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April 8, 1986

Mr. Samuel J. Chilk
Secretary
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Mr. William Clements

Re: Braidwood Nuclear Power Plant,
Docket Nos. 50-456 and 457 0 L

Dear Mr. Chilk:

Enclosed please find the original deposition of Edward M. Shevlin taken in the above-styled matter on February 13, 1986. Mr. Shevlin has made the following changes to his deposition:

1. Page 20, line 4 - "Some" changed to "Someone"
2. Page 22, line 14 - "is" changed to "was"
3. Page 31, line 17 - "ID" changed to "idea"
4. Page 37, line 7 - "BECAP'S" changed to "BCAP'S"
5. Page 39, line 4 - "BECAP" changed to "BCAP"
6. Page 40, line 19 - "And" changed to "An"
7. Page 41, line 14 - "valid" changed to "invalid"
8. Page 42, line 9 - "had" changed to "hand"
9. Page 69, line 7 - "21420" changed to "21 for 20"
10. Page 69, line 14 - "21420" changed to "21 for 20"

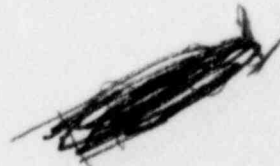
Please file this deposition with your office.

Sincerely,

Sheryl L. Riley
Sheryl L. Riley

cc: Philip Steptoe, Esq.
Robert Guild, Esq.
Elaine Chan, Esq.

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PDR ADOCK 05000456
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UNITED STATES OF AMERICA

NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY & LICENSING BOARD

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OFFICE OF
DOCKETING & SERVICE
BRANCH

5 ----- -x

6 In the matter of: :

7 COMMONWEALTH EDISON COMPANY : Docket Nos.

8 (Braidwood Nuclear Power Station, : 50-456

9 Units 1 and 2) : 50-457

10 ----- -x

11

12 Isham, Lincoln & Beale

13 Three First National Plaza

14 Chicago, Illinois

15 Thursday, February 13, 1986

16 The Deposition of EDWARD M. SHEVLIN, called

17 for examination by Counsel for Intervenor, taken before

18 Suzanne B. Young, a Notary Public in and for the District

19 of Columbia, at the offices of Isham, Lincoln & Beale,

20 Chicago, Illinois, on February 13, 1986, when were present

21 ANN RILEY & ASSOCIATES, LTD.

22 1625 I Street, N.W. 293-3950 Washington, D.C.

1 on behalf of the respective parties:

2 APPEARANCES:

3 For the Licensee, Commonwealth Edison Company:

4 PHILIP P. STEPTOE, III, Esq.
5 Isham, Lincoln & Beale
6 Three First National Plaza
7 Chicago, Illinois 60602

8 For the Intervenors, Rorem, et al.:

9 ROBERT GUILD, Esq.
10 109 North Dearborn, Suite 1300
11 Chicago, Illinois 60602

12 For the NRC Staff:

13 ELAINE CHAN, Esq.
14 Office of the Executive Legal Director
15 U.S. Nuclear Regulatory Commission
16 Washington, D.C. 20555

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I N D E X

<u>Witness</u>	<u>Examination By:</u>	<u>Page No.</u>
EDWARD M. SHEVLIN	Mr. Guild	4
	Mr. Steptoe	62
	Mr. Guild	66
	Mr. Steptoe	70
	Mr. Guild	71

EXHIBITS

<u>Exhibit No.</u>	<u>Description</u>	<u>Identified</u>
Shevlin No. 1	Intervenors' Notice of Deposition 1/3/86	8
Shevlin Group Exhibit No. 2	Drawings, memos, reports, etc.	12 and 17

* * *

P R O C E E D I N G S

10:10 a.m.

Whereupon,

EDWARD M. SHEVLIN,

called for examination by counsel for Intervenors, after being sworn under oath, was examined and testified as follows:

EXAMINATION

BY MR. GUILD:

Q Mr. Shevlin, would you state your full name and your business address for the record, please?

A My full name is Edward M. Shevlin, and my business address is Braidwood Nuclear Station, Braidwood.

Q And by whom are you employed?

A I am employed by Daniel International Corporation.

Q And in what capacity?

A I am currently working as a consultant in the Phillips-Getschow Mechanical Contractors organization.

Q You submitted an affidavit in this proceeding in support of Commonwealth Edison Company's Motion for Summary Disposition regarding a portion of Intervenors' quality assurance contention, and I want to show you a document

1 that is entitled "Affidavit of Edward Michael Shevlin on
2 Rorem QA Subcontention 12J, and it appears to be your
3 signature. Is that your signature?

4 A Yes, it is.

5 Q And is that your testimony, a document of 30
6 pages with attachments that follow that affidavit?

7 A Yes.

8 Q For the record, my name is Bob Guild. I am
9 counsel for the Intervenors Bridgette Rorem and others,
10 in the Braidwood licensing proceeding on the quality
11 assurance contention, and I have got some questions for you
12 concerning your affidavit, Mr. Shevlin.

13 Before I begin, I understand that you may have
14 some corrections to your testimony.

15 A Yes.

16 Q Could I ask you to make those at this time,
17 please?

18 MR. STEPTOE: We sent a letter out last week,
19 but why don't you go ahead and do it again just for
20 completeness.

21 MR. GUILD: I would appreciate that.

22 THE WITNESS: Okay. There are, first, a number

1 of typographical errors.

2 MR. GUILD: Why don't you just leave off the
3 typos unless they change the meaning of the testimony.

4 THE WITNESS: No, they mean nothing.

5 Second, on Answer 26, page 20, the second line
6 from the bottom, the number 20 should be 21. Oh, excuse
7 me. The second line from the bottom on page 20, the figure
8 0 foot, 0-3/8 inches should be 0 foot, 0-3/4 inches.

9 BY MR. GUILD:

10 Q I am looking at the last line. Is that what your
11 reference is? There is one word on the last line. I
12 apologize. Thank you. That should read 3/4 inch; correct?

13 A Right.

14 Q All right. Thank you.

15 A Answer 35 on page 26, the second line from the
16 bottom, 20, should read 21.

17 Q All right, sir.

18 A On Exhibit E, the page numbered E-521, in the
19 right-hand column, top, the number "7" should be number "8."
20 And the bottom number in that column, "12," should be "13."

21 Q All right, sir. Are there any others?

22 A Yes. Answer 13, page 11, the fifth and sixth

1 lines from the top, in both cases the word "bottom" should
2 be "top."

3 Q And how should the sentence read?

4 A It should then read, "In the other case, the
5 BCAP Task Force recorded a 10-inch dimensional difference
6 from the top of the slab to the bottom of -- to the top of
7 a riser."

8 On the same page, the bottom line and the second
9 line from the bottom, "lower" should be "upper," and
10 "bottom" should be "top."

11 Q Could you tell me how the sentence should read
12 as corrected?

13 A It should then read, "The 10-inch dimensional
14 difference noted by the CAT was a simple error on the
15 inspector's part. She measured from the top of the slab to
16 the weld at the upper end of the riser."

17 MR. STEPTOE: Bob, if I can interject, the
18 correction which Mr. Shevlin made to his own affidavit
19 substituting "21" for "20" also has to be carried over, as
20 I indicated in my letter last week, into Mr. Kostal's
21 affidavit at page 6, line 2, and I believe it also appears
22 in my statement of material facts on page 7, the sixth line

1 from the bottom.

2 BY MR. GUILD:

3 Q Are there any other corrections that are a part
4 of your testimony?

5 A No.

6 Q Mr. Shevlin, I want to show you a document that
7 has been marked for identification as Gieseke Deposition
8 Exhibit 1. It is entitled, "Intervenors, Rorem, Et Al,
9 Notice of Depositions," dated 1/30/86. It is directed to
10 you, among others, and I ask if you can identify that
11 document.

12 (Witness reviewing document.)

13 A I have seen it.

14 Q And what I would like to do is provide the
15 reporter of this Gieseke Exhibit and ask that it be marked
16 as the first exhibit to Mr. Shevlin's deposition.

17 (Shevlin Deposition Exhibit No. 1
18 was marked for identification.)

19 BY MR. GUILD:

20 Q Mr. Shevlin, the second page of that notice asks
21 that you and the other deponents bring with you documents.

22 Have you brought any documents responsive to

1 that request?

2 A The copies of the drawings which you were
3 furnished.

4 Q Are there any other documents that are responsive
5 to the request that you bring with you, all documents in
6 your possession or subject to your control which are
7 the basis for your affidavit in support of the December 20
8 Motion for Summary Disposition?

9 A In my affidavit I quoted Juran, the quality
10 handbook. I have the handbook with me.

11 Q Are there any other documents that are the basis
12 for your testimony? I believe your counsel before the
13 deposition identified additional documents that he has a
14 copy of that are responsive to that request.

15 A I used or referred to a number of papers that
16 are in the BCAP files.

17 Q All right. What I would like you to do, Mr.
18 Shevlin, is to identify those documents for the record,
19 and we may want to copy them and have them made a part of
20 the record in this deposition; but if I could ask Mr.
21 Steptoe to make available to you the stack of paper.

22 MR. STEPTOE: Why don't you take a look at that

1 stack of papers and see whether you used any of those
2 documents in preparing your affidavit.

3 (Witness reviewing documents.)

4 BY MR. GUILD:

5 Q I'll tell you what, Mr. Shevlin. Before you do
6 that, let me get you to identify the drawing that you just
7 had reference to first. If you could take the stack of
8 paper that was made available first and tell me what those
9 are, please, if you would go page by page and identify
10 them.

11 (Witness reviewing documents.)

12 A Identify these drawings.

13 Q Yes, please. Tell me what they are.

14 A Okay. The top page is a copy of Phillips-Getschow
15 construction piping drawing 1AAF8.

16 Q All right.

17 A A copy of the Sargent & Lundy support drawing
18 1CS03029V.

19 A copy of a Westinghouse support drawing 1CS04002S.

20 A later revision of the same drawing.

21 Q Can you identify the revision?

22 A Revision D.

1 Q To the Westinghouse drawing?

2 A Yes. The difference being that with Revision D
3 it has Sargent & Lundy's title block on it.

4 Q What was the revision of the first document you
5 identified, the first Westinghouse document?

6 A Okay. The same drawing, LCS04002S. It's
7 Revision *1, which has to do with engineering change notice
8 152471.

9 Q And is the Rev. D a later revision?

10 A Rev. D is a later revision.

11 Another copy of the same support drawing with
12 a Westinghouse title block, Revision *2. And the *2
13 relates to engineering change notice 16959.

