



101 California Street, Suite 1000, San Francisco, CA 94111-5894

415/397-5600

June 18, 1984  
84042.017

Mrs. Juanita Ellis  
President, CASE  
1426 S. Polk  
Dallas, Texas 75224

SUBJECT: Telecon Transmittal #6  
Comanche Peak Steam Electric Station  
Independent Assessment Program - Phase 3  
Job No. 84042

Dear Mrs. Ellis:

Enclosed please find telecons associated with the Phase 3 Independent Assessment Program.

If you have any questions or desire to discuss any of these documents please do not hesitate to call. If you are unable to reach me in the Cygna San Francisco office ask for Ms. Donna Oldag at the same number.

Very truly yours,

N. H. Williams  
Project Manager

NHW/  
Attachment

cc: Mr. D. Wade (TUEC) w/attachment  
Mr. S. Treby (USNRC) w/attachment  
Mr. G. Grace (TUEC) w/attachment  
Mr. D. Pigott (Orrick, Herrington & Sutcliffe) w/o

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USE ATTACHED DIST  
Per S. Zuercher



# Communications Report

Company:	Texas Utilities	<input type="checkbox"/> Telecon	<input checked="" type="checkbox"/> Conference Report
Project:	Comanche Peak Steam Electric Station Independent Assessment Program - Phase 3	Job No.	84042
		Date:	3/14/84 - 3/17/84
Subject:	Tube Steel Allowable	Time:	1:00 p.m./ 8:00 p.m.
		Place:	Site
Participants:	D. Rencher	of	TUSI
	J. Minichiello		Cygna
	J. Finneran		TUSI/PSE

Item	Comments	Required Action By
	Cygna has noted that the allowables used for tube steel do not reflect Revision 10 of the N-71 Code Case, but only Revision 9. Mr. Rencher explained that TUSI was aware of the differences and suggested Cygna contact Mr. Finneran concerning TUSI's position. On 3/17, Cygna discussed the allowable with Mr. Finneran. Mr. Finneran stated that TUSI had documentation from the ASME Code permitting the use of the earlier revision. Cygna requested a copy of the documentation for review.	JF/TUSI

Signed: *N. Williams* /eam Page 1 of 1  
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# Communications Report

Company: Texas Utilities

☐ Telecon

☒ Conference Report

Project: Comanche Peak Steam Electric Station  
Independent Assessment Program - Phase 3

Job No: 84042

Date: 3/20/84

Subject: PUS U-Bolt Allowables

Time: 4:00 pm

Place: Comanche Peak

Participants: D. Rencher

of TUSI

J. Minichiello

Cygn

Item	Comments	Required Action By
	<p>Cygn had requested allowables for PUH U-bolts above PUH-160. According the Mr. Rencher, allowables do not exist. Instead, the designers are directed to use appropriate calculations to qualify the U-bolts, based on the cross-section. The same is true for PUS allowables not shown.</p>	

Signed:

*N. Williams*

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# Communications Report

Company:	Texas Utilities	<input checked="" type="checkbox"/> Telecon	<input type="checkbox"/> Conference Report
Project:	Comanche Peak Steam Electric Station	Job No.	84042
	Independent Assessment Program - Phase 3	Date:	5/17/84
Subject:	Inspection Reports	Time:	9:30 a.m.
		Place:	Boston
Participants:	S. Bibo	of	Cygna
	Donna Lewellen		TUSI

Item	Comments	Required Action By
	<p>I called Donna to discuss the IR filing/retrieval system at CPSES.</p> <p>Donna explained that she had logs of all IR's on file in her office. I told Donna that I would like to have her available on 5/21/84 to explain the IR filing system because I would be on site.</p> <p>She said that she would be available.</p>	

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# Communications Report

Company:	Texas Utilities	<input type="checkbox"/> Telecon	<input checked="" type="checkbox"/> Conference Report
Project:	Comanche Peak Steam Electric Station Independent Assessment Program - Phase 3	Job No.	84042
		Date:	3/27/84
Subject:	Gibbs & Hill Internal Surveillance Reports	Time:	
		Place:	G & H/NYC
Participants:	J.C. Waal	of	Cygna
	Joan Gaynor		Gibbs & Hill

