4	LOT 1048-79	INCORPORATE CMC 17678	10-16-79	10-25-79	
5	JP 10-6-79	INCORPORATE WARC 7936	10-29-79	10-25-79	
6	10-1-79	Refab Due to mislabeling of lost material ABRF 00315	10-3-79	10-21-79	

# COMPONENT SUPPORT MECHANICAL INSPECTIONS

(3) Rework Record

No.	DESCRIPTION	INSPECTION POINTS						(3) Rework Record
		Q	G	S	O	G	Q	
1.	Verify received material	✓	✓	✓	✓	✓	✓	
	A. Transfer Hatch ID Marks to Support Hatch on Support Assembly	✓	✓	✓	✓	✓	✓	
2.	Verify tolerances of cut material	✓	✓	✓	✓	✓	✓	
3.	Verify column line location, plumbness and levelness	✓	✓	✓	✓	✓	✓	
4.	Verify elevation	✓	✓	✓	✓	✓	✓	
5.	Verify size and configuration	✓	✓	✓	✓	✓	✓	
6.	Verify clearance between pipe {or Insulation & structural member}	✓	✓	✓	✓	✓	✓	
7.	Verify travel stop position (In cold position)	✓	✓	✓	✓	✓	✓	
8.	Verify fasteners (size, thread engagement, surface contact lubricant)	✓	✓	✓	✓	✓	✓	
9.	Verify Nut Bolt Installation	✓	✓	✓	✓	✓	✓	
	A. Installation in concrete	✓	✓	✓	✓	✓	✓	
	B. Torque wrench cal. date	✓	✓	✓	✓	✓	✓	
10.	Perform final visual Inspection	✓	✓	✓	✓	✓	✓	
11.	Perform final review and certify to code.	✓	✓	✓	✓	✓	✓	

- NOTES:
- (1) Check marks (✓) entered by QC and All to indicate hold points and inspection points indicated by (X).
  - (2) Hold/inspection points not required indicated by N/A.
  - (3) QC and All initials and dates entered after inspection is completed.
  - (4) The applicable date of revision is entered at top of column "Rework hold" inspection points are established by check marks (✓), (X)'s and N/A as in note (1). Rework inspections are initiated and dated in the column (2).
  - (5) Check marks (✓) entered to indicate satisfactory inspections.
  - (6) Check marks (✓) entered to indicate unsatisfactory inspections.

DRAW AF-1-001-007-Y33R

WT 142

REV C

CMC-3795 R:1

CMO-5091

LAD HARSHAW LINDEN GENE  
LAD HARSHAW LINDEN GENE

## SEISMIC PIPE RESTRAINT CONSISTING OF: ONE

1	10 3/4" O.D. Pipe Clamp Assembly/SK.# AF-1-01-007 -Y33 Shc. 2 of 2./Detail "A", TW=136#.	1	X
2	3/4"x6"x6" (SA-36) Angle, 0'-9" Long/ Detail B., TW=43# Shop Weld to Item #3 As Shown	2	10/18/77 X
3	Carbon Steel (SA515 GR.65 or SA-36) Plate /Section B-B, TW=20# - Shop Weld to Item #4 As Shown	1	10/18/79X
4	W6x15.5 (SA-36) 2'-11 1/2" Long, TW=46# Shop CENTER AND WELD TO ONE OF ITEM #7 Wox15.5 (SA-36) 3'-5" Long, TW= 53#	1	10/18/79 X
5	As Shown	1	10/18/79
6	3/4"x10" Hilti Kwik Bolt Concrete Anchors TW=11#	8	
7	Carbon Steel (SA515 GR.65 or SA-36) Plate /Section A-A, TW= 82# Shop Center S Weld to Items #5 & 8 As Shown Per CMC 8417R,12	2	X
8	1/2"x10" Carbon Steel (SA515 GR.65 or SA-36)-Plate, 0'-10" Long, TW=14# SHOp WELD AS SHOWN TO ITEMS #4 AND 5	1	10/18/79X

PL-ABRF-00072-E00073

2-LWTM 9-2677

## SEISMIC ASSEMBLY SKETCH &amp; ENGINEERING

BUNDLE &amp; TAG

1

MARK# AF-1-001-007-Y33R

1

Per CMC 8417R,12

1

Per CMC 8417R,12

1

PL-ABRF-00315

1

Apply one coat of Carbo Zinc #11 to

above part

ISSUED BY DCC

Approved by: DRDate: 2/2/78

## INSPECTION REPORT

FOR MATERIALS AND OPERATIONS SEE SKETCH NO. SHEET OF

ITT GRINNELL INFORMATION CONDITIONS Fx Fy Fz Mx My Nz  
PIPE HANGER DIVISION DESIGNREF. DRAWING NUMBERS HORIZONTAL 1041  
PIPE : 2222-000-2201/2 COLECTORMENT CENTER 1542  
STEEL : 2222-000-2201/2 V.M.A.C. STATUS AND NOT FAULTED

UPSET

EMERGENCY

FAULTED

REV DATE DRAWN BY DESCRIPTION CUSTOMER Texas Utilities Service, Inc.

✓ ORDER OR CONT. NO.: CP-0046

NCS NAME Comanche Peak 1 &amp; 2

MARK NO. AF-1-001-007-Y33R

SKETCH NO.

SHEET 1 OF 2 REV. O/F

ISSUED FOR CONSTRUCTION

BY DCC

2/2/78

2000

1000

COMANCHE PEAK STEAM  
ELECTRIC STATION (CPSES)

COMPONENT MODIFICATION CARD (CMC)

SERIAL NO. N° 5091

① APPLICATION PIPE

HANGERWELD MOD.



NON-O



DESIGN CHANGE YES X NO

② DWG. NO.

SEE LIST

③ LINE NO./COMPONENT NO.

NA

④ INSTRUCTIONS:

REMOVE

NA

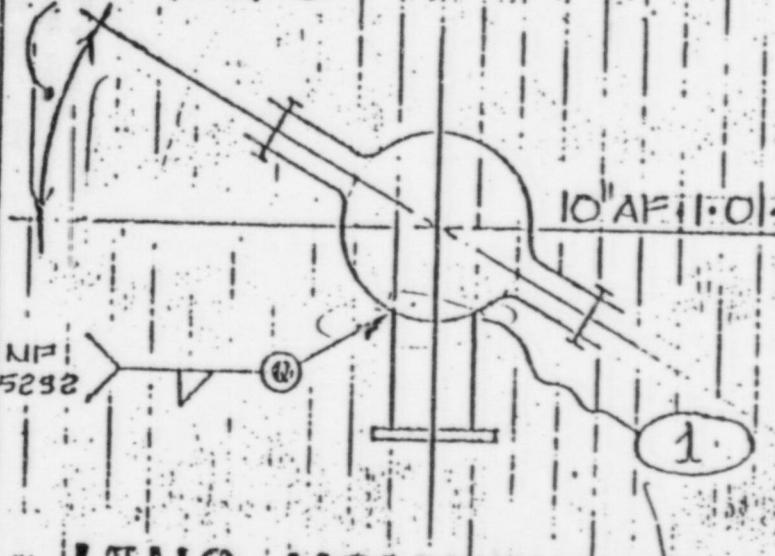
SEE  
FOR ANGLE

⑤ SKETCH

AF-1-001-001-Y33R  
AF-1-001 010-Y33R  
AF-1-001-011-Y33R

IT REV O BRH REV O  
O O O O  
O O O O

SEE CMC-3495  
FOR ANGLE



ADD   
CHANGE THE WELD  
ATTACHING THE  
CLAMP TO THE  
STANCHION FROM  
A SHOP WELD  
TO A FIELD  
WELD.

PHD ISO AF-1-YD-02 REV. 4

⑥ REQUESTED/PREPARED BY:

NPSI INC.

NAME

FABRICATOR

DEPT.

⑦ APPROVED BY:

D. J. Blane 3-6-79 DATE

IT D. J. Blane 3-8-79 DATE

DI D. J. Blane 3/9/79 DATE

DATE

⑧ COMPLETED DATE

CHANGED DATE

⑨ DISTRIBUTION

DCC  
CHNL  
NO.

PME INFO 1

ITT GUNNELL SITE 2

CHAMBERLAIN 1

DOLIG HORNE 1

NPSI (SITE) INFO 1

ISSUED BY HANGER ENGINEERING

ISSUED BY DCC

ARMS  
INDEXED

COMPONENT MODIFICATION CARD (CMC)		DATE	REV.		
		SERIAL NO.	NO. 3795		
<input checked="" type="checkbox"/> APPLICATION: PIPE <input type="checkbox"/> DRAWING NO. 3157 - REV. O <input type="checkbox"/> LINE NO./COMPONENT NO. NA		<input checked="" type="checkbox"/> DESIGN CHANGE YES X NO <input type="checkbox"/>	<input type="checkbox"/> REQUESTED/PREPARED BY: HAL GOODSON NAME ADDRESS DEPT.		
<input checked="" type="checkbox"/> TYPICAL <input type="checkbox"/> CAN NOT BE FABRICATED <input type="checkbox"/> AS DETAILED		<input checked="" type="checkbox"/> APPROVED BY: Charles William Johnson DATE 1/3/77	<input type="checkbox"/> APPROVED BY: Don J. Hause DATE 1/3/77		
<b>INSTRUCTIONS:</b> REMOVE NA CHANGE ANGLE OF PIPE CLAMP AS SHOWN		<b>DRAWINGS</b> AF-1-001-006-Y33R AF-1-001-008-Y33R AF-1-001-009-Y33R AF-1-001-007-Y33R AF-1-001-010-Y33R AF-1-001-011-Y33R	<b>LINES</b> 10-AF-1-02 SAME SAME SAME SAME SAME	<b>ISSUE DATE</b> AF-1-Y9-02 SAME SAME SAME SAME SAME	<b>BY</b> NA NA NA NA NA NA
<b>INSTRUCTION:</b> ADD NA					<b>DISPATCHED</b> DATE PME CHAMBERLAIN MESTI (Austin)
					<b>ISSUED</b> DATE PME CHAMBERLAIN MESTI (Austin)
THIS REVISION voids SUPERSEDED DOCUMENT SERIAL NO. 3155, REV. O 					

## COMANCHE PEAK STEAM UNIT CTR 8-1979

## COMPONENT MODIFICATION CARD (CMC)

PIPE

APPLICATION: SUPPORT WELD MOD.

 YES  NONDESIGN CHANGE: YES NO DESIGN CHANGE: 

REASON FOR CHANGE:

AVOID REBAE

① DWG. NO. 177-2510 Rev 0

④ REASON FOR CHANGE:

177-001-007-Y33R1

② LINE NO./COMPONENT NO.