14 Q And is it, Rev. *2, before or after Rev. D?

15 A Rev. D is the later.

16 Q All right.

17 A Now, the next one is Westinghouse drawing
18 support LSX06028R.

19 And the final drawing is a blowup of one portion
20 of the one I just mentioned.

21 MR. STEPTOE: One portion of the what?

22 THE WITNESS: Of the Westinghouse drawing I just

1 mentioned.

2 BY MR. GUILD:

3 Q Okay.

4 A It's just an enlargement of one corner of the
5 drawing.

6 MR. GUILD: I would like to ask that the
7 reporter mark the drawings, to begin with, as the first
8 portion of Shevlin Group Exhibit 2, and we may add some
9 documents to that as we go forward.

10 (Shevlin Deposition Group Exhibit
11 No. 2 was marked for identification.)

12 BY MR. GUILD:

13 Q Mr. Shevlin, I interrupted you when you were
14 beginning to look through the stack of papers that Mr.
15 Steptoe made available to you.

16 (Witness reviewing documents.)

17 MR. STEPTOE: Bob, what I did in compiling the
18 stack was I just got all the reference documents that
19 were included in Commonwealth Edison's response to your
20 Interrogatories 58 and 59 with respect to Contention 12J.
21 Based on the previous conversations with Mr. Shevlin, I had
22 reason to believe that those were the documents. At least

1 those included the documents that he had relied on other
2 than the ones he brought today.

3 I asked our paralegals to copy these documents,
4 and that's how we got this stack. Now, the paralegals did
5 not find in our files three of those documents, and there-
6 fore, Mr. Shevlin has not looked through those three
7 documents. They are listed on the front of the report, and
8 maybe Mr. Shevlin could look at them. They are items 6, 7
9 and 8 in our reference list dated November 22, 1985,
10 which was included with our response to your Interrogatories
11 58 and 59. He might be able to tell just by looking at the
12 brief caption whether or not he relied on those documents.

13 THE WITNESS: I don't believe I did. I don't
14 recognize them.

15 BY MR. GUILD:

16 Q Mr. Shevlin, you have had an opportunity to
17 review the documents that Mr. Steptoe just described, and
18 can you tell me, of those documents, which were the basis
19 for your affidavit? Can you go through the stack that you
20 have found, please?

21 A This one.

22 Q Can you tell me what it is?

1 A It's a summation, pages E453 and 454.

2 A memo from Clinton to Byers, page E458. An
3 attachment to that memo, page E459. Another attachment,
4 Attachment 2 to the same memo, page E460.

5 MR. STEPTOE: Excuse me, Mr. Shevlin. Is that
6 a two-page attachment?

7 THE WITNESS: Well, page E460 through E465.

8 An analysis sheet, pages E466 and 467.

9 A memo to Byers to Orlov, page E468.

10 A memo from Shevlin to Clinton, page E469 through
11 E473.

12 Summary sheets of the pipe support reverification.

13 BY MR. GUILD:

14 Q Do those bear Bates stamp numbers, Mr. Shevlin?

15 A I don't think they do.

16 Q Well, how many documents are there, how many
17 pages?

18 A Well, some of them do and some don't. Oh, there
19 it is. Okay. One stamp is illegible. It would appear that
20 it's probably 474.

21 Q And the letter "E" to start? Well, I will buy
22 that it's illegible.

1 A Sequentially it would be 474.

2 Q And the rest of them all have "E"? You can make
3 out the "E" on the pages?

4 A Yes. I would say it's E474 through E482.

5 A stack of BCAP observations, page E483 through
6 E507.

7 An analysis of the new observations for the
8 reverification plan, E515 through E521.

9 Q Let me stop you. The BCAP observations, E483
10 through 507, are they the observations from the reverification
11 program?

12 A I believe they are. At least some of them are.
13 Memo from Shevlin to Clinton, page E523 and E524.
14 Attachment 1 to BCAP Memo 530, page E527 through
15 E533.

16 BCAP Memo 593, which is page E536.

17 A memo from Shevlin to Clinton, page E537 through
18 E539.

19 A draft reverification plan, page E717 and 718
20 and 719.

21 Memo from Shevlin to Clinton, page E722.

22 Memo from Shevlin to Clinton, page E723.

1 Employee evaluation forms, page E724 through
2 729.

3 Memo from Shevlin to Clinton, page E730.

4 And a couple of statements or some figures
5 from the Braidwood -- from the BCAP report, which the cover
6 is page 731.

7 Q And you have the entire report there in front
8 of you?

9 A Yes. I didn't use much of it.

10 Q All right. That report has been filed in the
11 proceeding and it's a little bit voluminous. Let's leave
12 that out of the stack, and if in the course of your
13 deposition you need to make reference to a particular page,
14 if you could just identify that page; but other than that,
15 I would like to ask that the documents before you got to
16 the BCAP report be included within the Shevlin Group
17 Exhibit No. 2.

18 And if we could borrow your copy, Mr. Shevlin,
19 and make a copy of it.

20 MR. STEPTOE: That's no problem, Mr. Guild. I
21 did notice that as the witness went through those documents,
22 in some cases he did not identify all of the documents that

1 were stapled together, if you want to address that.


2 MR. GUILD: Yes. I would like to only include
3 those that he has identified.

4 MR. STEPTOE: Okay. Shall we unstaple them?

5 MR. GUILD: Yes, if that's okay.

6 MR. STEPTOE: We would be glad to do that this
7 afternoon.

8 (Shevlin Deposition Group Exhibit
9 No. 2 additions were marked for
10 identification.)

11  BY MR. GUILD:

12 Q Mr. Shevlin, who prepared your testimony that
13 appears -- the 30 pages behind your affidavit?

14 A I did.

15 Q Did you have any assistance in preparing that
16 testimony?

17 A Editorial.

18 Q And by whom?

19 A By one of my supervisors.

20 Q And who was that, please, that gentleman or
21 lady?

22 A Mr. Marquardt from PGCo to read it for editorial

1 comment, language, English, spelling, punctuation, that
2 sort of thing.

3 Q And who is Mr. Marquardt? Do you have his full
4 name?

5 A Gary Marquardt.

6 Q Do you know how to spell his last name?

7 A M-a-r-q-u-a-r-d-t.

8 Q And what is Mr. Marquardt's position?

9 A I don't know his position title. His position
10 is a lead over a small group of quality consultants.

11 Q And you are among that group?

12 A Correct.

13 Q Is he employed by Phillips-Gettschow?

14 A Correct.

15 Q All right.

16 Did anyone else assist you in your testimony?

17 A No.

18 Q How about your counsel? Did you work with any
19 of the lawyers in preparing your testimony?

20 A They furnished the questions; I furnished the
21 answers.

22 Q Did they participate in the editing process?

1 A Possibly for editorial.

2 Q And who was that, by name?

3 A Phil Steptoe.

4 Q All right, Mr. Shevlin. Can you go through your
5 testimony, please, and identify any changes that you made
6 after the draft answers that you prepared to the questions
7 that were submitted to you by your counsel?

8 A I don't think I understand.

9 Q Can you identify any changes that were made to
10 your testimony?

11 A In substance?

12 Q Any changes at all, sir.

13 A I don't really understand what you are trying to
14 get at.

15 Q Is this testimony that has been filed, Mr.
16 Shevlin, identical to the testimony that you prepared?

17 A Except for grammar, punctuation, spelling and
18 the changes that we discussed earlier.

19 Q Can you identify any of those changes, any
20 changes at all that have been made to your testimony in
21 the drafting and editing process?

22 A I doubt it.

1 Q Take a moment and review the testimony, and if
2 you can identify any, I would appreciate it, please.

3 (Witness reviewing document.)

4 A ~~Some~~ ^{Someone EMS} asked me to explain --

5 Q Where are you at, Mr. Shevlin?

6 A The top of page 12. Someone asked me to explain
7 what I meant by the term "takeout." I remember that.

8 Q All right.

9 And you prepared Exhibit A in response to that
10 question?

11 A Right. And the handwritten sketches, the hand-
12 prepared sketches shown as exhibits, I was asked to prepare
13 those as a visual aid.

14 Q And you prepared those?

15 A I prepared those.

16 Q Those are Exhibits B through --

17 A I think A through E. No, A through D.

18 Q All right.

19 Any other changes?

20 A I think that's all. At least that is all I
21 recognize.

22 Q Okay.

1 Who prepared your attachment -- it doesn't
2 appear to have an identification. It follows Attachment D,
3 and it has the Bates number of E521.

4 A That is part of the BCAP files.

5 Q Who prepared that; do you know?

6 A No, I don't remember.

7 Q What is it? Can you identify it, please?

8 A It's a summary of the findings of the support
9 verification program that we did about a year ago.

10 Q And Exhibit E, can you tell me who prepared
11 that?

12 A I prepared that. It was recovered from the BCAP
13 file. It's my analysis of the findings that occurred during
14 the support reverification program.

15 Q All right. And those are your comments that
16 appear in the right-hand column?

17 A That's correct.

18 Q Mr. Shevlin, I am referring to the documents
19 that you reviewed that your counsel made available to you,
20 and I would like you, if you can, to help me identify some
21 of these, please.

22 Who prepared the document that you described as

1 Summation, E453 and 454?

2 A I don't know. It would have been someone in the
3 CSR Assistant Director's Office, probably.

4 Q And who is the CSR Assistant Director?

5 A Mr. Byers.

6 Q Is that Bob Byers?

7 A Yes.

8 Q How was it made available to you?

9 A It is part of the BCAP file.

10 Q Who is Mr. M.A. clinton?

11 A He was my immediate supervisor during the BCAP.

12 Q And what was Mr. Clinton's position?

13 A His BCAP title was inspection supervisor, and he
14 ^{was} ~~is~~ a contract employee with Daniel International Corporation.