Item	Comments	Required Action By
	Internal Surveillance Reports were presented for Cygna's review. The reports covered the period from 1978 through 1983. We requested additional reports for previous years. Ms. Gaynor said that she would try to locate the reports. Although the procedure for internal surveillance dates back to Dec. 1973 (for Rev. 2) Ms. Gaynor stated that she didn't think that any were performed prior to 1978. She said that the form QA-I-I in QA-1, Rev. 2 was used to transmit and record documents for design review. The process involved a final calculation being transmitted to QA, QA then puts on the QA-I-I form and sends it out for design review, the document returns to QA from the design reviewer with the appropriate spaces filled in to show that a design review was performed and whether or not corrections to the document are required. (Refer to Checklist DC-02-02B)	

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# Communications Report

Company: Texas Utilities

☒ Telecon

☐ Conference Report

Project: Comanche Peak Steam Electric Station

Job No. 84042

Independent Assessment Program - Phase 3

Date: June 4 1984

Subject: Clarification on Large Bore Stress Problems  
and Welded Attachment Calculations

Time: 1:45 p.m.

Place: S.F.

Participants: H. Mentel

of G&H

L. J. Weingart

Cygn a

Item	Comments	Required Action By
	Henry clarified that the 272 large bore stress problems and 735 welded attachment calculations are for Unit 1 systems and systems common to both units. Henry will provide Cygna with the log of welded attachment calculations as an aid in the attempt to assemble a list of all supports which involve welded attachments.	

Signed:

*N. Williams*

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# Communications Report

Company:	Texas Utilities	<input checked="" type="checkbox"/> Telecon	<input type="checkbox"/> Conference Report
Project:	Comanche Peak Steam Electric Station	Job No.	84042
	Independent Assessment Program - Phase 3	Date:	June 6, 1984
Subject:	Pipe Stress Questions - Welded Attachments in	Time:	8:00
	Break Exclusion Zones	Place:	Site
Participants:	H. Harrison	of	TUEC
	J. Minichiello		Cygna

Item	Comments	Required Action By
	Harvey asked if Westinghouse should perform any analyses on their piping within break exclusion zones. Cygna replied that G&H was examining this problem to determine design impact and may need data from Westinghouse, but probably not additional analyses.	

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# Communications Report

Company:	Texas Utilities	<input type="checkbox"/> Telecon	<input checked="" type="checkbox"/> Conference Report
Project:	Comanche Peak Steam Electric Station	Job No.	84042
	Independent Assessment Program - Phase 3	Date:	June 8, 1984
Subject:	Pipe Support Data Request	Time:	10:30
		Place:	Site
Participants:	G. Grace	of	TUEC
	J. Minichiello		Cygna

Item	Comments	Required Action By
	<p>Cygna requested a copy of the NPSI Tubesteel/Richmond insert analysis (see TUGCO letter May 18, 1984) be sent to:</p> <p>Cygna Energy Services 286 Congress Street Boston, MA 02210</p> <p>Attn: Dr. Gordon Bjorkman</p>	

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# Communications Report

Company:	Texas Utilities	<input type="checkbox"/> Telecon	<input checked="" type="checkbox"/> Conference Report
Project:	Comanche Peak Steam Electric Station	Job No.	84042
	Independent Assessment Program - Phase 3	Date:	June 6, 1984
Subject:	Data Request	Time:	10:00
		Place:	Site
Participants:	D. Rencher	of	TUEC
	J. Minichiello		Cygn

Item	Comments	Required Action By
	Cygn requested SA-4184, Revision 0 and 1, for review (referenced in support MS-1-003-004-S72R).	