A INCORRECT FW #

⑤ INSTRUCTIONS:

DOVE 

2 REQ'D.

DELETE SWING &amp; 10 A

ITEM 2

③

ITEM 3

ITEM 4

ITEM 5

ITEM 6

ITEM 7

ITEM 8

ITEM 9

ITEM 10

ITEM 11

ITEM 12

ITEM 13

ITEM 14

ITEM 15

ITEM 16

ITEM 17

ITEM 18

ITEM 19

ITEM 20

ITEM 21

ITEM 22

ITEM 23

ITEM 24

ITEM 25

ITEM 26

ITEM 27

ITEM 28

ITEM 29

ITEM 30

ITEM 31

ITEM 32

ITEM 33

ITEM 34

ITEM 35

ITEM 36

ITEM 37

ITEM 38

ITEM 39

ITEM 40

ITEM 41

ITEM 42

ITEM 43

ITEM 44

ITEM 45

⑥ SKETCH

177-2510 Rev 0

177-001-007-Y33R1

⑦ APPROVED BY:

HAC Godson

NAME

House Eng.

DEPT.

FOR INFO

DATE

J. Chapman 2/11/79

DATE

A. Elam 10-3-79

DATE

J. Chapman 2/11/79

DATE

J. Chapman 2/11/79

DATE

J. Chapman 2/11/79

DATE

J. Chapman 2/11/79

⑧ THIS REVISION VOID'S

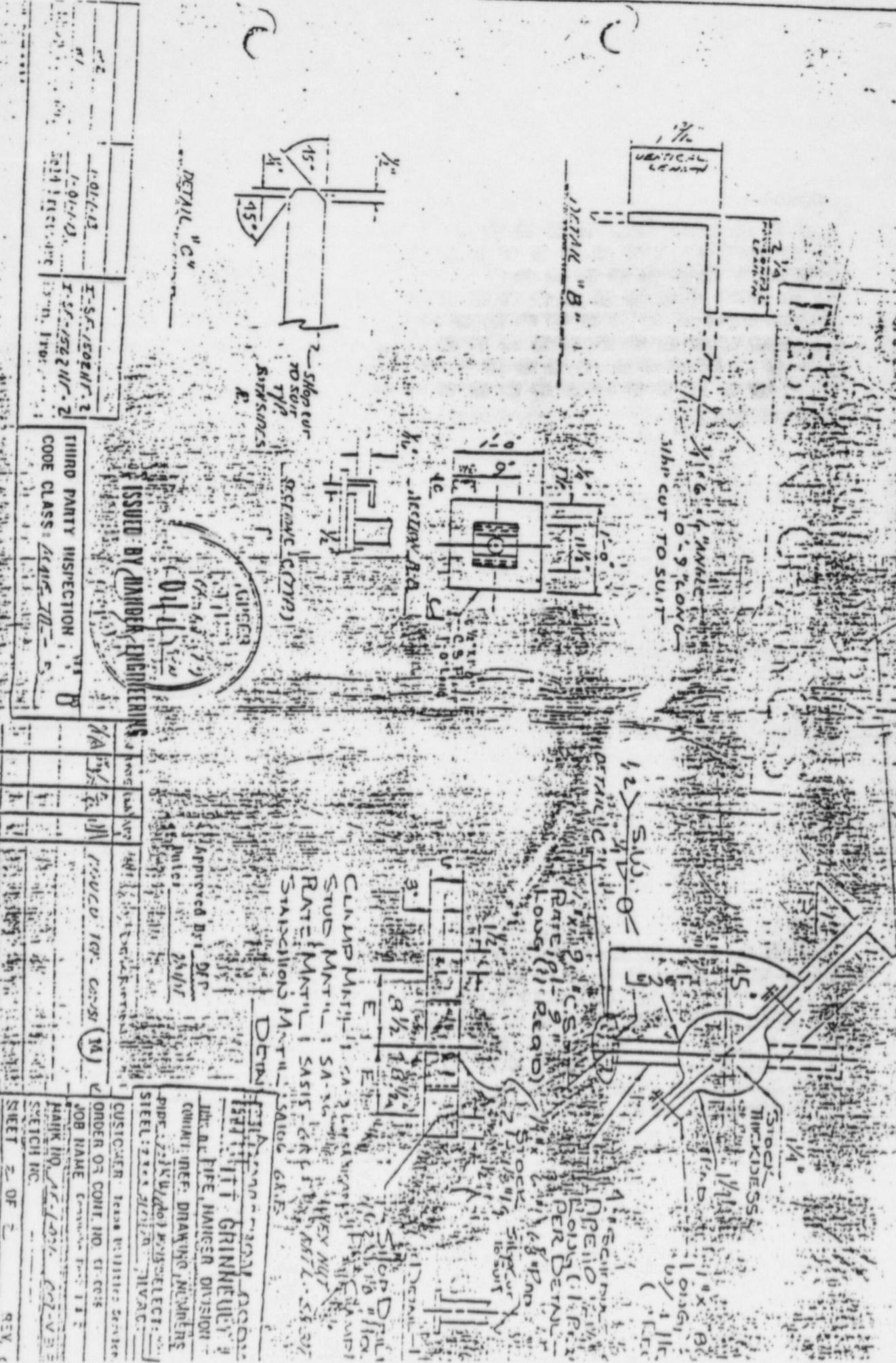
AND SUPERSEDES

THIS DOCUMENT SERIAL NO.

8417

L-TRAVELER DEPARTMENT

SHEET BY Y. DUG



DETAIL "C"

SHOEHORN  
NO SURF  
SURFACE  
FINISHES

CLAMP MATER.  
STUD MATER.: SA-524  
RATE MATER: SAE 4340  
STAINLESS MATER: 316L

DETAILED

APR 15 1975

COMMITTEE: DRAWING NUMBER  
JOB NO. 11-1001-100-111  
PIPE: 2 1/2" x 1/2" x 1/8" SELECT  
STEEL: 2 1/2" x 1/2" x 1/8" PLATE  
CUSTOMER: 1000 1000 1000 1000 1000  
ORDER OR CONT. NO. 01-0001  
JOB NAME: GRINHEUER  
HANK NO. 11-1001-100-111  
SKETCH NO. 1  
SHEET 2 OF 2 REV. C

ITEM	DESCRIPTION	QTY
1	SHOEHORN	1
2	SURFACE FINISHES	1
3	STAINLESS MATER	1

THIRD PARTY INSPECTION

CODE CLASS: CLASS 100

INSPECTOR: John. Inc.



16266

WDC Serial #

Drawing SAF-F001-007-V33R

Line A/A

## MULTIPLE WELD DATA CARD

S+7m R+527 HT V Lwm 9-25-79

ITEM NO.	WPS NO.	REV.	PICN	WELD FILLER MATERIAL	WELD NO.	P.NO.	FABRICATION CODE CLASS/REC STD
NA	11032	6	0	E7018	1	1-1	ASME SEE -

NOTES: 1) Applicable QC/ANI points shall be indicated by checkmark 

2) ANI inspection points indicated by (X).

3) Denote Satisfactory inspections by an "S"; Unsatisfactory inspections by a "U".

## OPERATION # OPERATIONS

1	CLEANED				1		
2	ALIGNMENT				8		
3	FINAL VT				9		
4					10		
5					11		
6					12		

## PRODUCTION RELEASE

WELD NO.	OPER- ATION	HOLDPOINTS			CONST.	SAT. or UNSAT.			QC or WT	NOE CERT LEVEL	INDP/	SIZE # /
		WT	QC	ANI		SAT.	UNSAT.	ANI				
1	1	NA	X	NC		5	8	10/19/79	II			200
	2	1	V	V		5	8	10/19/79	II			10/9/79
	3	1	V	V								

Reviewed: B.P. 8-7-79 JK 8-7-79 SLT AD 8-9-79

REDACTED

REDACTED

WE

QC

ANI

Approval signatures shall be affixed on the line immediately below the last  
line in each sequence

WCC Serial No. 10405-5501n

Drawing No. AF-L-001-007-Y33R

## WELD FILLER MATERIAL LOG

Weld No. 1-2, 5

OMAHA PEAK STEAM  
ELECTRIC STATION CPS/E&I

COMPONENT MODIFICATION CARD (CMC)

SERIAL NO. 17671

① APPLICATION SUPPORT

② DWG. NO. 11005.01-BR001

③ LINE NO./COMPONENT NO. 13352

④ NON- DESIGN CHANGE/DEVIATION

⑤ REASON FOR CHANGE REVERSE FABRICATION

MIS-PRINT

⑥ INSTRUCTIONS

REMOVE  N/A

⑦ SKETCH

N/A

REVERSE  
FABRICATION

MIS-PRINT

⑧ REQUESTED/PREPARED BY

LARRY TOWNLEY / LAS

NAME /  
DEPT. MANAGER

⑨ APPROVED BY

O.A. Phillips 10-17-77

DATE

⑩ DISTRIBUTION

DCC CNTR NO. 6

NPDS SITE

INFO

INFO

INFO

G0872

"AS BUILT" RECORD FORM

5/16" - 4 1/16" - 4 3/4" - 1 1/4"

1	2	3	4	5	6
1 1/8	10 1/2" x 10 1/2"	1 1/2" x 1 1/2"	1 1/2" x 1 1/2"	1 1/2" x 1 1/2"	1 3/8" x 1 3/8"
5/16"	290 lb plate & top 2 in. flange bottom 1 1/2" thick	15 lb plate & top 1 1/2" thick	15 lb plate & top 1 1/2" thick	15 lb plate & top 1 1/2" thick	15 lb plate & top 1 1/2" thick
6 1/16"	10 1/2" x 10 1/2" x 1 1/2" thick	10 1/2" x 10 1/2" x 1 1/2" thick	10 1/2" x 10 1/2" x 1 1/2" thick	10 1/2" x 10 1/2" x 1 1/2" thick	10 1/2" x 10 1/2" x 1 1/2" thick

1 3/16" - 4 13/16" - 4 13/16" - 1 3/16"

1. Hanger Number AF-1-001-007-433R Rev. O

2. Indicate Plate Orientation on above sketch

3. Plate Material Carbon Steel (SA 515 CR 65 or SA 34)

4. Plate Thickness 1"

5. Hilti Bolt Size 3/4" x 10"

6. If hanger has more than one plate; indicate which plate is covered. Attach additional forms for other plates as required.

Pipe Support Foreman

Date

10/23/79

QC Inspector

Date

Field Mechanical Originator

Date

Revision 0  
September, 1979

FOR INFORMATION ONLY

COMANCHE PEAK STEAM  
ELECTRIC STATION (CPSE) 1

COMPONENT MODIFICATION CARD (CMC)

SERIAL NO.