15 Q Is he currently employed at the Braidwood site?

16 A He is currently employed as the Director of
17 Quality Services, Daniel International Corporation,
18 Greenville, South Carolina.

19 Q Is he still at the Braidwood site?

20 A No, he is not.

21 Q He is in Greenville?

22 A Greenville.

1 Q The memorandum, Clinton to Byers, January 22, 1985,
2 ECAP memo 530, with attachments E458 and following, was
3 that prepared by Mr. Clinton?

4 A It is signed by Mr. Clinton.

5 Q Do you know whether he prepared it or not?

6 A It is just an internal office memo advising
7 Byers what we were doing at the moment.

8 Q Did you have occasion to prepare memos for Mr.
9 Clinton?

10 A For his signature?

11 Q Yes.

12 A No.

13 Q So as far as you know, he prepared it himself?

14 A Yes.

15 Q All right. That appears to be workpapers, one
16 entitled "Piping Support Reverification Plan, Analysis of
17 New Observations by Attribute versus Population," page
18 E466 and 467. Do you know who prepared that document?

19 A It was prepared by people working under my
20 control.

21 Q Can you identify who those people are, please?

22 A I can't tell you for sure who prepared that one.

1 Q Well, who worked under your control on this
2 task, or on the task of the analysis of the reverification
3 observations?

4 A David R. Walker.

5 Q Who is Mr. Walker?

6 A Walker is a certified lead quality inspector
7 who works for Daniel.

8 Q A BCAP inspector?

9 A He was a BCAP man.

10 Q Who else?

11 A Howard M. Sigrest.

12 Q How do you spell it?

13 A S-i-g-r-e-s-t.

14 Q All right. And who is Mr. Sigrest?

15 A Certified lead quality inspector with Daniel
16 working for BCAP.

17 Q Were either of these gentlemen BCAP inspectors
18 who were performing the inspection work that was the subject
19 of the reverification?

20 A They were performing special duties during that
21 reverification. They didn't actually do any of the
22 reverifications.

1 Q Did they do any of the initial BCAP inspections
2 that were the subject of the reverification?

3 A Probably.

4 Q They are among the BCAP inspectors who were under
5 your supervision?

6 A Correct. Walker probably did. Sigrest may
7 have.

8 Q Okay. They were BCAP inspectors in the mechanical
9 area, mechanical welding area?

10 A Correct.

11 Toward the end of the end of the plan, I used
12 some of those guys to help just tabulate the information on
13 those spread sheets and things.

14 Q All right.

15 I am looking at a stack of papers that begins
16 with E483. It's a BCAP observation record, Mr. Shevlin.

17 MR. STEPTOE: Could you read that number again?
18 Excuse me.

19 MR. GUILD: Sure. It's E483 and following
20 pages through 507.

21 BY MR. GUILD:

22 Q Can you identify some of the names on this, please,
for me, Mr. Shevlin? It's difficult to read, but under

1 Block 11, Prepared By?

2 A That is Frances Irene Starr, Frances with an
3 "e."

4 Q Who is Ms. Starr?

5 A BCAP inspector.

6 Q In the mechanical welding area?

7 A Correct.

8 Do you want them all?

9 Q No, sir. Let me just have that back. Some I
10 can make out and some I can't.

11 Mr. Sigrest on the bottom, is that his name?

12 A That's correct.

13 Q And that is your signature, Mr. Shevlin?

14 A That's correct.

15 Q E486 in Block 11, Prepared by?

16 A Gary J. Sutton, a BCAP inspector.

17 Q Also a mechanical welding inspector?

18 A All of them are in mechanical welding.

19 Q And there is a line on that same page, E486,
20 that says "I concur" with initials.

21 A Sutton.

22 Q E494 in the Block 11, Prepared by?

1 A Thomas R. Young, a BCAP inspector.

2 Q E495, Block 11?

3 A Frances I Starr, BCAP inspector.

4 Q E500, Block 11, please?

5 A Phil S. Jones, BCAP inspector.

6 Q Document numbered E715 and 16 appears to be from
7 Mr. Clinton to -- I can't make it out.

8 A I did not use that.

9 Q Is that Mr. Clinton's handwriting? Can you
10 identify that?

11 A Yes.

12 Q E717 and 18, titled "Reverification Plan." Whose
13 handwriting is that?

14 A I wrote that.

15 Q And 719. Is that your handwriting?

16 A Yes.

17 Q 720?

18 A It's not mine.

19 Q Is that Mr. Clinton's, if you know?

20 A I don't think I can say for sure.

21 Q Mr. Shevlin, have you had occasion to review
22 the affidavits by Mr. Smith and Mr. Kaushal that were filed

1 in support of the Company's Motion for Summary Disposition
2 along with your own?

3 A Yes, I have.

4 Q Mr. Smith in his affidavit page 18 refers to
5 a performance evaluation program employed for use with the
6 reinspectors, the BCAP QA overview inspectors. Are you
7 aware of that evaluation program?

8 A No.

9 Q Was there an evaluation program for the BCAP
10 inspectors that you supervised?

11 A Yes, there was. That's pretty well described in
12 my affidavit.

13 Q All right.

14 And documents that you identified earlier, E724
15 through E729, are they the product of the evaluation
16 program for your inspectors?

17 A They are a partial product of it.

18 Q What else is there that is a product of that
19 evaluation program?

20 A Certification examination.

21 Q Was there an industrial psychologist involved
22 in the design or implementation of the evaluation program

1 for your inspectors?

2 A I don't know.

3 Q Mr. Smith describes an involvement of an
4 industrial psychologist in the design of what he identifies
5 as the performance evaluation program that was employed for
6 the BCAP QA inspectors.

7 Do you know whether there was any comparable
8 program for the BCAP inspectors that you supervised?

9 A Not to my knowledge.

10 Q More particularly, Mr. Smith describes a program
11 in which an industrial psychologist was involved, which he
12 describes as initiated to determine the extent to which an
13 overinspector would agree or disagree with the initial
14 inspection results of the original inspector. Again, that's
15 page 18 of Mr. Smith's affidavit.

16 Was there any comparable program that you are aware
17 of for your inspectors, for the BCAP inspectors that you
18 supervised?

19 A No.

20 Q Looking at E724, the employee evaluation for one
21 of your inspectors -- this is one of your inspectors, is it
22 not?

1 A Correct.

2 Q Under the "Remarks" section, the notation of a
3 component identification, one or more component identifica-
4 tions. What is the significance of the notation in the
5 "Remarks" section?

6 A It's a number of component support inspections
7 that this individual performed, and then at my direction a
8 lead quality inspector went out and reinspected them.

9 Q Why was that?

10 A In this particular case because a question had
11 come up about some of this person's work during the CAT.

12 Q A question by whom?

13 A The CAT inspector.

14 Q By an NRC CAT inspector?

15 A Correct.

16 Q With respect to those specific components?

17 A No.

18 Q What is the significance of the identification
19 of those specific components?

20 A They are randomly selected pieces of work that
21 the individual did.

22 Q Is that a part of the reverification program?

1 A No. They are part of a follow-up action that
2 is described in my affidavit.

3 Q After the reverification program?

4 A That particular item has nothing to do with the
5 support reverification program.

6 Q All right.

7 Well, a follow-up to what, then, Mr. Shevlin?

8 A It's a follow-up -- that particular individual
9 is one that was involved in the CAT finding on the piping
10 configuration. After I was satisfied with the resolution
11 of the piping configuration, I directed two lead inspectors
12 to separately and independently go out and look at some more
13 of this person's work.

14 Q All right. And instead of in the piping configu-
15 ration area, you looked in the component support area.

16 A Specifically, configuration, which is the same
17 *ID. idea. LMB*

18 Q But configuration of supports instead of piping?

19 A Configuration of whatever the inspector happened
20 to be looking at.

21 Q By the inspector, you mean the subject of the
22 review by the lead?

1 A No, by what the inspector was working on.

2 Q The original inspector?

3 A Correct. The original inspector would be
4 assigned a piece of work and then randomly the lead
5 inspectors would pick up some of that work and go back out
6 and look at it, overinspect.

7 Q And you directed the lead to do that?

8 A Correct. They were designees or delegated.

9 Q And did you direct the leads to look at a specific
10 type of work?

11 A Specifically, to go after that inspector's work
12 on configurations, which would include dimensional verifi-
13 cations, location orientations and such as that.

14 Q Did you ask him to look at configuration other
15 than piping configurations for that inspector?

16 A I asked them to look at several of the next
17 pieces of work that that employee had completed. As it
18 happened, as it turned out, the next several pieces of work
19 happened to be piping supports rather than piping.

20 Q You didn't specify the type of work, though, just
21 the next work that he did?

22 A The next work. I specified the type of informa-
tion or the type attribute or the type of operation.

1 Q And that was configuration?

2 A Configurations, dimensions.

3 Q And were there any adverse findings by the lead's
4 overinspection?

5 A No.

6 Q There appeared to be six separate employee
7 evaluations, five other than the ones we have just
8 spoken of, and were each of those inspectors subject to an
9 overinspection by a lead at your direction?

10 MR. STEPTOE: Objection. May I see that for a
11 moment, Bob?

12 (Discussion off the record.)

13 MR. STEPTOE: On the record.

14 Mr. Guild, my problem is that on those forms,
15 some inspectors are listed more than once, and I'm afraid
16 that your question implies that there were six inspectors
17 that were overinspected.

18 MR. GUILD: Oh, I didn't mean to misstate it.
19 I stand corrected.

20 BY MR. GUILD:

21 Q Let me see if I can clarify. Maybe you can help
22 me clarify it, Mr. Shevlin. There are six evaluation forms,

1 and it appears that they do cover several forms for the
2 same individual. I see an inspector P.J.T. You use the
3 initials to identify these inspectors in your testimony, do
4 you not? Are the initials that appear in your testimony --

5 A In my testimony? I don't remember using any
6 initials.

7 Q Well, perhaps it was Mr. Smith's, but there are
8 references to inspectors. I am just trying to use the same
9 form of reference that was employed. If it wasn't in yours,
10 it was in one of the other affidavits.