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# Communications Report

Company:	Texas Utilities	<input checked="" type="checkbox"/> Telecon	<input type="checkbox"/> Conference Report
Project:	Comanche Peak Steam Electric Station	Job No.	84042
	Independent Assessment Program - Phase 3	Date:	June 6, 1984
Subject:	ITT Internal Audit Findings	Time:	3:30 P.M.
		Place:	Boston
Participants:	P. Salcone	of	ITT Grinnell
	A. Jones		Cyqna

Item	Comments	Required Action By
1.a	I phoned Mr. Pete Salcone of ITT Grinnell on June 6, 1984 in reference to the status of Grinnell Audits No. 1 and No. 2 with regard to closure of Findings 3 and 4 respectively. He informed me that he had reviewed these particular findings himself and they were closed out on April 4, 1984.	
1.b	<p>In regard to Findings 5 through 12 issued during Grinnell Audit No. 6 dated September 19, 1978, he said they also had been closed out.</p> <p>When I asked him the contents of these particular findings, he said they were sketches that were in the process of revision at the time of the audit.</p> <p>I requested copies of the above items from him and was told to call Dave Powers on Thursday, June 7, 1984 and he would send us the information.</p>	

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# Communications Report

Company:	Texas Utilities	<input checked="" type="checkbox"/> Telecon	<input type="checkbox"/> Conference Report
Project:	Comanche Peak Steam Electric Station	Job No.	84042
	Independent Assessment Program - Phase 3	Date:	June 5, 1984
Subject:	Data Collection	Time:	P.M.
		Place:	
Participants:	J. C. Waal	of	Cygna
	Borys Czarnogorski		G&H

Item	Comments	Required Action By
	<p>I called Borys to see how he was doing getting historical copies of the Project Guides that I had previously requested. Borys said that it would take longer than he first thought because there were a lot of files to go through. I told him that I realized that he was very busy and that he could place my request on a lower priority. I also told him that I could develop the checklists using the latest revisions and then review the historical documents during upcoming visits to G&amp;H, New York City. Borys said that would be fine. He asked if we would definitely be coming to New York City then. I told him that I didn't know because we were still developing the checklists, but I would inform him when the visit to New York City is scheduled.</p>	

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# Communications Report

Company:	Texas Utilities	<input type="checkbox"/> Telecon	<input checked="" type="checkbox"/> Conference Report
Project:	Comanche Peak Steam Electric Station Independent Assessment Program - Phase 3	Job No.	84042
		Date:	6/1/84
Subject:	Sort Request	Time:	11 am
		Place:	Site
Participants:	D. Rencher	of	TUEC
	J. Minichiello		Cygna

Item	Comments	Required Action By
	Cygna requested a sort of stress problem number against line number and pipe size for all piping problems. This would be similar to the 3 and 4 inch pipe size sort "LIRSH-CGN-DIA.RPT" received 5/24.	

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# Communications Report

Company:	Texas Utilities	<input checked="" type="checkbox"/> Telecon	<input type="checkbox"/> Conference Report
Project:	Comanche Peak Steam Electric Station Independent Assessment Program - Phase 3	Job No.	84042
		Date:	6/6/84
Subject:	Notification of Meeting Time for 6/7/84	Time:	9:15 am
		Place:	SFR0
Participants:	Juanita Ellis	of	CASE
	Donna Oldag		Cygn

Item	Comments	Required Action By
	I called Mrs. Ellis to inform her of the time for the meeting being held at CPSES tomorrow. I also asked her for the name of the person from CASE who will be attending so that Texas Utilities could ensure access for the CASE representative. Mrs. Ellis said that they were still trying to line someone up for the meeting and that she would call Dave Wade directly with the name of the CASE attendee.	

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# Communications Report

Company: Texas Utilities

☐ Telecon

☒ Conference Report

Project: Comanche Peak Steam Electric Station  
Independent Assessment Program - Phase 3

Job No. 84042

Date: 5/30/84

Subject: Stiffening of Embedment Plates

Time: 4:00 p.m.

Place: G&H, New York

Participants: Ed Bezkor

of G&H

John Russ

Cygna

Item	Comments	Required Action By
	Cygna asked Mr. Bezkor to explain the requirements for stiffening embedded plates so that moments at base connections of pipe supports were resolved into shear and tension loads. Mr. Bezkor stated that the plates must be stiffened per Rev. 1 of Specification 2323-SS-30. Mr. Peter Huang will provide Cygna with the detailed calculations when he returns from vacation.	