17678

① APPLICATION BLANK

② DWG NO. 15100-10000

③ REASON FOR CHANGE

④ DESIGN CHANGE IN A

⑤ PIPING

⑥ SKETCH

⑦ INSTRUCTIONS

⑧ ADD

⑨ CANCELLATION

⑩ DATE

⑪ APPROVED BY:

⑫ DATE

⑬ REQUESTED/PREPARED BY:

⑭ DATE

⑮ DATE

⑯ DATE

⑰ DATE

⑱ DATE

⑲ DATE

⑳ DATE

⑳ DATE

⑳ DATE

⑳ DATE

⑳ DATE

⑳ DATE

NON  DESIGN CHANGE/DEVIATION

REASON FOR CHANGE

IN A

PIPING

SKETCH

INSTRUCTIONS

ADD

CANCELLATION

DATE

APPROVED BY:

DATE

REQUESTED/PREPARED BY:

DATE

WDC Date

10-16-79

Drawing # AF-1-001-007-Y33P

Line # NA

## MULTIPLE WELD DATA CARD

ITEM NO.	WPS NO.	REV.	ICN	WELD FILLER MATERIAL	WELD NO.	P.NO.	FABRICATION CODE 3M CLASS/ACC STD
NA	11032	6		E7012	2-3	1-1	ASME II

NOTE: 1) Applicable QC/AWL hold points shall be indicated by checkmark ✓

2) AWL inspection points indicated by (X)

3) Denote Satisfactory inspections by an "S"; Unsatisfactory inspections by a "U"

## OPERATION # - OPERATIONS

1	CLEANED	7	
2	ALIGNMENT	8	
3	FINAL VT	9	
4		10	
5		11	
6		12	

## PRODUCTION RELEASE

WELD NO.	OPER- ATION	HOLDPOINTS			CONST.	SAT. OF INSPECTION RESULTS (SIGN & DATE)	NO. OF HOLD LEVEL	REV.	MTSE # / CALIB. DUE DATE
		WT	QC	AWL		UNSAT.	QC or WT		
1	NA	✓	NC		-S	✓ 10-16-79	II		10-16-79
2	✓	✓			-S	✓ 10-16-79	II		
3	✓	✓	✓		-S	✓ 10-16-79	II	✓	
4	✓	✓			-S	✓ 10-16-79	II		
5	✓	✓	✓		-S	✓ 10-16-79	II		
6	✓	✓			-S	✓ 10-16-79	II		
7	✓	✓	✓		-S	✓ 10-16-79	II		
8	✓	✓			-S	✓ 10-16-79	II		
9	✓	✓	✓		-S	✓ 10-16-79	II		
10	✓	✓			-S	✓ 10-16-79	II		
11	✓	✓	✓		-S	✓ 10-16-79	II		
12	✓	✓			-S	✓ 10-16-79	II		
13	✓	✓	✓		-S	✓ 10-16-79	II		
14	✓	✓			-S	✓ 10-16-79	II		
15	✓	✓	✓		-S	✓ 10-16-79	II		
16	✓	✓			-S	✓ 10-16-79	II		
17	✓	✓	✓		-S	✓ 10-16-79	II		
18	✓	✓			-S	✓ 10-16-79	II		
19	✓	✓	✓		-S	✓ 10-16-79	II		
20	✓	✓			-S	✓ 10-16-79	II		
21	✓	✓	✓		-S	✓ 10-16-79	II		
22	✓	✓			-S	✓ 10-16-79	II		
23	✓	✓	✓		-S	✓ 10-16-79	II		
24	✓	✓			-S	✓ 10-16-79	II		
25	✓	✓	✓		-S	✓ 10-16-79	II		
26	✓	✓			-S	✓ 10-16-79	II		
27	✓	✓	✓		-S	✓ 10-16-79	II		
28	✓	✓			-S	✓ 10-16-79	II		
29	✓	✓	✓		-S	✓ 10-16-79	II		
30	✓	✓			-S	✓ 10-16-79	II		
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37	✓	✓	✓		-S	✓ 10-16-79	II		
38	✓	✓			-S	✓ 10-16-79	II		
39	✓	✓	✓		-S	✓ 10-16-79	II		
40	✓	✓			-S	✓ 10-16-79	II		
41	✓	✓	✓		-S	✓ 10-16-79	II		
42	✓	✓			-S	✓ 10-16-79	II		
43	✓	✓	✓		-S	✓ 10-16-79	II		
44	✓	✓			-S	✓ 10-16-79	II		
45	✓	✓	✓		-S	✓ 10-16-79	II		
46	✓	✓			-S	✓ 10-16-79	II		
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48	✓	✓			-S	✓ 10-16-79	II		
49	✓	✓	✓		-S	✓ 10-16-79	II		
50	✓	✓			-S	✓ 10-16-79	II		
51	✓	✓	✓		-S	✓ 10-16-79	II		
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53	✓	✓	✓		-S	✓ 10-16-79	II		
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56	✓	✓			-S	✓ 10-16-79	II		
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58	✓	✓			-S	✓ 10-16-79	II		
59	✓	✓	✓		-S	✓ 10-16-79	II		
60	✓	✓			-S	✓ 10-16-79	II		
61	✓	✓	✓		-S	✓ 10-16-79	II		
62	✓	✓			-S	✓ 10-16-79	II		
63	✓	✓	✓		-S	✓ 10-16-79	II		
64	✓	✓			-S	✓ 10-16-79	II		
65	✓	✓	✓		-S	✓ 10-16-79	II		
66	✓	✓			-S	✓ 10-16-79	II		
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103	✓	✓	✓		-S	✓ 10-16-79	II		
104	✓	✓			-S	✓ 10-16-79	II		
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107	✓	✓	✓		-S	✓ 10-16-79	II		
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127	✓	✓	✓		-S	✓ 10-16-79	II		
128	✓	✓			-S	✓ 10-16-79	II		
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130	✓	✓			-S	✓ 10-16-79	II		
131	✓	✓	✓		-S	✓ 10-16-79	II		
132	✓	✓			-S	✓ 10-16-79	II		
133	✓	✓	✓		-S	✓ 10-16-79	II		
134	✓	✓			-S	✓ 10-16-79	II		
135	✓	✓	✓		-S	✓ 10-16-79	II		
136	✓	✓			-S	✓ 10-16-79	II		
137	✓	✓	✓		-S	✓ 10-16-79	II		
138	✓	✓			-S	✓ 10-16-79	II		
139	✓	✓	✓		-S	✓ 10-16-79	II		
140	✓	✓			-S	✓ 10-16-79	II		
141	✓	✓	✓						

DOC Serial # 43339

Drawing # AF-001-007-Y33R

## MULTIPLE WELD DATA CARD

F0A Line # NA

STEP NO.	WPS NO.	REV.	ICN	WELD FILLER MATERIAL	WELD NO.	PIN# / FABRICATION CODE & CLASS/ACC STO.
NA	11032	(	E7018	2A	1-1	3 ASME III -

NOTES: 1) Application QC/ANL check points shall be indicated by checkmark ✓

2) ANL inspection points indicated by (X).

3) Denote Satisfactory inspections by an "S"; Unsatisfactory inspections by a "U".

## OPERATION # OPERATIONS

1	CLEANING	7
2	ALIGNMENT	8
3	FINAL VT	9
4		10
5		11
6		12

## PRODUCTION RELEASE

WELD NO.	OPER- ATION	HOLE POINTS			CONST.	SAT. or INSPECTION RESULTS (SIGN & DATE IN USEP)				HOLE # / LEVEL	CALIB. DATE
		WT	QC	ANL		UNSAT.	QC or WT	NCE CERT.	ANL		
2A	WGT	✓	N	C							
2	WGT	X									
3	WGT	✓	N	C							

Knowles, B. P. Dated 10-25-79 JK 10-26-79 SRT 10-25-79

WE QC ANL

Approval signatures shall be affixed on the line immediately below the last step in each sequence.



COMANCHE PEAK STEAM  
ELECTRIC STATION (CPSES)

WELD ADDITION / REMOVAL CARD

(1) APPLICATION: PIPE SUPPORT

(2) DWG NO.: AF-1-001-007-Y33R

(3) WELDS ADDED/REMOVED  
REMOVED

(4) REASON FOR CHANGE: POET BROKEN



(5) SKETCH:



APPROVAL SIGNATURE: John M. Johnson  
APPROVAL DATE: 10/20/01

00315

TOP

**"AS BUILT" RECORD FORM**

ELEVATION DRAWING

N

 $\frac{1}{4}$     $\frac{4\frac{3}{4}}{4}$     $\frac{8\frac{3}{4}}{8}$     $\frac{1}{4}$ 

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$\frac{3}{2}$	1750	10 27-3-67	10 000 1072	1500
---------------	------	------------	-------------	------

$\frac{4}{8}$	1750	10 27-3-67	10 000 1072	1500
---------------	------	------------	-------------	------

$\frac{1}{16}$	1750	10 27-3-67	10 000 1072	1500
----------------	------	------------	-------------	------

Kicker

Plate

--	--	--	--

--	--	--	--

--	--	--	--

--	--	--	--

 $\frac{1}{8}$     $\frac{4\frac{3}{4}}{4\frac{3}{8}}$     $\frac{4\frac{1}{2}}{4\frac{1}{2}}$     $\frac{5\frac{1}{2}}{5\frac{1}{2}}$ 

Hanger Number: AF-1-001-007-133R Rev. 0

2. Indicate Plate Orientation on above sketch

3. Plate Material C-S SA515 68-125 or SA316

4. Plate Thickness

5. Hilti Bolt Size 3/4x10

6. If hanger has more than one plate, indicate which plate is covered. Attach additional forms for other plates as required.

Pipe Support Foreman \_\_\_\_\_ Date \_\_\_\_\_

QC Inspector \_\_\_\_\_ Date \_\_\_\_\_

Field Mechanical Originator \_\_\_\_\_ Date \_\_\_\_\_

Revision 0 \_\_\_\_\_ September, 1979 \_\_\_\_\_

FEDERAL AVIATION ADMINISTRATION

Record

FOR INVESTIGATION

established  
in the

(x) kg/p

ITEM NO.	DESCRIPTION	QTY	UNIT	DATE	REMARKS
1	1 1/2" x 1 7/8" Carbon Steel Plate (SA-575 GR. 65 or SA-513)	2			x
2	2 1/2" x 7" Long. 72-2071 CMC 7401 R.1	2	cum	10/1/79	x
3	6" x 6" x 1 1/2" Structural Tubing (A-500 GR B) 3'-6"	2	cum	10/1/79	x
4	Long. TW-2414				
5	1/4" x 13 (SA-36) 2'-0 1/8" Long. TW-524	2	cum	10/1/79	x
6	1 1/4" x 12" Super Hilti Wedge Anchors (1 1/4")	3			x
7	CMC 7401				

**\* ALL MATERIAL BY FIELD**

SEISMIC ASSEMBLY SKETCH AND ENGINEERING

1

BUNDLE AND TAG

1

MARK # SJ-1-010-004-A33R

Apply one coat of Carbo Zinc #11 to  
 above mat'l except th'ds which shall  
 be coated w/n rust preventative.