11 This is an inspector, Pam J. Thompson, and
12 that's the inspector who is the subject of the overview by
13 the lead at your direction.

14 A Correct.

15 Q And for that inspector, which appears on E724,
16 there is -- and E727, another employee evaluation listing
17 the same inspector.

18 Why is there more than one?

19 A I asked that an effort be made that more than one
20 lead inspector do it. I think you will find that the lead
21 inspector doing the overinspection is not the same person
22 in each case.

1 Q All right. And 724 appears to be Mr. -- is it
2 Norris?

3 A Right.

4 Q And 727 is Mr. Norris again.

5 A Okay.

6 Q Are those two separate overinspections?

7 A Yes.

8 Q By the same lead, though.

9 A Yes. I had two guys doing that.

10 Q The second document, E725, is Mr. Jones, the
11 inspector, and the evaluator is Mr. Sigrest?

12 A Yes.

13 MR. STEPTOE: It's Mrs. Jones.

14 MR. GUILD: Mrs. Jones.

15 Phil S. Jones?

16 MR. STEPTOE: Oh, I'm sorry. I have confused
17 this whole thing. I'm sorry.

18 BY MR. GUILD:

19 Q Phil Jones, by Mr. Sigrest, and the 726 is
20 Phil Jones by Mr. Norris; yes?

21 A Yes.

22 Q 728, Phil Jones by Mr. Sigrest.

1 A Right.

2 Q 729, Phil Jones by Mr. Norris.

3 A Right.

4 BY MR. GUILD:

5 Q Mr. Shevlin, the series of documents that begin
6 with E483 and the following documents, they appear to be
7 BCAP observation records, and I believe you stated that
8 some of these were records of the observations resulting from
9 the reverification program?

10 A I believe so.

11 Q Now, there appear -- the documents are headed
12 "BCAP Observation Record," page 1 of 3, and suggest that
13 there are additional pages to the BCAP observation record
14 form? Is that correct? 2 and 3?

15 A Well, partially correct. The page numbering
16 system is part of a format. Page 1 was always prepared
17 by the inspection group. Pages 2 and 3 were never prepared
18 by the inspection group. They were subsequent actions.

19 Q All right.

20 E483 is page 1 of 3, as is 484, 485, 486, 487,
21 489, 490, 491, 492; 493 happens to be page 2 of 3, and that
22 bears the title at the top that says, "Evaluation and

1 Determination of Validity."

2 By whom is that portion of the observation
3 record prepared?

4 A That portion was prepared by the Engineering
5 Department.

6 Q Whose Engineering Department?

7 A BECAP'S? BCAP'S. ^{Ents}

8 Q There appear a series of initials on this page
9 E493, page 2 of 3 of the BCAP observation record. Do you
10 know who that is? It appears to be initials "BWG."

11 A I don't remember. It's not anyone from the
12 inspection group.

13 Q All right.

14 Who are the engineering people that perform the
15 evaluation and determination of validity, the BCAP observa-
16 tions?

17 A I don't think I understand?

18 Q Well, who are they employed by?

19 A Primarily they were employed by Stone & Webster.

20 Q Were there any Sargent & Lundy people performing
21 evaluations and determinations of validity?

22 A I don't know.

1 Q You are not aware of any?

2 A Not in the areas that I dealt with, I don't
3 remember any.

4 Q Was Stone & Webster under contract to Edison to
5 perform the engineering evaluations of validity for BCAP
6 observations?

7 A Yes, they were part of the BCAP organization.

8 Q How many Stone & Webster people were doing that
9 work?

10 A I don't know. A fairly large number.

11 Q More than ten?

12 A Yes.

13 Q How about in the welding and mechanical area?

14 A Our engineers were primarily Stone & Webster.

15 Q Yes. And how many Stone & Webster people in the
16 welding and mechanical area that performed the evaluations
17 and determinations of validity?

18 A I don't know.

19 Q Do you have an estimate? More than ten?

20 A Yes. Way more ten.

21 Q More than 100?

22 A No.

1 Q Somewhere between 10 and 100?

2 A Yes. It was a fairly large number. There were
3 a number of groups, sub-organizations.

4 Q And all of them did evaluations, ^{BCAP} observations
5 for validity?

6 A Within their own area of interest.

7 Q All right.

8 This is not a real good copy, Mr. Shevlin, but
9 this page 2 of 3, that is, E493, appears to accompany page
10 1 that precedes it, and it appears to be observation No.
11 CSR-1-M-3, and the rest is blocked out, but there is a
12 package number under it which appears to be 008. Would that
13 be the BCAP observation number?

14 A The package number is the BCAP package, which is
15 traceable to a discrete item. That number is also the root
16 of the BCAP observation number.

17 Q Can you tell what the observation number is in the
18 document that I am showing you? That is E492.

19 A Not from that copy.

20 Q Are there more digits than there are in the package
21 number?

22 A It is the package number, suffixed by another
number, 1, 2, 3 sequentially.

1 Q The page 2 for that observation reflects a
2 determination that that's a valid observation, and then
3 below that appear to be the initials "BWG." Would that be
4 the person who made the evaluation?

5 A Yes.

6 Q And you don't know who that is, by name?

7 A Not by those initials.

8 Q Will you describe the process of determining
9 the validity of a BCAP observation?

10 A It was a number of steps. When the inspector
11 prepared the observation, either myself or one of my desig-
12 nated lead inspectors reviewed it to determine its
13 suitability for further processing. If it was determined
14 suitable, it would go to the engineering group. They would
15 review it for validity, validity meaning that the
16 observation described was, in fact, a violation or a failure
17 to comply with the inspection instructions given to the
18 inspector.

19 ^{Ent}
20 And item could be deemed invalid by the engineering
21 group coming up with additional information. For example,
22 if the instructions said everything shall be painted green
 and we found something painted red, we would prepare an

1 observation. The engineer, then, might say, ah, but here
2 is something that came out that the architect engineer
3 issued or something that changed that requirement, and
4 therefore, what you found is acceptable, your observation
5 is not valid.

6 If they determine that our observation is not
7 valid, it had to be returned to us for our concurrence.

8 Q Whose concurrence, Mr. Shevlin?

9 A Inspection. Generally the original inspector.
10 If he was not available, then it was my responsibility.

11 Q Did the BCAP procedure specify that the original
12 inspector concur or have an opportunity for concurrence in
13 validation of an observation?

14 A If it was ^{invalid} ~~valid~~.

15 Q And did the procedure specify that in the
16 absence of his availability, that would be your task?

17 A His immediate supervisor. Yes, that was clearly
18 defined in the procedures.

19 Q How do you use the term "suitability" that you
20 employ when you describe your review of the observation that
21 was written by your inspector?

22 A My general approach there was an outright
comparison of the requirement against the finding to assure

1 that the inspector was not reporting something that did, in
2 fact, meet the criteria he was given up front. So, unlike
3 the engineering evaluation, my evaluation was straightfor-
4 ward. - "Yes, what is written here does violate these
5 instructions."

6 Q Well, in your example about the green and red
7 paint --

8 A I would have made that observation suitable
9 because the instruction in my had ^{in fact} says everything has got
10 to be green. I did not pursue it any further to see if
11 there was some other document that made it all okay. That
12 wasn't my business.

13 Q Even if you knew that there was another document?

14 A It didn't make any difference. It wasn't
15 part of my inspection package. I would have made it
16 suitable.

17 Q Well, how is the judgment that there was some
18 further direction that said that, yes, a color was
19 acceptable -- green or red, or red or green, whichever was
20 the case in your example -- how was that an engineering
21 evaluation?

22 A They were responsible to assure that what we
wrote up was, in fact, a deficient item. They were
responsible to go research all of the deficiency documents

1 or design changes or what have you that might make that
2 item unique instead of part of the general population.

3 Q Well, in your example, shouldn't any change
4 in the specifications, such as an instruction by Sargent &
5 Lundy that a green was acceptable or red was acceptable,
6 shouldn't that have been included in the package that was
7 used by your inspector?

8 A If it was known up front, it would have been.

9 Q Known up front by whom?

10 A By the engineer who prepared the package.

11 Q Shouldn't that engineer have made sure that the
12 BCAP inspection was to a current revision of the drawing or
13 specification?

14 A No. It was to the revision at x date. Subsequent
15 developments might have changed the requirement for that as
16 a discrete item as opposed to the rest of the population.

17 Q Well, let's be clear, then. BCAP was inspecting
18 to requirements as of a particular date?

19 A The physical inspection, yes.

20 Q As opposed to current specifications.

21 A That was a subsequent step.

22 Q And that subsequent step, determining whether a

1 failure to meet historic acceptance criteria was, nonethe-
2 less, acceptable given subsequent revisions to those
3 acceptance criteria, that was made by the engineering
4 evaluation of validity?

5 A Correct.

6 MR. STEPTOE: Objection. I'm sorry. I couldn't
7 follow the question.

8 MR. GUILD: I think the witness followed it.

9 BY MR. GUILD

10 Q Is that an accurate statement?

11 MR. STEPTOE: Well, I couldn't follow it.

12 Would you read back the question, please?

13 (The reporter read the record as requested.)

14 MR. GUILD: Mr. Steptoe, do you have an
15 objection?

16 MR. STEPTOE: No.

17 BY MR. GUILD:

18 Q You heard the question the first time and it was
19 reread, and your answer is still yes, that was correct?

20 A Yes.

21 Q Did the BCAP procedure, Mr. Shevlin, specify your
22 role in making suitability determination?

1 A Yes.

2 Q Did it use that term, "suitability"?

3 A Yes.

4 Q Did it define the term?

5 A I don't remember.

6 Q Can you give me a reference? Do you recall the
7 procedure citation describing your role in making a suitability
8 review? It will not be held against you if you cannot
9 recite chapter and verse, Mr. Shevlin.

10 A It could have been either of a number of
11 procedures. There was a procedure that dealt exclusively
12 with processing observations. There was a procedure that
13 dealt with performance of inspections. It may have turned up
14 in either of those. I don't remember which.

15 Q How about the procedure as it detailed the
16 concurrence of the original inspector in the validity
17 determination by the engineering people?