Signed:

*N. Williams*

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Project File





# Communications Report

Item	Comments	Required Action By
	<p>the bolts to share the shear load.</p> <p>What is TUSI's standard practice in this type of connection? Is this weld acceptable?</p> <p>d. The weight of the constant support itself is not included in the support design load for the frame. A #53 constant support weighs approximately 600 lbs., or 5% of the design load.</p> <p>What is TUSI's standard practice for spring anchorage design?</p>	



# Communications Report

Company:	Texas Utilities	<input type="checkbox"/> Telecon	<input checked="" type="checkbox"/> Conference Report
Project:	Comanche Peak Steam Electric Station Independent Assessment Program	Job No.	84042
		Date:	3/21/84
Subject:	Mechanical Review Comments - Phase 3	Time:	2:30 p.m.
		Place:	Site
Participants:	D. Rencher	of	TUSI
	J. Minichiello		Cygna

Item	Comments	Required Action By
	<p>Cygna requested responses for the following questions:</p> <p><b>Comment:</b> In the spring design loads for the main steam system, Cygna cannot match the loads in the design calculation to the loads in the data transmitted by G&amp;H.</p> <p>How has the design load for a spring been calculated?</p> <p><b>Comment:</b> In reviewing MS-1-004-001-C72S, Cygna had the following questions:</p> <p>a. There appears to be a 7/16" flare bevel weld between items 15 and 22. This does not seem possible due to item 34.</p> <p>Does TUSI have documentation confirming the size and configuration of this weld? Likewise, the weld (5/16") between 26 and 15?</p> <p>b. The STRUDL model uses a fixed point at the embedment plates (3, 6, 12, and 15 joints). Specification 2323-SS-30, Rev. 1, requires these to be treated as pin joints, unless the embedment is stiffened.</p> <p>Where is the stiffener in this calculation, and has structural accepted this configuration?</p> <p>c. Per ASME Appendix XVII, paragraph 2442, shear loads on connections with both welds and bolts must be taken by the welds alone. Item 16 is attached to beam #21 with both welds and Hilti bolts. The weld sizing calculations performed use</p>	

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# Communications Report

Company:	Texas Utilities	<input checked="" type="checkbox"/> Telecon	<input type="checkbox"/> Conference Report
Project:	Comanche Peak Steam Electric Station Independent Assessment Program - Phase 3	Job No.	84042
		Date:	6/8/84
Subject:	Notification of Rescheduled Meeting on Data Base Verification Activities - CASE	Time:	AM
		Place:	SFRO
Participants:	J. Ellis	of	CASE
	D. Oldag		Cygn

Item	Comments	Required Action By
	<p>I phoned Mrs. Ellis to notify her that the meeting on Data Base Verification Activities had been rescheduled to Wednesday, June 13, 9 a.m., at the CPSES site.</p> <p>Mrs. Ellis asked for the exact location on site. I replied that she would have to ask G. Grace for that information since he was arranging for the meeting room.</p>	

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# Communications Report

Company:	Texas Utilities	<input checked="" type="checkbox"/> Telecon	<input type="checkbox"/> Conference Report
Project:	Comanche Peak Steam Electric Station Independent Assessment Program - Phase 3	Job No.	84042
		Date:	6/8/84
Subject:	Notification of Rescheduled Meeting on Data Base Verification Activities - NRC	Time:	AM
		Place:	SFRO
Participants:	Spotswood Burwell	of	NRC
	D. Oldag		Cygn

Item	Comments	Required Action By
	<p>I phoned Mr. Burwell to notify him that the meeting on Data Base Verification Activities had been rescheduled to Wednesday June 13, 9 am, at the CPSES site.</p> <p>Mr. Burwell stated that he would not be attending the meeting but would expect a Conference Report summarizing the meeting.</p>	

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Distribution: N. Williams, D. Wade, G. Grace, S. Burwell, S. Treby, J. Ellis, Project File