5 1/2" x 12" HILTI BOLTS

per CMC

4

1/2" x 1 1/2" x 3 1/2" CS. H (SA-315 GR. 65 OR SA-30)

+

7 3/4" x 3" x 3' GUSSET PLATES (SA-315 GR. 65 OR SA-30)

2

P-274 PMG 7401 R.2 per ABRF F00062

+

8 per ABRF F00062

1

cum 9-25-79

Item 8 per CMC 7401 R.1 is  
 SAME SPACING AS ABRF F00062

END

FOR INVESTIGATION

1 1/2" x 1 7/8" x 12" CARBON STEEL  
 1 1/2" x 1 7/8" x 3 1/2" CS. H  
 3/4" x 3" x 3' GUSSET PLATES  
 1 1/2" x 1 7/8" x 3' CS. H  
 1 1/2" x 1 7/8" x 3' CS. H

Approved By: DGP

Date: 10/1/79

QUAN SHIR

F.O.S. L C.S. FR.M. SEC.

FOR MATERIALS AND OPERATIONS SEE SKETCH NO. SHEET OF



Brown &amp; Root, Inc.

Engineering &amp; Construction

CONDITIONS

Fx

Fy

Fz

Mx

My

Mz

DESIGN

NORMAL &  
UPSET

4743

—

—

—

—

—

EMERGENCY

±5739

FAULTED

—

REF. DRAWING NUMBERS

PIPE: M-0704 REV. II

ELECT: M-0704-01 REV. I

STEEL: SJ-0704 REV. II

HV.A.C.: M-0752 P.D. 5

FAULTED

—

REV.	DATE	CHK	APP	DESCRIPTION	CUSTOMER	Texas Utilities Service, Inc.	
5	10/1/79	6/4	10/3/79	ISSUE FOR CONST FIELD FAB	ORDER OR CONT. NO.	LF-00040	
				F.W. 1-6	JOB NAME	WESBROCK TULSA LINE	
					MARK NO.	SJ-1-010-004-A33R	
					SKETCH NO.		

## COMPONENT MODIFICATION CARD (CMC)

SERIAL NO.

No. 7401 Rev 2

APPLICATION: D112E SCREWED WELD MOD.   NON-O  DESIGN CHANGE: YES  NO

DWG. NO. 1111 New. 125A Rev. O

1-1-010-009-033R

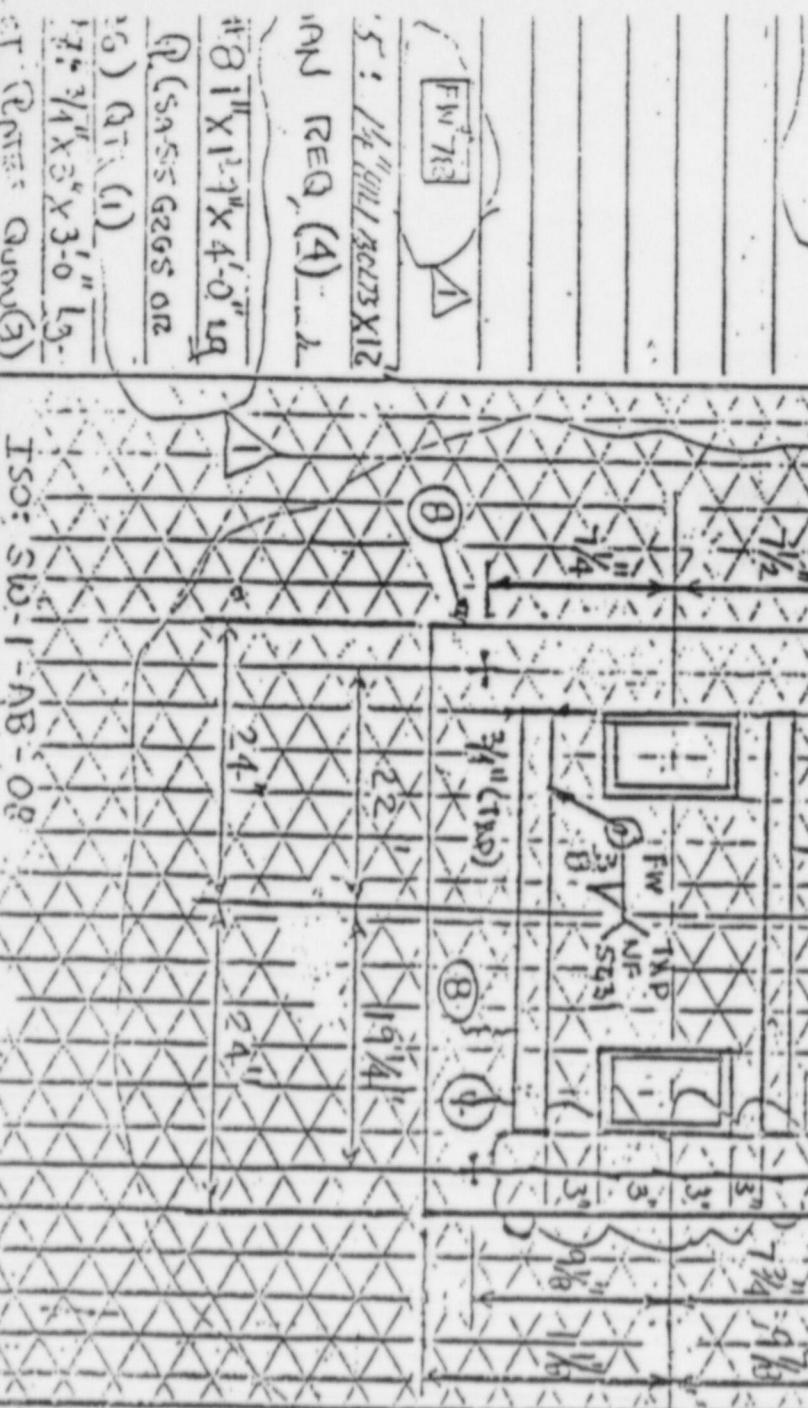
LINE NO./COMPONENT NO.

1/2"  
ADDED WELD NO'S-AND REUSED BASE P.

## INSTRUCTIONS:

OVE 1/2"1/4" DELETE  
ONE ITEM

(Scrap)

① REQUESTED/PREPARED BY:  
Pete Mason

NAME

DATE

DEPT.

Pee Wee East Const.② APPROVED BY A.E. 4-26-79

DATE

Gus Rose

DATE

6-22-79

DATE

HIT

DATE

DATE

APR 31 1979

DATE

③ DISTRIBUTION

DATE

DATE

DCC  
CNTL  
NO.

④ INFORMATION FOR

ISSUED BY DCC  
THIS Revision voids  
and supersedes  
document serial no.  
CMC 7401 Rev 2Q.C. 50% Gross or  
G) Q.T. (1)

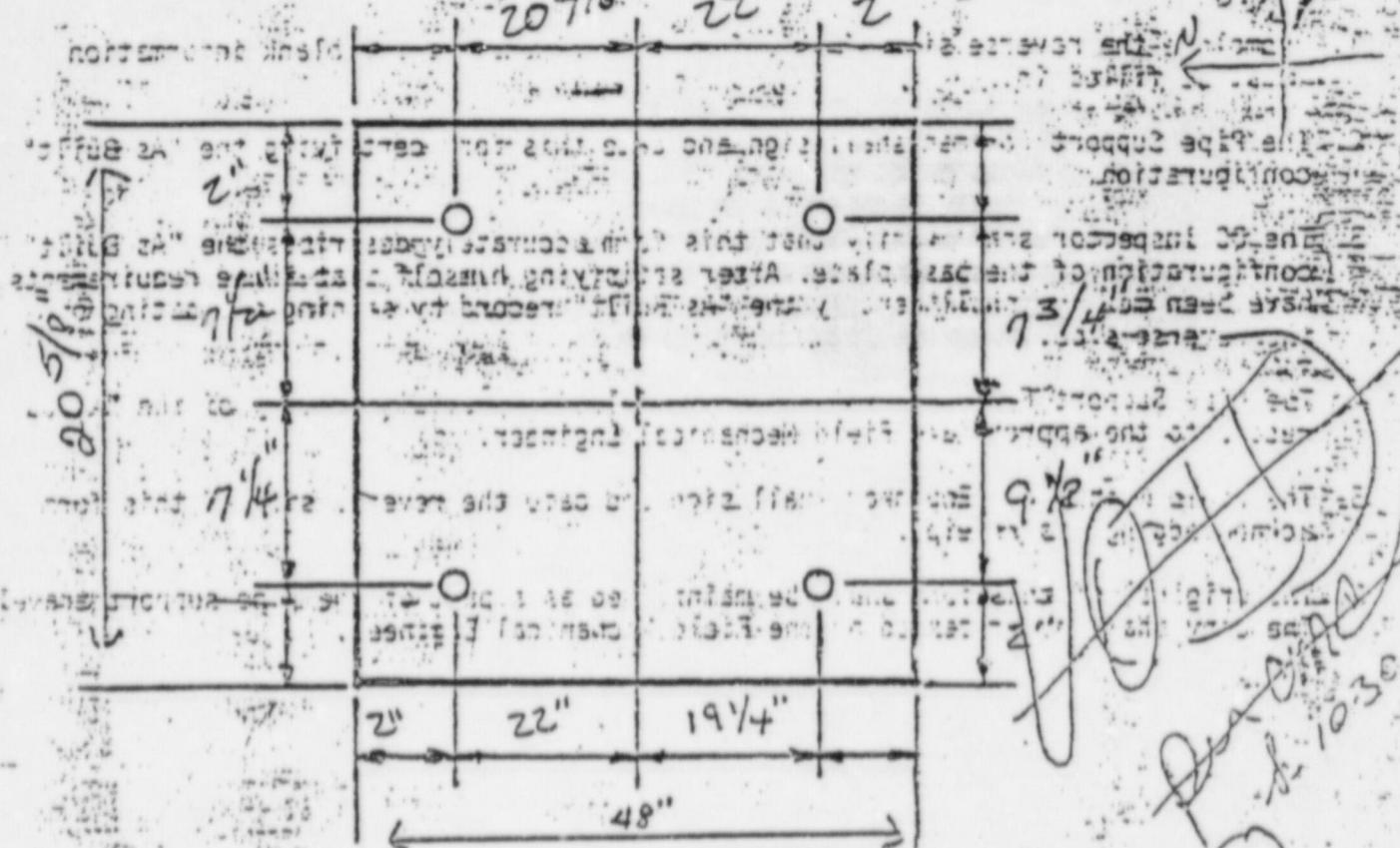
P: 1/4" X 3" X 3'-0"

C.R. Q.T. : Q.T. (2)  
Gross G.C. 100% 50-24)

## AS BUILT RECORD FORM

FOR INFO

00062



1. Hanger Number SW-1-010-004-A33R Rev. 0

2. Indicate Plate Orientation on above sketch

3. Plate Material Carbon Steel (SA515 GR65 or SA36)

4. Plate Thickness 1"

5. Hilti Bolt Size ~~1/2" x 12"~~ 1/4" x 12" (B)

6. If hanger has more than one plate, indicate which plate is covered. Attach additional forms for other plates as required.

Pipe Support Foreman

Date

QC Inspector

Date

Field Mechanical Originator

Date

vision 0  
ember, 1979

FOR INFORMATION ONLY



QA RECORD

Brown &amp; Root, Inc.