18 MR. STEPTOE: Objection. Is your question can
19 he identify that procedure?

20 BY MR. GUILD:

21 Q Sure. Yes. Can you do that?

22 A I think it is in the observation procedure.

1 Q What is the practice if the original inspector
2 declines to concur in the invalidation determination?

3 A That was provided for procedurally.

4 Q In the observation processing procedure?

5 A I don't remember. I am not prepared with this
6 much time elapsed to state what provision was in what
7 procedure. It has been too long.

8 Q All right, sir.

9 A I do know that it was in the procedure manual.

10 Q All right. And what did the procedure manual
11 specify in the event that the original inspector declined to
12 concur in the invalidation?

13 MR. STEPTOE: I will impose a general relevance
14 objection. I'm not instructing the witness not to answer,
15 but I think this is far afield from the contention without
16 some sort of foundation that that occurred in this case.

17 BY MR. GUILD:

18 Q Can you try to answer the question?

19 A Would you repeat it, please?

20 Q Sure.

21 What did the procedure call for in the event the
22 original inspector declined to concur in the invalidation of

1 his observation?

2 A Some series of tiered evaluations, with the
3 ultimate decision by the director, I think.

4 Q And the director of BCAP, Mr. Kaushal?

5 A Yes. I believe that's what it said.

6 Q And the procedure also provided the same process
7 in the event your inspector was unavailable and it was you
8 that declined to concur?

9 MR. STEPTOE: Objection. Lack of foundation.

10 THE WITNESS: We are getting too far into the
11 specific procedure requirements, which I have not looked at
12 in quite some time.

13 BY MR. GUILD:

14 Q Okay. Just tell me that if you don't recall.

15 A I'm not able to quote what is in the BCAP
16 procedures at this time.

17 Q All right.

18 Did you ever decline to concur in an invalidation
19 determination?

20 MR. STEPTOE: Continuing objection to relevance and
21 lack of foundation.

22 THE WITNESS: I don't remember.

1 BY MR. GUILD:

2 Q Did any of your inspectors ever decline to
3 concur in an invalidation determination?

4 A Not that I recall.

5 MR. STEPTOE: Was your question directed -- I
6 didn't mean to interrupt the witness' answer.

7 Was your question directed to an observation and
8 validation made in connection with the reverification of
9 pipe supports and restraints which are the subject of the
10 witness' affidavit?

11 MR. GUILD: It was a general question.

12 BY MR. GUILD:

13 Q And the answer was you don't recall?

14 A I don't remember it happening.

15 Q Would you have known about such an action if it
16 had occurred?

17 A Yes.

18 Q Do you know whether it ever occurred, whether a
19 BCAP inspector ever declined to concur in an invalidation
20 determination?

21 MR. STEPTOE: Objection. At this point we are
22 really going far afield, not only from the contention but

1 from the agreement that you had with Mr. Gallo that you
2 would limit your questioning to the subject of the
3 witness' affidavit. This witness did not come prepared to
4 talk about BCAP program in general, nor did I come prepared
5 to represent him in the deposition in which things like this
6 would be gone into.

7 MR. GUILD: All he has to do is answer yes or no
8 if he does or doesn't, and I would like an answer to the
9 question.

10 MR. STEPTOE: So is your representation that you
11 will move on after that and not go on?

12 MR. GUILD: I don't know what the answer is, Mr.
13 Steptoe, but I believe that the matter is obviously relevant.
14 It is relevant to just not this contention; it is relevant
15 to the quality assurance contention generally. I am
16 entitled to ask the question, and I would like the answer
17 of the witness.

18 MR. STEPTOE: Mr. Guild, do you deny that you had
19 an agreement with Mr. Gallo?

20 MR. GUILD: I don't want to get into a fight with
21 you about it. My time is valuable. I intend to press on
22 and get the deposition done as quickly as possible. But my

1 notice of deposition asked the witness to be prepared to
2 respond generally on the subject of quality assurance at
3 Braidwood. The obvious focus of the examination is on the
4 subject of his affidavit, but I don't waive any right to
5 ask what is an obviously relevant question.

6 If you want to instruct your witness not to
7 answer the question, I would be more than happy to take it
8 to the Chairman and get it resolved. I just think that if
9 you intend to interpose objections on what are obviously
10 unsupportable, narrow grounds of relevance, then perhaps the
11 most efficient thing to do is to get a Board decision on
12 the question.

13 I think you will find, Mr. Steptoe, that the
14 practice in these depositions has been to recognize that
15 the rules of the Commission permit discovery deposition
16 questions that are calculated to lead to the identification
17 of relevant evidence, and I represent to you that the last
18 question certainly was designed to do that.

19 MR. STEPTOE: I have no difficulty about
20 discovery which is intended to elicit information relevant
21 to the quality assurance contention; however, I asked you
22 a question, whether you deny that you had an agreement with
Mr. Gallo that the questioning in these depositions would
be limited to the subject matter of the deponent's affidavit.

1 MR. GUILD: And I am not going to be cross
2 examined by you, Mr. Steptoe.

3 MR. STEPTOE: Do you refuse to admit or deny that
4 you had such an agreement?

5 MR. GUILD: I am not going to be cross-examined
6 by you, sir, on that subject or anything else. Mr. Gallo's
7 agreement with me about the circumstances of conducting these
8 depositions will speak for itself. The notice of depositions
9 speaks for itself. I am not going to fight with you about
10 it.

11 Now, if you think that your position is such
12 that you want to instruct your witness not to answer the
13 question, please do so and let's move on, but I don't want
14 to get into any kind of acrimony with you, Mr. Steptoe, on
15 that subject. Please don't bait me, please don't cross-
16 examine me on this point.

17 If you think that the question is improper and
18 feel comfortable instructing your witness not to answer,
19 please do, and let's just move on.

20 MR. STEPTOE: Let me just state for the record
21 that my understanding from Mr. Gallo was that he had an
22 agreement with you that these depositions would be limited to

1 the subject matter of the witness' affidavit. Now, I
2 have not interposed an objection to questions that seemed
3 to me to be within the parameters of that subject matter,
4 and indeed, we have gone beyond that, but there has been
5 no showing of a foundation that this question, the pending
6 question, is directed towards either the affidavit or
7 Contention 12J, and I did not prepare myself or prepare the
8 witness to go through open-ended discovery in this case about the
9 results of the BCAP report.

10 I am aware that the Notice of Deposition did
11 state that the deposition shall be on the subject of the
12 witness' knowledge of the quality assurance deficiencies
13 at the Braidwood Nuclear Power Station alleged in Intervenors'
14 amended quality assurance contention. However, I subse-
15 quently spoke with Mr. Gallo, who told me specifically that
16 you had an agreement and understanding. On that basis, on
17 the basis of an understanding which you, for reasons which
18 are beyond me, refuse to discuss, I am going to instruct
19 this witness not to -- I am going to advise this witness that
20 he is not required to answer your question.

21 I am delighted to take this up in front of the
22 Board, and then you can tell the Board what your understanding

1 of your agreement with Mr. Gallo is. And I find --

2 MR. GUILD: Mr. Steptoe, if you would just tone
3 down the voice. There is no need to raise your voice to me.
4 If you would just ask me what your agreement was, I would be
5 happy to tell you, but I am not going to be cross-examined
6 by you, sir. I am not going to be treated like I am
7 obligated to respond to what is just a tactless and arrogant
8 approach to trying to resolve a matter in dispute.

9 There is no need to fight about this. Now, if
10 you would like to know what the nature of the agreement is,
11 I will be happy to tell you, but I'm not going to be
12 cross-examined by you, sir, or anybody else.

13 MR. STEPTOE: Well, I certainly was not trying --

14 MR. GUILD: Now, do you want to instruct your
15 witness not to answer the question and trouble the Chairman
16 with resolving this dispute, or do you want to be civil about
17 it? If you would like to be civil about it, I will be happy
18 to try, but you are trying to be provocative and there is
19 no need for it.

20 MR. STEPTOE: I don't think I'm trying to bait you.
21 I don't think I'm trying to be provocative. I don't think
22 I am being uncivil. I don't think I have been raising my

1 voice unduly, certainly no more than you.

2 MR. GUILD: Only in response to you, sir.

3 Now, do you want to know what the agreement is?
4 Do you want to get down to that or do you want to haggle,
5 for purposes that are unclear to me?

6 MR. STEPTOE: I do want to know what the agreement
7 is, and you are refusing to answer.

8 MR. GUILD: No, sir. You didn't ask me. If you
9 would just ask me, I would tell you. But I am not going to
10 be cross-examined by you and I'm not going to be compelled
11 to respond to questions with yes or no answers. I'm not
12 under oath and I'm not testifying here, sir.

13 Mr. Gallo, who is well known for transgressing
14 agreements in this proceeding, is hardly in a position to
15 be dictating terms to me on this subject.

16 MS. CHAN: Mr. Guild, perhaps you can just --

17 MR. GUILD: The fact of the matter -- excuse me,
18 Ms. Chan. The fact of the matter is Joe Gallo asked me: How
19 much do I have to prepare for these depositions, Bob; do I
20 have to be prepared to answer -- to have my witnesses
21 respond to general discovery on the quality assurance
22 contention?

I said: Joe, I have got a Tuesday, February 18th

1 deadline to respond to your motions for summary disposition;
2 as much as I would like to ask the bulk of my discovery
3 questions of the witnesses between now and then, I simply do
4 not have the time to do that, and I can assure you that I
5 am going to do the best I can to focus on the subjects
6 which are the summary disposition questions. I told him just
7 that, or words to that effect.

8 I signed nothing in blood, and my notice speaks
9 for itself. All right?

10 Now, if that is troubling to you, sir, and you
11 don't wish to have your witness respond to questions,
12 including the pending one, please tell him not to answer the
13 question and we will go to the Board with that.

14 I tried to accommodate your colleague in the
15 face of a notice that you have in front of you, sir, by
16 trying to give him some informal representation about what
17 the scope of my examination would be. I entered no agree-
18 ment with Mr. Gallo, and it, frankly, sticks in my craw that
19 someone from Isham, Lincoln & Beale would have the gall to
20 try to suggest to me that honoring agreements is a matter of
21 question on my part, a firm that I represent to you has not
22 demonstrated a particularly sound track record of honoring

1 agreements in this proceeding with this counsel.