# Communications Report

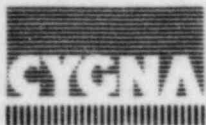
Company:	Texas Utilities	<input checked="" type="checkbox"/> Telecon	<input type="checkbox"/> Conference Report
Project:	Comanche Peak Steam Electric Station	Job No.	84042
	Independent Assessment Program - Phase 3	Date:	5/30/84
Subject:	May 24, 1984 Site Discussions	Time:	4:00 p.m.
	Pipe Stress and Pipe Supports	Place:	Cygna, SFRO
Participants:	D. Wade	of	TOEC
	N. Williams		Cygna

Item	Comments	Required Action By
1.	<p>Dave Wade called to ask for some clarification on the questions which remain open from the 5/24/84 discussions at the site:</p> <p><b>PIPE STRESS</b></p> <p>(Item 8, 5/24/84 Communications Report)</p> <p>Dave asked what the main cause of the SIF errors were. I replied that it was a combination of omissions not found by the checker, use of incorrect properties in the input to ADLPIPE, and incorrect application of the later code (i.e., requirements contained in footnotes).</p>	
2.	<p>(Item 12, 5/24/84 Communications Report)</p> <p>Dave clarified that E.C. Rodabaugh was not working with G&amp;H on the welded attachments in break exclusion zones, although G&amp;H is checking these attachments as stated in the Communications Report.</p>	
3.	<p>(Item 17, 5/24/84 Communications Report)</p> <p>Dave asked for some more specifics on the mass participation question. I stated that there were examples in the main steam analysis where 0% of the mass was participating in the vertical direction.</p> <p>There is further discussion of these examples in the 3/19/84, 8:00 a.m. telecon.</p>	

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# Communications Report

Item	Comments	Required Action By
4.	<p>Dave also stated that they would be sending all of the G&amp;H reviews on this matter which have been conducted to-date. I also requested that he include a description of the methodology G&amp;H used in calculating the mass fractions.</p>	
	<p>(Item 20, 5/24/84 Communications Report)</p>	
	<p>Dave asked where the 0" tolerance requirement is documented. I stated that it appears in G&amp;H Specification MS-46A, Section 3.6.2.1.1. Referring to that section, Dave said his copy, Rev. 5, dated 2/84, did not contain that requirement. Further review of Cygna's technical file indicated that Cygna's copy was Rev. 3. It appears that the 0" tolerance may have been deleted in Rev. 4 or 5. Cygna will check into this matter and void the question if appropriate.</p>	
5.	<p>(Item 35, 5/24/84 Communications Report)</p>	
	<p>Dave mentioned that G&amp;H appears to interpret the line contact stress question as referring to pipes resting on structural members such as tube steel. I stated that the concern really related to attachments which are not welded. For example, a saddle welded to the pipe would be analyzed using the CYLNOZ program, while the same configuration in the unwelded condition was not analyzed. Refer to the 4/23/84 Communications Report for specific examples.</p>	
	<p><b>PIPE SUPPORTS</b></p>	
	<p>Dave asked if the question on section properties pertained to just tube steel or other structural shapes as well. Also does the question pertain to NPSI or ITT Grinnell design?</p>	
	<p>Dave asked what Cygna meant by "consistency in design" (Item 28). I replied that we were asking for design procedures but the intent was to understand how the pipe support design activities were controlled. I further explained that although we were asking for procedures, we recognized that it is unlikely that any organization would have procedures for every aspect of the design activities. Rather, the question was intended to initiate some discussions which would aid Cygna in understanding the Texas Utilities design process from which we could make an assessment of how well it was working, based on the adequacy of the designs we reviewed.</p>	
	<p>In summary, I stated that the list of open items contained in the 5/24/84 Communications Report were in many cases minor discrepancies or requests for further information to complete the review. This list is not necessarily indicative of the number of</p>	





# Communications Report

Item	Comments	Required Action By
	<p>observations or a serious matter in terms of the adequacy of the pipe support design. Rather, in keeping with Chairman Bloch's request to document more of the review details to minimize questions by people attempting to assess the adequacy and depth of Cygna's review, we were pursuing a more literal interpretation of our review criteria and placing more emphasis on documenting perhaps minor points.</p>	