QUALITY ASSURANCE DEPARTMENT  
NONCONFORMANCE REPORT (NCR)

(1) NCR NO. M-1802 RI

PAGE 1 OF 28

PROJECT CPSES		JOB NO. 35-1195			
(2) UNIT	STRUCTURE/SYSTEM	COMPONENT	TAG/ID NUMBER	LOCATION OR ELEVATION	RIR NO.
1	Service Water Aux. Feedwater	Component Support	SW-1-010-004-A33R AF-1-001-007-Y33R	N/A	N/A
(3) NONCONFORMING CONDITION	ASME Section III			4451	(4) TREND CATEGORY
(5) DOCUMENT VIOLATED:		REV N/A	PARA 4452		G-3

See attached sheet.

FOR INFORMATION

Rev. 1 Changed document violated and delete summary.

(6) REPORTED BY: J. Patton	(6) DATE: 11 / 5 / 79	(9) REVIEW/APPROVAL: <i>J. Michels</i>	(10) DATE: 11/14/79
(7) PREPARED BY: R. Michels	(8) DATE: 11 / 5 / 79	(11) ISSUED BY: <i>R. Michels</i>	(12) DATE: 11/14/79
(13) DISPOSITION ASSIGNED TO: D. C. Frankum	(14) DUE DATE: 11 / 19 / 79	(15) CORRECTIVE ACTION REQUEST CAR NO. <input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required	(16) ASME CODE CLASS: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(17) DISPOSITION: REWORK _____	REPAIR _____	SCRAP _____	

See Attached

SEE CPPA-3572 (ATTACHED)

(18) CONSTRUCTION REVIEW/APPROVAL: <i>J. Brown</i>	(19) DATE: 11/20/79	(20) QA/QC REVIEW APPROVAL: <i>R. Michels</i>	(21) DATE: 12/10/79						
(22) ENG. REVIEW/APPROVAL: <i>David P. Dale</i>	(23) DATE: 12/11/79	(24) AM REVIEW APPROVAL: <i>Stephen R. Limbs</i>	(25) DATE: 12/11/79						
(26) VERIFICATION: <input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory <input type="checkbox"/> Not Req'd	(33) REMARKS: QA RECORD								
(27) Q.A.CC. ENGR/NSPR VERIFICATION: <i>R. Michels</i>	(28) DATE: 12/11/79	<table border="1"> <tr> <td>RTN</td> <td>QA REVIEW</td> </tr> <tr> <td><input type="checkbox"/></td> <td>12/14/79</td> </tr> <tr> <td>EN</td> <td>/</td> </tr> </table>		RTN	QA REVIEW	<input type="checkbox"/>	12/14/79	EN	/
RTN	QA REVIEW								
<input type="checkbox"/>	12/14/79								
EN	/								
(29) CONCURRENCE: <i>Stephen R. Limbs</i>	(30) DATE: 12/11/79								
(31) QA REVIEW/CLOSURE: <i>D. Jackson</i>	(32) DATE: 12/13/79								
FOIA-85-59									
SUBFILE NO. M-1802 RI									

R147

NCR No. M-1802 R /  
ATTACHMENT  
pg. 2 of 28

I. DRAWING AF-1-001-007-Y33R

- A. Revision 4 of support traveler required WARC 1936 to be incorporated. This WARC was issued to replace FW-2 with FW-2A. The original plate per ABRF 00073 should have been used; it was not. ABRF 0073 is now missing from the traveler package.
- B. Item #11 has been added on the bill of materials per ABRF 000315. ABRF's cannot be used to add or delete item numbers.
- C. CMC 8417 R2, 10-3-79, Instruction 5, removed item 7 and added items 9 & 10. Item 7 was QC verified on 9-26-79 per ABRF 00072 and 73. Weld 2 & 3 were made on 10-18-79 using plates called out on ABRF's 00072 & 73. CMC 8417 required removal of item 7 and replaced with items 9 & 10. This was not accomplished and items 9 & 10 were not fabricated. Craft personnel failed to follow design changes as per CMC 8417.
- D. Sheet one of drawing AF-1-001-007-Y33R lists welds 3 thru 9. Welds are not numbered and there is one more number assigned than needed. The drawing is unclear as to whether the welds are vendor or B&R welds.
- E. WMF Log has line drawn through entry indicating rod was not consumed, however, entry shows 2 rods consumed. Line entry is not initialed and dated.
- F. CMC 17671 is unclear; does not define reasons for change or clarify.
- G. CMC 17678 dated 10-18-79 calls for shims to be installed between support and wall. CPP 1993, dated 10-11-79 deleted shimming and specified grout instead.

II. Drawing SW-1-010-004-A33R

- A. Item 6 fabricated and verified on 9-25-79 per ABRF 00062. CMC 7401, R1, 9-26-79, deleted item 6 and added item 8. Construction personnel lined through item 6 and change it to item 8. Item 6 is being used; it is different than item 8 and not per CMC-7401.
- B. Hilti bolt size has been changed on the ABRF.
- C. Entry on ABRF by craft person indicates ABRF is void.

FOR INFORMATION ONLY

NCRM 1802 R1

Pg. 3 & P28

DISPOSITION

- IA. ABRF 0073 was voided by craft traveler dept. as the result of a hilti bolt being broken during plate installation. ABRF 00315 was issued to refabricate the plate (item 11). The plate, item 11, and the FW 2A, have not been made. ABRF 00073 was removed by the craft traveler dept. and is being held in the traveler dept. files.
- IB. Item 11 was added to the bill of material by the craft traveler dept. via an ABRF; this is not per procedure; personnel have been instructed to discontinue this practice and follow procedure.
- IC. Items 9 & 10 were incorrectly listed as item 7 on the bill of material and accepted by QC. They were listed as items 9 & 10 per CMC 8417 R2. Craft personnel have been instructed (See IB above) to follow procedures.
- ID. Drawing No. AF-1-001-007-Y33R indicates that welds No. 3 thru 9 are vendor shop welds. This item is not a field nonconformance as these weld numbers were not generated on site.
- IE. Field personnel crossed out the second to last entry on the WFXML by mistake. This is to be considered a valid entry except that the 10/22/79 date was entered on the wrong line. FW No. 1 was tacked welded on 10/19/79 with (2) rods consumed and (3) rods returned the last entry is correct in that (5) rods were withdrawn on 10/22/79 and consumed in the completion of FW No. 1. Responsible individuals have been instructed as to the proper method of document correction.
- IF. CMC No. 1761 shows the reorientation of item No. 4 which was misfabricated by the vendor. This CMC was generated to approve vendors misfabrication.
- IG. It is the discipline engineers prerogative to generate a CMC design change in variance from engineering guidelines.

However in this specific instance grout will be used as per CPP-1993.

**FOR INFORMATION ONLY**

{ NCL M-18 02 e1  
PG. 4 of 28 }

II. DRAWING SW-1-010-004-A33R

II.A Item No. 6 and No. 8 are identical plates. ABRF 0062 was voided because it matched CMC #7401. The QC inspector requested that ABRF 0062 not be voided since he had already signed off item no. 8 on the Bill of Material (Per ABRF 00062).

The "VOID" note on the ABRF was lined thru and initialed per the requirements of CPM 6.9.

II.B Prior to QC Field verification, 1"x12" Hilti's were shown on ABRF 0062 in error. The correct size Hilti's as shown on CMC #7401 Rev. 2, was shown on the ARBF (0062).

II.C See II.A (Above)

FOR INFORMATION ONLY

**Gibbs & Hill, Inc.**

CPPA-3572

JOB NO. 35-1195

R E C E I V E

DEC 04 1979

R E C E I V E

TO: J. T. Merritt, Jr.  
FROM: R. E. Heim  
SUBJECT: NCR- M-1802 R1

DATE: December 8, 1979  
JOB NO: \_\_\_\_\_  
REF. NO: \_\_\_\_\_

5  
ARMS  
INDEXED  
DATE  
Interoffice Memorandum  
NCR M-1802 R1  
Pg. 5 of 28

COMANCHE PEAK STEAM ELECTRIC STATION  
1981-83 2300 MW INSTALLATION  
NCR- M-1802 R1

By copy of this letter we are advising Brown & Root that the "Use As Is" disposition on NCR No. M-1802 R1 is acceptable.

B & R DCC DIST.

*R. E. Heim*  
R. E. Heim  
Resident Engineer

DRH  
REH/DRH/DHW/jg  
cc: ARMS

PROJECT MGR.	/
PROJECT ENGR.	/
QA MGR.	/
PROJECT Q.C. ENGR.	/
TURCO PA	/
PROJECT GEN. MGR.	/
ARMS	/
	/
	/
	/
CPPA	/



BROWN & ROOT, INC.

P.O. BOX 1001 GLEN ROSE, TEXAS 76043

INLET 11/1/79  
Pg. 6 of 28

MESSAGE

REPLY

To

TRAVELER DEPT.  
ATTN: ALL PERSONNEL

DATE

12-11-79

DATE

This is to advise you of the requirements for posting S.O.M. on travelers, and the proper use of ABLE's, FAW, MEI ID and Engineering guidelines. ~~place~~<sup>PAY</sup> Close attention to the proper posting of S.O.M. and

Do not assign item # to ABLE's and insure that all entries corrected have been properly initialed and dated.