2 Now, I hope, Mr. Steptoe, that you don't intend
3 to enter on to the tradition that your colleagues have
4 established in this proceeding in that regard, but the fact
5 of the matter is the notice speaks for itself. I told you
6 what I represented to Mr. Gallo, and I represent the same
7 thing to you, sir. I don't believe the question I last
8 asked him in any respect transgresses any understanding,
9 agreement or representation I have with your colleague, Mr.
10 Gallo.

11 Any further questions?

12 MR. STEPTOE: Ms. Chan, did you have something
13 to say?

14 MS. CHAN: I was just going to suggest that the
15 notice of deposition says that the inquiry will be into the
16 information which serves as the basis for the witness'
17 affidavit in support of Applicant's December 21, 1985
18 Motion for Summary Disposition, and that any subsequent
19 discussions that you might have had, Mr. Guild, with Mr.
20 Gallo I assume would not have broadened that notice.

21 MR. GUILD: Ms. Chan, I appreciate your effort
22 to help, if that's what it was, but you neglected to read
the part that you initially read of the notice of deposition

1 which very clearly states that it's on the subject of his
2 knowledge of quality assurance at the Braidwood facility.

3 Mr. Steptoe, do we have a problem?

4 MR. STEPTOE: Yes, I think we do have a problem.
5 I don't intend to respond to your statements about my firm
6 or my co-counsel, but I reject them. I am instructing the
7 witness or advising the witness that he need not answer the
8 question that is pending. However, I want to make it
9 absolutely clear that you may pursue questions, for example,
10 whether there were any -- questions reasonably related to
11 Contention 12J or the subject matter of his affidavit.

12 For example, you may ask him, and I have no
13 objection, whether there were any observations compiled dur-
14 ing the course of the reverification program which were
15 subsequently deemed to be invalid, and of those, whether
16 there were any which a witness -- which the original
17 inspector refused to concur in. All of that is perfectly
18 legitimate inquiry. But the open-ended inquiry which you
19 seem preparing to embark upon seems to me to be beyond the
20 scope of the representation and understanding you had with
21 Mr. Gallo.

22 MR. GUILD: The simple question that is pending

1 is whether he is aware of any instance where there has been
2 a failure to concur in BCAP observation invalidation.

3 MR. STEPTOE: Yes, sir, and I believe --

4 MR. GUILD: And you believe that is an objection-
5 able question? That is your position, sir?

6 MR. STEPTOE: Without limitation to the subject
7 matter of the reverification program?

8 MR. GUILD: The witness has stated that he
9 cannot recall to the series of questions that preceded that.
10 Now, I believe I am entitled to an answer whether he has
11 any knowledge there has ever been a failure to concur in a
12 BCAP invalidation decision.

13 If you want to stick by that and instruct your
14 witness not to answer that question, let's be absolutely
15 clear. That is the question. I am trying to probe the
16 witness' knowledge.

17 MR. STEPTOE: That's correct. I am advising him
18 that he need not answer that question, but a more limited
19 question certainly would be appropriate.

20 MR. GUILD: There is no reason in the world why
21 I need to limit my questions to satisfy this scope notion
22 that you have. I am entitled to know whether he has any
knowledge on that subject.

1 Mr. Steptoe, where are you coming from on that?

2 MR. STEPTOE: You can notice up his deposition
3 again and we will have time to prepare for it, but having
4 been misled by your representation to Mr. Gallo, I am not
5 going to see you run roughshod over me simply because you --

6 MR. GUILD: Let's go off the record.

7 (Discussion off the record.)

8 MR. GUILD: Back on the record.

9 Just to be clear, the record should be reflect
10 that the documents that Mr. Shevlin identified that were
11 provided by his counsel, beginning with E453 and, not
12 necessarily consecutively, but ending with E730, should be
13 included in what has been marked as Group Deposition Exhibit
14 2 to his deposition.

15 Mr. Steptoe, on the basis of your position that
16 you stated and your instructions to the witness not to
17 respond to my last question or series of questions, I intend
18 to recess the deposition at this point.

19 MR. STEPTOE: Before you do, sir, your first
20 statement was document's E453 through E730 should be
21 included as exhibits to the deposition?

22 MR. GUILD: The last number was 730, yes.

1 They are not necessarily consecutive. That just happens to
2 be the bottom of the stack of paper that the witness went
3 through.

4 MR. STEPTOE: Okay. Now, you will recall that
5 the witness did not indicate that all of those documents
6 were used as the basis for his affidavit, and we earlier
7 had an agreement that I was going to go through and pick
8 out the ones that he had not identified and remove them
9 from the stapled packages.

10 Do you still want me to do that?

11 MR. GUILD: Yes, please. The record should
12 reflect the documents that he identified, and those are
13 the only ones that I intend to have included in the
14 Deposition Exhibit 2.

15 MR. STEPTOE: Now, as for your intent to recess
16 the deposition, that is your prerogative, of course. I want
17 to make it clear that I am not interposing any objection
18 to discovery during this deposition of any facts which are
19 relevant to his affidavit, the scope of Contention 12J.
20 If you want to limit your pending question or try to
21 establish a foundation, any foundation, between that and the
22 scope of Contention 12J or Mr. Shevlin's affidavit, that is

1 fine.

2 MR. GUILD: I would --

3 MR. STEPTOE: Excuse me. Let me just finish one
4 more thing. I'm sorry.

5 I understood your line of inquiry to be an
6 open-ended inquiry into BCAP procedures in general and BCAP
7 observations in general rather than something confined to
8 the subject matter of his affidavit and your representation
9 or agreement with Mr. Gallo.

10 MR. GUILD: I think our positions are clear, and
11 I disagree with yours, sir, and stand by mine, and
12 represent to you that the questions I have posed that you
13 have instructed him not to answer are relevant to the subject
14 matter noticed, the subject matter of his affidavit, and are
15 within the scope of any agreement that I have with your
16 colleague, Mr. Gallo.

17 MR. STEPTOE: Well, if you will explain to me
18 how it is relevant to his affidavit, I will be glad to
19 withdraw my objection.

20 MR. GUILD: I have done stated all I need state,
21 Mr. Steptoe, and I don't intend to debate the matter with
22 you any further. For my part, the deposition is recessed

1 at this point.

2 MS. CHAN: The Staff has no questions.

3 MR. STEPTOE: I would like to take ten minutes
4 to talk with the witness and see whether redirect is
5 appropriate at this time.

6 (Recess.)

7 EXAMINATION

8 BY MR. STEPTOE:

9 Q Mr. Shevlin, referring to pages 26 and 27 of
10 your affidavit, you discussed the results of the reverifica-
11 tion program for supports and restraints. I believe, as
12 corrected, you referred to 21 new observations were issued
13 against a population of 160 supports.

14 Do you follow where I am reading from?

15 A Yes.

16 Q How many of those observations were valid and
17 invalid?

18 A Probably about half and half.

19 Q Okay.

20 In determining the results of the reverification
21 program for your purposes, what was the relevance of the
22 determination of validity or invalidity?

1 A None.

2 Q Did you know whether those observations were
3 valid or invalid when you analyzed those 21 observations?

4 A No.

5 Q Did you know whether those observations were
6 valid or invalid when you made your recommendation to your
7 superiors as to whether BCAP inspections of pipe supports
8 and restraints could continue?

9 A No.

10 Q Why didn't you know whether those observations
11 were valid or invalid?

12 A I didn't see it as being relevant to what I was
13 doing. The validity determination came later, and what we
14 were trying to find out here was based on the instructions
15 in hand, had the inspector done what he was supposed to do or
16 had he not?

17 So the fact that it may later turn invalid based
18 on something that we didn't know about at the time of the
19 inspection really shouldn't have entered into it.

20 Q Do you know whether any of the 21 new observations
21 which resulted from the reverification program for supports
22 and restraints were later invalidated and the original

1 inspector contested that determination?

2 A No. I mean yes, I do know. No, there was no
3 contest.

4 Q Do you know why Exhibit Nos. E483 through -- I
5 need to see them, excuse me -- through E507 do not in
6 general contain pages 2 and 3 of the BCAP observation
7 record form?

8 A Depending on what point they were obtained or
9 removed from the system for copying, they may not have
10 supposed to have been. Pages 2 and 3 were not used by the
11 inspector. If the inspector needed additional room to write
12 or to provide a picture or something, he would have made an
13 attachment to page 1.

14 Page 2 was then used by the BCAP engineer, and
15 page 3 was then used by the architect engineer. Normally
16 we would never receive a copy of it. We didn't need it for
17 anything.

18 Q Why did you order an overinspection of Mr. Jones'
19 work?

20 A Because some of the findings -- some of the CAT
21 team findings were on work that Mr. Jones had done.

22 Q What are the similarities or differences between

1 configuration inspections of piping and configuration
2 inspections of pipe supports?

3 A Not a lot. The idea is dimension, location,
4 orientation in relationship between the parts, angles,
5 slopes. In that respect, there is probably not an
6 appreciable difference in inspecting the configuration
7 of anything versus anything.

8 Q Do you have an opinion as to the relevance of
9 the results of overinspections, configuration inspections of
10 pipe supports and restraints in assessing the ability of
11 an inspector to perform configuration inspections of piping?

12 A In this case, the case of the overinspection
13 sheets we have seen, the relevance is clear in that the
14 interest was is this inspector paying close and careful
15 attention to what she is doing in her configuration
16 inspections? That was the object, not the object of trying
17 to find out whether a given piece of hardware was any good.
18 The object was trying to find out is this inspector going
19 out here and paying attention to what she is doing or not,
20 or what he is doing or not.

21 Q Do you have an opinion as to whether the BCAP
22 inspectors who performed the reverification program inspec-
tions of work which had initially been inspected by BCAP

1 inspectors were likely to agree or disagree with the
2 results of the original inspections?

3 A Well, there is no opinion to that. They didn't
4 know the results of the original inspections. There was no
5 opportunity to agree or disagree. It was as if it were a
6 brand new inspection.

7 Q Were the BCAP inspectors who performed those
8 reinspections the same BCAP inspectors who performed the
9 original inspections?