BY

SIGNED

*Loyd Corlett, Traveler Supervisor*

INSTRUCTIONS TO RECEIVER:

1. SEND TO JOB FILE      2. SEND WHITE AND PINK COPIES WITH CARBON INTACT.

1. WRITE REPLY.      2. DETACH STUB, KEEP PINK COPY, RETURN WHITE COPY TO SENDER.

FOR INFORMATION ONLY

N 11-18028  
P 974128

CONSTRUCTION, OPERATION TRAVELER 35-1T95			
① TRAVELER NO.	EQUIPMENT NO.	② UNIT NO.	④ QUANTITY
AERCO 001EV332	SEE		1 PAGE / OF
③ ACTIVITY DESCRIPTION	REFERENCE DRAWINGS		
PIPE SUPPORT FABRICATION AND INSTALLATION	SEE WORKED		
⑤ SPEC / PROC / ENG. INSTR.	LOCATION	800-6'	⑩ SYSTEM
			AER
PREPARED BY	DATE	10-26-79	DEPT. Mech. Eng.
REVIEWED BY	DATE	10-27-79	QA/QC Eng. Ani.
MAN REVIEW	DATE	10-29-79	

OP. NO.	DEPT.	OPERATION	QA/QC ENG	QA/QC ANI
1	TM	Verify material		
2	TM	Fabricate and/or install the pipe support assembly in accordance with the latest pipe support drawing applicable CMC's, attached WOC's and TAINE C2MS.		
3	SD	Prepare surface, prime and coat support assembly in accordance with CCP-30 for Containing Building and AS-30 for 810 P.E.		
4	SM	Install Hilti-Kwik Bolts in accordance with CEI-20		
5	SD	Install grout in accordance with CER-16 and CCP-12		
		OBSERVE ALL QC/ANI POLO POINTS ON REVERSE SIDE		

REFERENCE RECORDS				
A	77499	INCO FORK ABRF-00072		
A	8M	00073		
A	8M	INCORPORATE CMC 8417A R2	DL	SRT
A	10-2-79	INCORPORATE CMC 8417A R2	DL	10-2-79
B	LOT	Incorporate CMC 17678	DL	SRT
B	10-18-79	Incorporate CMC 17678	DL	10-18-79
C	SP	INCORPORATE WARC 1936	DL	SRT
C	10-5-79	INCORPORATE WARC 1936	DL	10-5-79
D	10-19-79	Refab Ductile m Schenectady Lost Material	DL	10-19-79
D	10-19-79	ABRF-00315	DL	10-19-79

# COMPONENT SUPPORT MECHANICAL INSPECTIONS

(G) Record, Record

No.	DESCRIPTION	INSPECTION		REMARKS		DATE
		QC	QC	Initial QC	Final QC	
1.	Verify received material	✓	✓	N/A	N/A	
	A. Transfer Hatch	✓	✓	N/A	N/A	
	B. Transfer Component Support Hatch	✓	✓	N/A	N/A	
	C. No. 01 Support Assembly	✓	✓	N/A	N/A	
2.	Verify tolerances of cut material	✓	✓	N/A	N/A	
3.	Verify column line location plumbness and levelness	✓	✓	N/A	N/A	
4.	Verify elevation	✓	✓	N/A	N/A	
5.	Verify size and configuration	✓	✓	N/A	N/A	
6.	Verify clearance between pipe or insulation & structural member	✓	✓	N/A	N/A	
7.	Verify travel stop position (in cold position)	✓	✓	N/A	N/A	
8.	Verify fasteners (size, thread engagement, surface contact lubricant)	✓	✓	N/A	N/A	
9.	Verify Hilti bolt installation	✓	✓	N/A	N/A	
	A. Installation in concrete	✓	✓	N/A	N/A	
	B. Torque wrench cal. date	✓	✓	N/A	N/A	
10.	Perform final visual inspection	✓	✓	N/A	N/A	
11.	Perform final review and certify	✓	✓	N/A	N/A	

**FOR LIFTING**

- INSPECTION POINTS: Inspection points indicated by (Q) hold points indicated by (H) and (R) rework points indicated by (W). Initial and final inspection points are established at top of column. Rework inspection points are installed and dated in the following manner:
- ① Check marks (✓) entered by QC and (H) to indicate hold points.
  - ② Hold/inspection points not required indicated by N/A.
  - ③ QC and R/W initials and dates entered after inspection is completed.
  - ④ The applicable date of revision is entered at top of column. Rework inspection points are established at top of column.
  - ⑤ By check marks (✓), (X)'s and N/A as in note: (Q) is entered in column (2); (H) is entered in column (3); (R) is entered in column (4).
  - ⑥ Check marks (✓) entered to indicate satisfactory inspections.
  - ⑦ Check marks (✓) entered to indicate unsatisfactory inspections.

REF ID: M-18228  
Page 8 of 22

DRAW AF-1-001-007-Y33R

REV 0

CMC-3795 R;1

CMA-5091

WT 142  
NCR m-1802 ej  
pg 9 of 28

FOR INFO

END DATE TIME CATE

SEISMIC PIPE RESTRAINT CONSISTING OF:		ONE	
1.	10 3/4" O.D. Pipe-Clamp Assembly/SK. # AF-1-01-007 -Y33 Sht. 2 of 2./Detail "A", TW=136#.	1	ACCP-m/1802k R1 P.P. 10/17/21
2.	3/4"x6"x6" (SA-36) Angle. 0'-9" Long/ Detail B-TW=43# Shop Weld to Item #3 As Shown	2	PL 10/18/21 X X
3.	Carbon Steel (SA515 GR. 65 or SA-36) Plate /Section B-B, TW=20#—Shop Weld to Item #4 As Shown	1	PL 10/18/21 X
4.	Wox15.5 (SA-36) 2'-11 1/2" Long; TW=46# SHOP CENTER LINE WELD TO ONE OF ITEM #7	1	PL 10/18/21 X X
5.	Wox15.5 (SA-36) 3'-5" Long, TW= 53# As Shown	1	PL 10/18/21 X
6.	3/4"x10" HHT-Kwik-Bolt Concrete Anchors TW=114#	8	
7.	Carbon Steel (SA515 GR. 65 or SA-36) Plate /Section A-A, TW= 82# Shop Center Weld to Beams #3 & 8 As Shown Per CMC 84178v2	3	X X
8.	1/2"x10" Carbon Steel (SA515 GR. 65 or SA-36)-Plate, 0'-10" Long, TW=14# SHOP WELD AS SHOWN TO ITEMS #4 AND 5	1	PL 10/18/21 X
	PLATE AREA = 10072.200075	2	LWTM 9.2677

SEISMIC ASSEMBLY SKETCH & ENGINEERING  
BUNDLE & TAG

MARK# AF-1-001-007-Y33R

Per CMC 84178v2

Per CMC 84178v2

ABRF-C0315

Apply one coat of Carbo Zinc #11 to

above fasteners

ISSUED BY DCC

FOR INFORMATION ONLY

Approved By: DEP

Date: 7/21/21

INSPECTION REPORT

FOR MATERIALS AND OPERATIONS SEE SKETCH NO. SHEET 1 OF 1

ITT GRINNELL INFORMATION  
PIPE HANGER DIVISION

CONDITIONS	Fx	Fy	Fz	Ma	My	N
DESIGN						

REF. DRAWING NUMBERS

HORIZONTAL	-2041
UPSET	-2542

PIPE: 2325 ALUMINUM/200ELECTRIC CENTER  
STEEL: 2222 CARBON PER API A.C.C. AND NOT FAULTED

EMERGENCY	-2152
PERIODIC	-2152

DATE ISSUED: 7/21/21

DESCRIPTION

CUSTOMER: Tazos Utilities Service, Inc.

ORDER OR CONT. NO.: CP-0046

JCC NAME: Coopers Peak 1 & 2

MARK NO: AF-1-001-007-Y33R

SKETCH NO.

SHEET 1 OF 2 REV. 0/F

RECOMMENDATION

CONSTRUCTION

COMANCHE PEAK STEAM  
ELECTRIC STATION (CPSES)

COMPONENT MODIFICATION CARD (CMC)

Serial No. No. 5091

① REQUESTED/PREPARED BY:  
KIPSTI TWC.

NAME: KIPSTI TWC.  
FABRICATOR: DEPT:

② DESIGN CHANGE YES X NO:

③ REASON FOR CHANGE:  
AS DIRECTED BY  
TWX-10813  
(ALSO REF CMC-3795)

④ APPLICATION: PIPE  
WELDMENT MOD.

⑤ DWG. NO.: 5091

⑥ LINE NO./COMPONENT NO.: 5091

⑦ INSTRUCTIONS:

REMOVE [ ] NA  
PIPE M-1883  
SEE CMC-3795  
TOP ANGLE

FOR INFORMATION  
ADD   
CHANGE THE WELD  
ATTACHING THE  
CLAMP TO THE  
STANCHION FROM  
A STOP WELD  
TO A FIELD  
WELD.

PH-D Y50 APR-1-YD-02 REV. 1

⑧ APPROVED BY:  
KIPSTI TWC.  
DATE: 3/6/73

⑨ APPROVED BY:  
DOLPHIN DOLIE  
DATE: 3/9/73

⑩ DATE: 3/10/73

⑪ DATE: 3/10/73

⑫ DATE: 3/10/73

⑬ DATE: 3/10/73

⑭ DCC: NO

⑮ DCC: NO

⑯ DCC: NO

⑰ DCC: NO

⑱ DCC: NO

⑲ DCC: NO

INDEXED

COMPARATIVE PEAK STEAM  
ELECTRIC STATION (CPSES)COMPONENT MODIFICATION CARD (CMC) DATE NO. 3795  
SERIAL NO.(1) APPLICATION: PIPE  
HANDLES WELD JOINT(1) Dwg. No.  
5155 LIST - REMO.(1) LINE NO./COMPONENT NO.  
NA

## (3) INSTRUCTIONS:

REMOVE NA  
CHANGE ANGLE  
OF PIPE CHAMFER  
AS SHOWNADD NA  
2008-09-09  
2014ADD NA  
2008-09-09  
2014ADD NA  
2008-09-09  
2014

(1) DESIGN CHANGE, YES <input checked="" type="checkbox"/>	(1) NON-A <input type="checkbox"/>	(1) DESIGN CHANGE, YES <input type="checkbox"/>	(1) REQUESTED/PREPARED BY: HAL GOODSON
(1) REASON FOR CHANGE: CAN NOT BE FABRICATED AS DETAILED	NAME: DEPT.		

(1) APPROVED BY: Hal Goodson	DATE: 10/16/02
(1) APPROVED BY: John Johnson	DATE: 10/16/02

(1) APPROVED BY: John Johnson	DATE: 10/16/02
(1) APPROVED BY: John Johnson	DATE: 10/16/02

(1) APPROVED BY: John Johnson	DATE: 10/16/02
(1) APPROVED BY: John Johnson	DATE: 10/16/02

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(1) APPROVED BY: John Johnson	DATE: 10/16/02

(1) APPROVED BY: John Johnson	DATE: 10/16/02
(1) APPROVED BY: John Johnson	DATE: 10/16/02

RECEIVED BY: JOHN GOODSON

THIS IS A PROVISIONAL DOCUMENT  
SUPPORTED BY DRAWING  
SERIAL NO. 3795

30°



FOOT

## MANCHE PEAK STEAM ELECTRIC STATION (CPSES) ACT

## COMPONENT MODIFICATION CARD (CMC)

NO. 8417 A

APPLICATION: SUPPORT WELD MOD.  NON-Q  DESIGN CHANGE: YES  NO

DWG. NO. 177-2510 Rev. C 0 DATE 8/21/79

REASON FOR CHANGE: **AVOID REBAK**

LINE NO./COMPONENT NO.

INCORRECT F/W #

## INSTRUCTIONS:

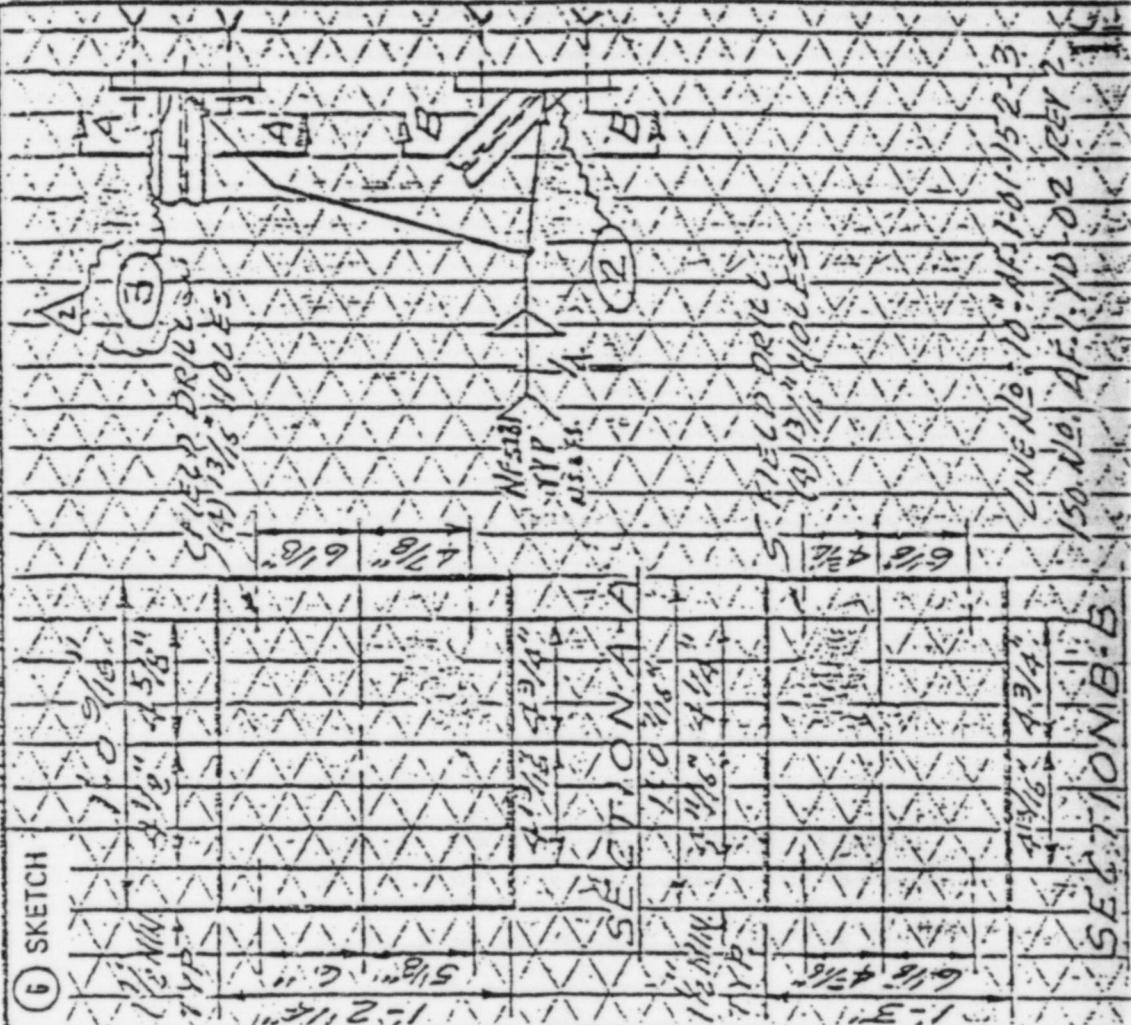
DOVE 

Z-5102 2 REQ'D.

DELETE SUE, 9 &amp; 10 A

## REASONS:

① REQUESTED/PREPARED BY: <u>HAC Gaddson</u>	NAME	DATE
② APPROVED BY: <u>J. Chapman</u>	NAME	DATE
③ DRAWN <u>ARM</u>	DATE	DATE
④ DISTRIBUTION	QTY	DATE
⑤ DCC CNTL NO.	QTY	DATE
⑥ THIS REVISION Voids	ALL PREVIOUS	DATE
AND SUPERSEDES	ALL PREVIOUS	DATE
DOCUMENT SERIAL NO.	8417	REV L
LINE NO.	101-0221	DEPARTMENT
SIGNED BY: <u>D. J. G.</u>	DATE: <u>8/21/79</u>	REV L





NCR M-18020  
pg. 15 of 28



MATERIALS & OPERATIONS  
NO. 1

APPROVED BY: W.H. DODGE  
DATE: 1/1/36

APPROVAL OF CARBON STEEL PIPE

APPROVAL OF CARBON STEEL FLANGE

APPROVAL OF CARBON STEEL CLAMP

### FOR MATERIALS AND OPERATIONS SEE SKETCH NO.

APPROVED BY: W.H. DODGE  
DATE: 1/1/36

CUSTOMER  
NAME OR CODE NO.  
SKETCH NO.

ITEM NO.	MATERIALS & OPERATIONS	EXHIBIT
1	SEISING PIPE RESTRAINT CONSISTING OF:	(a)
1	10 1/2" O.D. Pipe Clamps Assemblies, 1/2" thick	(a)
1	1 1/2" O.D. x 1/2" Thick 1/2" thick	(a)
2	1/2" O.D. x 1/2" Thick 1/2" thick	(a)
2	1/2" O.D. x 1/2" Thick 1/2" thick	(a)
3	Carbon Steel Threaded (SA-16) Nipple 6" long	(a)
3	Carbon Steel Threaded (SA-16) Flange	(a)
4	Carbon Steel Threaded (SA-16) Flange	(a)
4	Carbon Steel Threaded (SA-16) Flange	(a)
5	Shoe 5' 5" (SA-16) 2 1/4" I.D. long, 1 1/2" wide	(a)
5	Shoe 5' 5" (SA-16) 3' 3" long, 1 1/2" wide	(a)
6	1/2" O.D. Nut & Bolt, Zinc Plated Alloy	(a)
6	1/2" O.D. Nut & Bolt, Zinc Plated Alloy	(a)
7	Carbon Steel Threaded (SA-16) Flange	(a)
7	Carbon Steel Threaded (SA-16) Flange	(a)
7	1/2" O.D. Carbon Steel Threaded (SA-16) Flange	(a)
7	1/2" O.D. Carbon Steel Threaded (SA-16) Flange	(a)
8	Shoe 5' 5" (SA-16) 2 1/4" I.D. long, 1 1/2" wide	(a)
8	Shoe 5' 5" (SA-16) 3' 3" long, 1 1/2" wide	(a)

ITEM NO.	MATERIALS & OPERATIONS	EXHIBIT
1	SEISING PIPE RESTRAINT CONSISTING OF:	(a)
1	10 1/2" O.D. Pipe Clamps Assemblies, 1/2" thick	(a)
2	1 1/2" O.D. x 1/2" Thick 1/2" thick	(a)
2	1/2" O.D. x 1/2" Thick 1/2" thick	(a)
3	Carbon Steel Threaded (SA-16) Nipple 6" long	(a)
3	Carbon Steel Threaded (SA-16) Flange	(a)
4	Carbon Steel Threaded (SA-16) Flange	(a)
4	Carbon Steel Threaded (SA-16) Flange	(a)
5	Shoe 5' 5" (SA-16) 2 1/4" I.D. long, 1 1/2" wide	(a)
5	Shoe 5' 5" (SA-16) 3' 3" long, 1 1/2" wide	(a)
6	1/2" O.D. Nut & Bolt, Zinc Plated Alloy	(a)
6	1/2" O.D. Nut & Bolt, Zinc Plated Alloy	(a)
7	Carbon Steel Threaded (SA-16) Flange	(a)
7	Carbon Steel Threaded (SA-16) Flange	(a)
7	1/2" O.D. Carbon Steel Threaded (SA-16) Flange	(a)
7	1/2" O.D. Carbon Steel Threaded (SA-16) Flange	(a)
8	Shoe 5' 5" (SA-16) 2 1/4" I.D. long, 1 1/2" wide	(a)
8	Shoe 5' 5" (SA-16) 3' 3" long, 1 1/2" wide	(a)

ITEM NO.	MATERIALS & OPERATIONS	EXHIBIT
1	SEISING PIPE RESTRAINT CONSISTING OF:	(a)
1	10 1/2" O.D. Pipe Clamps Assemblies, 1/2" thick	(a)
2	1 1/2" O.D. x 1/2" Thick 1/2" thick	(a)
2	1/2" O.D. x 1/2" Thick 1/2" thick	(a)
3	Carbon Steel Threaded (SA-16) Nipple 6" long	(a)
3	Carbon Steel Threaded (SA-16) Flange	(a)
4	Carbon Steel Threaded (SA-16) Flange	(a)
4	Carbon Steel Threaded (SA-16) Flange	(a)
5	Shoe 5' 5" (SA-16) 2 1/4" I.D. long, 1 1/2" wide	(a)
5	Shoe 5' 5" (SA-16) 3' 3" long, 1 1/2" wide	(a)
6	1/2" O.D. Nut & Bolt, Zinc Plated Alloy	(a)
6	1/2" O.D. Nut & Bolt, Zinc Plated Alloy	(a)
7	Carbon Steel Threaded (SA-16) Flange	(a)
7	Carbon Steel Threaded (SA-16) Flange	(a)
7	1/2" O.D. Carbon Steel Threaded (SA-16) Flange	(a)
7	1/2" O.D. Carbon Steel Threaded (SA-16) Flange	(a)
8	Shoe 5' 5" (SA-16) 2 1/4" I.D. long, 1 1/2" wide	(a)
8	Shoe 5' 5" (SA-16) 3' 3" long, 1 1/2" wide	(a)

CHANGES



NCR M-1802er

Pg. 16 of 28

WDC Serial #

15266

Drawing: AAF-F001-007-Y33R

## MULTIPLE WELD DATA CARD

Line # 1A

#76nR ± 527 HT V Lw m 9-25-79

ITEM NO.	WPS NO.	REV.	PICN	WELD FILLER MATERIAL	WELD NOS.	P.NO.	FABRICATION CODE & CLASS/ACC STAND.
NA	11032	6	0	ET01R	- 1	11-1	ASME III -

NOTES: 1) Applicable QC/ANI hole points shall be indicated by checkmark  2) ANI inspection points indicated by (X).  3) Denote Satisfactory inspections by an "S"; Unsatisfactory inspections by a "U".

## OPERATION # OPERATIONS

1	CLEANED	/	/	/	/	/	/
2	ALIGNMENT	/	/	/	8	/	/
3	FINAL VT	/	/	/	9	/	/
4	/	/	/	/	10	/	/
5	/	/	/	/	11	/	/
6	/	/	/	/	12	/	/

## PRODUCTION RELEASE

WELD NO.	OPER- ATION	HOLEPOINTS			CONST.	SAT.or UNSAT.	INSPECTION RESULTS (SIGN & DATE) QC OR WT	NOE CERT	ANI	REV.	MFG # / CALIB. DUE DATE
		WT	QC	ANI							
1	1	X	NA	/	NO	5	18 10/16/79	II	/	/	200 10/19/79
2	2	/	/	/	/	5	18 10/19/79	II	/	/	/
3	3	/	/	/	/	/	/	/	/	/	/

Review by: B.P. Date: 8-7-79 Sign: MK 8-7-79 *LETS QDR 8-9-79*

THIS PAGE IS FOR INFORMATION ONLY  
PAGES 2 AND 3 ARE THE WELD DATA CARD

NICL M-1852e

P2.170f28

ACC Serial No. 16266, 33012

Drawing No. AF-6-001-007-Y33R

~~WELD FILLER MATERIAL LOG~~

Weld No.