10 A No.

11 MR. GUILD: Asked and answered.

12 MR. STEPTOE: By whom?

13 MR. GUILD: By you. It's in his own document, and
14 there is really no necessity for you asking questions that
15 are already asked in the man's own affidavit, Mr. Steptoe.

16 MR. STEPTOE: I am not sure whether the witness'
17 answer -- you got the witness' answer?

18 THE REPORTER: Yes, I got the witness' answer.

19 MR. STEPTOE: That concludes my redirect.

20 FURTHER EXAMINATION

21 BY MR. GUILD:

22 Q When did you find that there were 21 observations

1 resulting from the reverification and not 20?

2 MR. GUILD: Do you have something to say?

3 MR. STEPTOE: Well, it seems to me outside the
4 scope of redirect, but if you want to continue with this
5 deposition whether than recess it, that's fine.

6 MR. GUILD: No, sir. You raised the point. I
7 believe it is in the scope of redirect.

8 BY MR. GUILD:

9 Q Would you answer the question, please?

10 A The little spread sheet that showed 20 was wrong,
11 and I found it to be wrong by studying my own analysis of
12 the individual observations. I just noticed, hey, this is
13 not 20, it's 21.

14 Q Was it an arithmetic error?

15 A Or a transposition. Arithmetic or a transposition.

16 Q Do you know?

17 A No. That sheet was made, by who, I don't know
18 when, a long time ago. I got it out of the files.

19 Q And when did you identify that error?

20 A Recently. Since I prepared my affidavit.

21 Q When were the determinations of validity or
22 invalidity made for the observations that were identified

1 during the course of the reverification program?

2 A Well, as we finished the inspections, the
3 reinspections, we turned the packages and the new observa-
4 tions to Engineering, and then their validity determination
5 would start. So it was after we finished, on a package-by-
6 package basis as opposed to the whole thing. The validity
7 determination would start on an item-by-item basis after we
8 finished the inspections.

9 Q For any item, was the invalidation or validation
10 determination made before you reported on the results of the
11 reverification program?

12 A Possibly. It's possible.

13 Q In which instances?

14 A I don't know. I don't know that it was or it was
15 not. I'm saying by the system under which we were working,
16 that possibly might have happened. It may not have, too.
17 I don't know.

18 Q And those determinations of validity or invalidity
19 came back to you or to the original inspector for concurrence
20 after the decision was made, after the determination of
21 validity or invalidity was made?

22 A Yes.

1 Q And so you would have had knowledge of what the
2 decision was on validity or invalidity at that point?

3 A Yes.

4 Q Is the counting error that you corrected, Mr.
5 Shevlin, the change to "8" from "7" and "13" for "12" in
6 the totals, related to the error in counting observations
7 in 21420?

8 A I'm sorry. I don't think I understand.

9 Q Okay. You made corrections at the outset of
10 your deposition, and if you want me to --

11 A No, I know the correction you are talking about.

12 Q All right. Is there a relationship between
13 those corrections, the numbers "8" and "13", and the
14 correction of the total observations 21420? Is it the
15 same error?

16 A Yes. Yes. This document --

17 Q You have to identify it for the record so we all
18 know what you are talking about.

19 A E515 and its subsequent pages is a description of
20 the new observations found.

21 Q Yes, sir.

22 A There are 21 items on there. The corrected

1 document miscounts the "21" here to "20." It's just a
2 tabulation, a quick graph type thing for someone to look at.
3 The real information is here.

4 Q And that is the source of the same -- the same
5 error led to the correction of the totals, "13" for "12,"
6 and "8" for "7."

7 A Yes.

8 MR. GUILD: That's all I have.

9 MR. STEPTOE: May I have 30 seconds outside with
10 the witness, please?

11 (Recess.)

12 FURTHER EXAMINATION

13 BY MR. STEPTOE:

14 Q I believe Mr. Guild asked you about when you
15 heard back if an observation is valid or invalid, Mr.
16 Shevlin. Did you receive notice when an observation was
17 determined to be valid?

18 A No.

19 Q When did you receive notice of the disposition
20 of a BCAP observation by Engineering?

21 A Only if it was invalid.

22 MR. STEPTOE: I have no further questions.

FURTHER EXAMINATION

1
2 BY MR. GUILD:

3 Q And half of the reverification observations, by
4 your testimony, approximately, were determined invalid?

5 A That's a guess, but yes, somewhere in that neigh-
6 borhood, over a period of time.

7 Q Do you know which ones were determined invalid?

8 A No.

9 Q Is it reflected in the documents that you
10 produced today?

11 A It is reflected in the BCAP files.

12 Q But not the documents you produced today? Unless
13 there is a page 2 of 3 for the observation --

14 A That's exactly where it would be.

15 Q I only found one page 2 of 3.

16 A Yes. These were apparently recovered from the
17 system and copied with the other documents that were
18 assembled in my office such as this before Engineering even
19 got their hands on them, and that's why you don't have those
20 pages 2 and 3. But during subsequent processing, they would
21 have been added.

22 Q Why, then, was the one page 2 of 3 that was

1 included in the documents reflective of a determination
2 that the observation was valid?

3 A I have no idea.

4 Q That shouldn't have -- you shouldn't have gotten
5 that second page back if, as a matter of course, you never
6 received anything other than invalid determinations; correct?

7 A I normally wouldn't have gotten that, that's
8 true. You see, I don't know at what point this reproduction
9 was made.

10 Q The copies of the documents?

11 A Yes. It could have been anywhere. They could
12 have been done in the engineer's office just as he started
13 to work on them. I have no idea.

14 Q Or there could have been attached pages 2 and 3
15 that reflected a decision on validity that just didn't get
16 copied.

17 MR. STEPTOE: I will object.

18 BY MR. GUILD:

19 Q Do you know whether there were pages 2 and 3 that
20 were include that just simply were not copied?

21 A I really don't know.

22 MR. GUILD: All right. That's all I have.

1 MR. STEPTOE: I am prepared to continue if you
2 would like to continue, Mr. Guild.

3 MR. GUILD: I would, but I would like to continue
4 and pursue the line of questioning that you instructed the
5 witness not to respond to, among other things.

6 MR. STEPTOE: Well, if you would like to go into
7 the other things, Mr. Guild, I am here. We are ready to go
8 now.

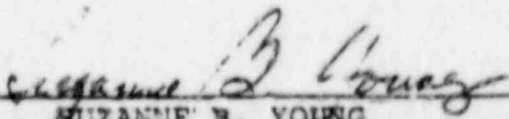
9 MR. GUILD: I would like to conduct the
10 deposition the way I would like to conduct the deposition,
11 Mr. Steptoe, and you have instructed the witness not to
12 answer the line of questioning, and I have reached the
13 determination to recess the deposition.

14 (Whereupon, at 12:40 p.m. the taking of the
15 deposition was concluded.)
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CERTIFICATE OF NOTARY PUBLIC

I, Suzanne B. Young, the officer before whom the foregoing deposition was taken, pages 1 through 74, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me and thereafter reduced to typewriting by me or under my direction; that said deposition is a true record of the testimony given by the witness; that I am neither counsel for, related to nor employed by any of the parties to the action in which this deposition was taken; and further, that I am not a relative or employee of any attorney or counsel employed by the parties hereto, nor financially or otherwise interested in the outcome of the action.


SUZANNE B. YOUNG

Notary Public in and for the
District of Columbia

My Commission expires: December 14, 1989

Bob

1/30/86

**DEPOSITION
EXHIBIT**

*Shavlin Dep.
Ex. No. 1*

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of:)	
COMMONWEALTH EDISON COMPANY)	Docket No. 50-456
(Braidwood Nuclear Power)	50-457
Station, Units 1 and 2))	

INTERVENORS ROREM, ET AL.
NOTICE OF DEPOSITIONS

Pursuant to 10 C.F.R. §2.740(a), Intervenors Rorem, et al. hereby give notice that they shall take the depositions of the following witnesses, who are employees of Commonwealth Edison Company or its contractors: James W. Geiseke; Kenneth T. Kostal; Edward M. Shevlin; George Orlov and Thomas E. Quaka. The depositions shall commence on Wednesday, February 12, 1986, at 10:00 A.M., and shall continue thereafter until completed, at the offices of Isham, Lincoln and Beale, Three First National Plaza, Chicago, Illinois; or at such time and place between February 12-14, 1986 as the parties may agree. The depositions shall be taken before a certified court reporter, and shall be on the subject of the witnesses' knowledge of the quality assurance deficiencies at the Braidwood nuclear power station alleged in Intervenors' Amended Quality Assurance Contention.

The deponents shall bring with them all documents in their possession, or subject to their control, which are the basis for the witnesses' affidavit in support of Applicant's December 20, 1985, Motion For Summary Disposition.

DATED: January 30, 1986

Submitted by,

A handwritten signature in cursive script that reads "Robert Guild". The signature is written in dark ink and is positioned above a horizontal line.

Robert Guild
One of the Attorneys for
Intervenors Rorem, et al.

Douglass W. Cassel
Robert Guild
Timothy W. Wright, III
109 North Dearborn
Suite 1300
Chicago, Illinois 60602
(312) 641-5570

1/30/86

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of:)
COMMONWEALTH EDISON COMPANY) Docket No. 50-456
(Braidwood Nuclear Power) 50-457
Station, Units 1 and 2))

CERTIFICATE OF SERVICE

I hereby certify that I have served copies of Intervenor's Rorem, et al. Notice of Depositions on each party listed on the attached Service List by having said copies placed in envelopes, properly addressed and postaged (first class) and deposited in the U.S. mail at 109 North Dearborn, Chicago, Illinois 60602, on this 30th day of January, 1986; except that NRC Staff Counsel Mr. Treby was served via Federal Express overnight delivery and Mr. Stahl, counsel for Edison, was served by messenger on Friday, January 31, 1986.