1-2, 3-

COMANCHE PEAK STEAM &  
ELECTRIC STATION (CPSES)

COMPONENT MODIFICATION CARD (CMC) SERIAL NO. 1 No. 17671

- ① APPLICATION NUMBER: 1352  
② DWG. NO.: V100-1007  
③ LINE NO./COMPONENT NO.: V100-1007

④ DESIGN CHANGE/DEVIATION:

⑤ REQUESTED/PREPARED BY:

LARRY TOWNEY / LAS

NAME: L  
DEPT: MANAGER

⑥ APPROVED BY:  
A. Phillips 10-17-77

DATE: 10-17-77

⑦ REASON FOR CHANGE: RESET TO 100%

⑧ SKETCH: N/A

⑨ DISTRIBUTION: NPS SITE

DATE: 10-17-77

NCR M-18 paper  
Pg 18 of 28

NCR M-782 Rev. 2  
8-19-68

00672

AS BUILT RECORD FORM

15 <sup>1</sup> / <sub>2</sub> "		4 <sup>5</sup> / <sub>16</sub> "		3 <sup>1</sup> / <sub>4</sub> " - 1 <sup>1</sup> / <sub>4</sub> "		N	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
5 <sup>1</sup> / <sub>16</sub> "							
6 <sup>1</sup> / <sub>16</sub> "							
3 <sup>1</sup> / <sub>2</sub> "							
13 <sup>1</sup> / <sub>16</sub> "		4 <sup>13</sup> / <sub>16</sub> "		4 <sup>13</sup> / <sub>16</sub> " - 1 <sup>3</sup> / <sub>16</sub> "			

1. Hanger Number AF-1-001-007-133R Rev. 0
2. Indicate Plate Orientation on above sketch
3. Plate Material Carbon Steel (SA 515 CR 65 or SA 36)
4. Plate Thickness 1"
5. Hilti Bolt Size 3<sup>1</sup>/<sub>4</sub>" x 10"
6. If hanger has more than one plate; indicate which plate is covered. Attach additional forms for other plates as required.

Pipe Support Foreman

Date

10/23/79

QC Inspector

Date

Field Mechanical Originator

Date



NCR M-18624  
Pg. 21 of 28

WOC Date

33012

Drawing

# AF-001-007-Y33

MULTIPLE WELD DATA CARD

Line # NA

STEP NO.	WPS. NO.	REV.	ICHI	WELD FILE#	WELD NOS.	P.NO.	FABRICATION CODE
NA	11032	6	1	1E701R	2-5	11-1	ASME II

- NOTES: 1) Applicable QC/ANTL hold points shall be indicated by checkmark  .  
 2) ANT inspection points indicated by (X).  
 3) Denote Satisfactory inspections by an "S"; Unsatisfactory inspections by a "U".

OPERATION #	OPERATIONS	1	2	3	4	5	6	7	8	9	10	11	12
1	CLEANED												
2	ALIGNMENT												
3	FINAL VT												
4													
5													
6													

PRODUCTION RELEASE

WELD NO.	OPER- ATION	HOLOPOINTS	CONST.	SAT. OR INSPECTION RESULTS (SIGN & DATE INDEX)	WRC #	REV.	CALIB. DUE DATE
1	Weld 1	QA (X)	WT	5 - 10/18/79 II			10/18/79
2	Weld 2	QA (X)	WT	5 - 10/18/79 II			10/18/79
3	Weld 3	QA (X)	WT	5 - 10/18/79 II			10/18/79
4	Weld 4	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
5	Weld 5	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
6	Weld 6	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
7	Weld 7	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
8	Weld 8	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
9	Weld 9	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
10	Weld 10	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
11	Weld 11	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
12	Weld 12	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
13	Weld 13	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
14	Weld 14	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
15	Weld 15	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
16	Weld 16	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
17	Weld 17	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
18	Weld 18	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
19	Weld 19	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
20	Weld 20	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
21	Weld 21	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
22	Weld 22	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
23	Weld 23	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
24	Weld 24	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
25	Weld 25	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
26	Weld 26	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
27	Weld 27	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
28	Weld 28	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
29	Weld 29	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
30	Weld 30	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
31	Weld 31	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
32	Weld 32	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
33	Weld 33	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
34	Weld 34	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
35	Weld 35	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
36	Weld 36	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
37	Weld 37	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
38	Weld 38	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
39	Weld 39	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
40	Weld 40	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
41	Weld 41	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
42	Weld 42	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
43	Weld 43	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
44	Weld 44	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
45	Weld 45	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
46	Weld 46	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
47	Weld 47	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
48	Weld 48	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
49	Weld 49	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
50	Weld 50	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
51	Weld 51	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
52	Weld 52	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
53	Weld 53	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
54	Weld 54	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
55	Weld 55	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
56	Weld 56	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
57	Weld 57	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
58	Weld 58	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
59	Weld 59	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
60	Weld 60	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
61	Weld 61	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
62	Weld 62	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
63	Weld 63	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
64	Weld 64	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
65	Weld 65	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
66	Weld 66	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
67	Weld 67	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
68	Weld 68	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
69	Weld 69	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
70	Weld 70	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
71	Weld 71	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
72	Weld 72	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
73	Weld 73	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
74	Weld 74	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
75	Weld 75	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
76	Weld 76	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
77	Weld 77	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
78	Weld 78	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
79	Weld 79	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
80	Weld 80	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
81	Weld 81	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
82	Weld 82	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
83	Weld 83	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
84	Weld 84	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
85	Weld 85	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
86	Weld 86	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
87	Weld 87	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
88	Weld 88	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
89	Weld 89	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
90	Weld 90	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
91	Weld 91	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
92	Weld 92	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
93	Weld 93	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
94	Weld 94	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
95	Weld 95	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
96	Weld 96	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
97	Weld 97	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
98	Weld 98	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
99	Weld 99	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79
100	Weld 100	QA (X)	WT	5 - 10/18/79 II	SKT 10-16-79		10/18/79

WE

QC

AM

Additional signatures shall be affixed on the line immediately below the last step in each sequence.

P.T. reading on FWD. MAR 1936



NCR m-182 ex.

Fig. 23 of 28

KCC Serial No. 43339  
Drawing No. AFI-AD1-007-133R

WED FILLER MATERIAL 10G

'Yalda No.

14

## MANCHE PEAK STEAM ELECTRIC STATION (CPSES)

1976

SERIAL NO.

WELD ADDITION/REMOVAL CARD

① APPLICATION: PIPE SUPPORT		② WELD NO.: F-1-001-007-Y33R		③ REASON FOR CHANGE: BROKEN		④ REQUESTOR: LARRY TOWNE	
⑤ WELL NUMBER: 12		⑥ DRAWING NUMBER: 12		⑦ SKETCH:		⑧ WELL ENGRAVING:	
⑨ WELD ADDED/REMOVED REMOVED		⑩ WELD SUPPORTED BY: PIPE SUPPORT		⑪ WELD SUPPORTED BY: HIGH SUPPORT		⑫ APPROVAL NAME: G. C. TOWNE	
⑫ APPROVAL DATE: 07/29/1976		⑬ COMMENTS: THIS WELD IS REQUIRED					

"AS BUILT" RECORD FORM

{ NCE M-1802e  
P2-250-P28 }

00315

TOP

1/4 4 3/4 8 3/4 1/4

N

4

3 1/2	3 1/2	3 1/2	3 1/2
1/8	Kicker	Patch	1/8
2 9/16	2 9/16	2 9/16	2 9/16
1/2	1/2	1/2	1/2
1/2	1/2	1/2	1/2

1 1/8 4 1/2 4 1/2 5 1/2

Hanger Number:

AF-1-001-007-133R

Rev. 0

2. Indicate Plate Orientation on above sketch

3. Plate Material C-S SA515 GL165 or SA316

4. Plate Thickness

3/4 x 10

5. Hilti Bolt Size

6. If hanger has more than one plate, indicate which plate is covered. Attach additional forms for other plates as required.

Pipe Support Foreman

Date

QC Inspector

Date

Field Mechanical Originator

Date

Revision 0

September, 1979

TEXAS UTILITIES  
GENERATING CO.

COMANCHE PEAK STEAM ELECTRIC STATION  
NONCONFORMANCE REPORT (NCR)

NCR No.  
C-82-00523

Vincent

UNIT	STRUCTURE/SYSTEM	ITEM/COMPONENT	TAG/ID NUMBER	LOCATION OR ELEVATION	RIR NO.
1	RB #1 Containment Wall	Reinforcing Bars	Pour Number 101-5805-036	820'8"	N/A

NONCONFORMING CONDITION

2323-SS-10, R.4, para. 6.4.1, states in part "...reinforcement shall be accurately placed in accordance with the drawings ..." 2323-S1-0505, R. 13, Section 1-1, calls for the first row of #6 "Z" shaped bars to originate at approximately Elev. 820'8". The concrete of pour 101-5805-036 was placed to Elev. 823'6" without the above mentioned bars being installed.

REPORTING PERSONNEL

REFERENCE DOCUMENT: 2323-SS-10/2323-S1-0505 =EV 4/13 PARA 6.4.1/Sect.1-1

REPORTED BY: Dan Chandler DATE: 5/3/82

QE REVIEW/APPROVAL: Harry J. Williams DATE: 5/3/82

ACTION ADDRESSEE: J. T. Merritt/Kissinger DEPARTMENT: Engineering

DISPOSITION: REWORK \_\_\_\_\_ REPAIR \_\_\_\_\_ USE AS IS \_\_\_\_\_ SCRAP \_\_\_\_\_

ACTION ADDRESSEE

FOR INFORMATION ONLY

ENG. REVIEW/APPROVAL DATE: / /

QE REVIEW APPROVAL DATE: / /

DISPOSITION VERIFICATION & CLOSURE: FOIA-85-59 DATE: / /

COMMENTS: R148

QE

## ROUTING AND TRANSMITTAL SLIP

Date

TO: (Name, office symbol, room number,  
building, Agency/Post)

Initials      Date

1.

2.

3.

4.

5.

Action	File	Note and Return
Approval	For Clearance	Per Conversation
As Requested	For Correction	Prepare Reply
Circulate	For Your Information	See Me
Comment	Investigate	Signature
Coordination	Justify	

## REMARKS

Mail it to John Fudan  
 He is in Vice Norman's  
 (P-234)  
Office

DO NOT use this form as a RECORD of approvals, concurrences, disposals,  
 clearances, and similar actions

FROM: (Name, org. symbol, Agency/Post)

Room No.—Bldg.

12/6/84

Phone No.

 OPTIONAL FORM 41 (Rev. 7-76)  
 Prescribed by GSA  
 FPMR (41 CFR) 101-11.206

FOIA-85-59

FOIA OF 50

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