Robert E. Mulder

BRAIDWOOD SERVICE LIST

50-456/50-457 OL

Herbert Grossman
Chairman and Administrative Judge
Atomic Safety and Licensing Board
U.S. Nuclear Regulatory Commission
Washington D.C. 20555

Dr. A. Dixon Callihan
Administrative Judge
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Oak Ridge, TN 37830

Dr. Richard F. Cole
Administrative Judge
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Washington D.C. 20555

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Washington D.C. 20555

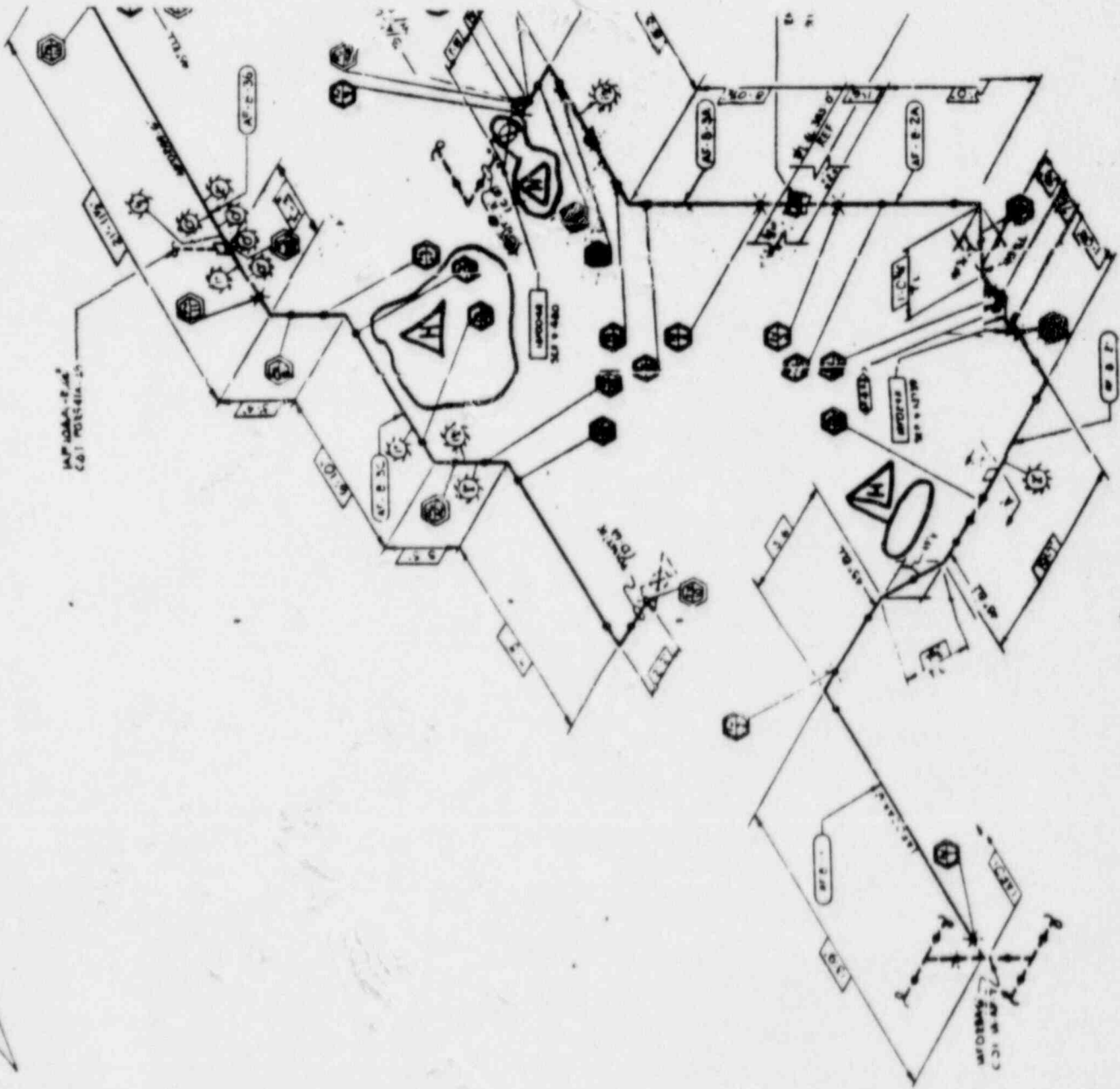
Joseph Gallo, Esq.
Isham, Lincoln & Beale
Suite 840
1120 Connecticut Avenue N.W.
Washington D.C. 20036

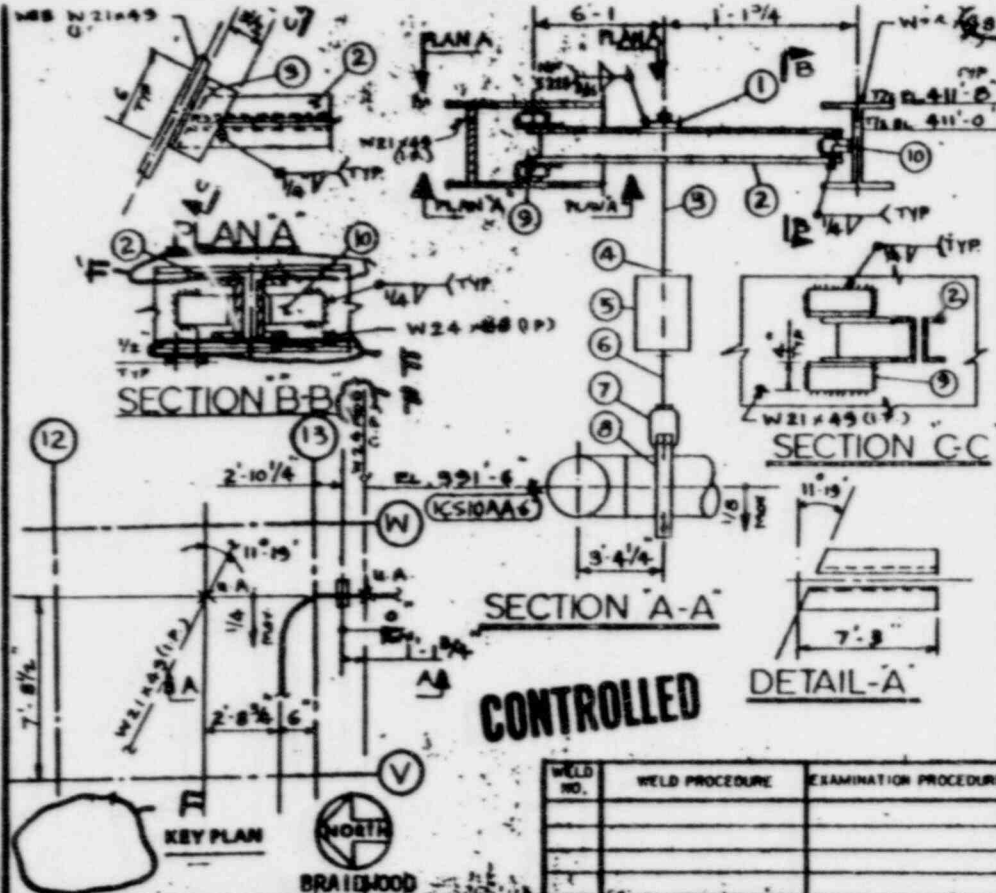
Docketing & Service Section
Office of the Secretary
U.S. Nuclear Regulatory
Commission
Washington D.C. 20555

Atomic Safety and Licensing
Board Panel
U.S. Nuclear Regulatory
Commission
Washington D.C. 20555

Atomic Safety and Licensing
Appeal Board Panel
U.S. Nuclear Regulatory
Commission
Washington D.C. 20555

Michael I. Miller, Esq.
Isham, Lincoln & Beale
Three First National Plaza
Chicago, IL 60602





ITEM	QTY	QTY	QTY	QTY	DESCRIPTION	WEIGHT (LBS)	STATUS
1	1	60			COMPONENT SUPPORT ASSEMBLY		
1	1	60			5/8" STEEL PLATE WASHER	0.62	X
2	2				C3x4x1x7/8 LONG CHANNEL	59.45	X PC
					1" B-B, SA-36 SEE DETAIL 'A'		
3	1				ROD ASSY. CONSISTING OF	18.15	X
	2	140N			5/8" ϕ x 6'-0" LONG ROD W/6" TBE		
	1	140N			5/8" ϕ x 5'-0" LONG ROD W/6" TBE		
	1	140N			5/8" ϕ x 1'-5" LONG ROD W/T.F.L.		
	2	135			5/8" ROD COUPLING		
	6				5/8" HEX NUT, SA 307 GR B		
4	5				5/8" HEX NUT, SA 307 GR B	0.33	X
5	1	B-268			#6 A. PRE-ENGINEERED HANGER, C.L. = 355"	3.00	X
6	1	140N			5/8" ϕ x 1'-6" LONG ROD W/T.F.L.	6.00	X
7	1	290			5/8" WELDLESS EYE NUT	0.35	X
8	1	212			6" MED PIPE CLAMP W/EXT. BOLT LENGTH & JAM NUTS	4.42	X
9	2				1/2" x 4" x 1/4" x 0'-6" LONG WELDED SEATED BEAM CONNECTION	12.8	X PC
10	2				1/8" x 3" x 3" x 0'-1 1/4" LONG SA-36	2.1	X
TOTAL WEIGHT LOADS (LBS.)						124.33	
DESIGN 384		OPERATING 367		HYDRO TEST		EMERGENCY 400	

**VOID
EVT**

**UNCONTROLLED
FOR INFORMATION ONLY**

DRN
MAY 16 1984
C.O. FLD. ENG.

WELD NO.	WELD PROCEDURE	EXAMINATION PROCEDURE

REV.	SPEC. NO.	DATE	DRAWN	CHECKED	ENG'R APPL	FILM	EMD REVIEW
F		4/21/84	John Flynn	A. Thiele	C. A. Lim		

REV.	SPEC. NO.	DATE	DRAWN	CHECKED	ENG'R APPL	FILM	EMD REVIEW

L2739 FOR RECORD ONLY PER PCA 1011 REDRAWN

DESIGN 384

P. B. SEAL

PROJECT NO. 4683-00

BRAIDWOOD STATION
UNIT-1
COMMONWEALTH EDISON COMPANY
CHICAGO, ILLINOIS

NUCLEAR SAFETY RELATED

DRN
A. Thiele
C. A. Lim
C. A. Lim

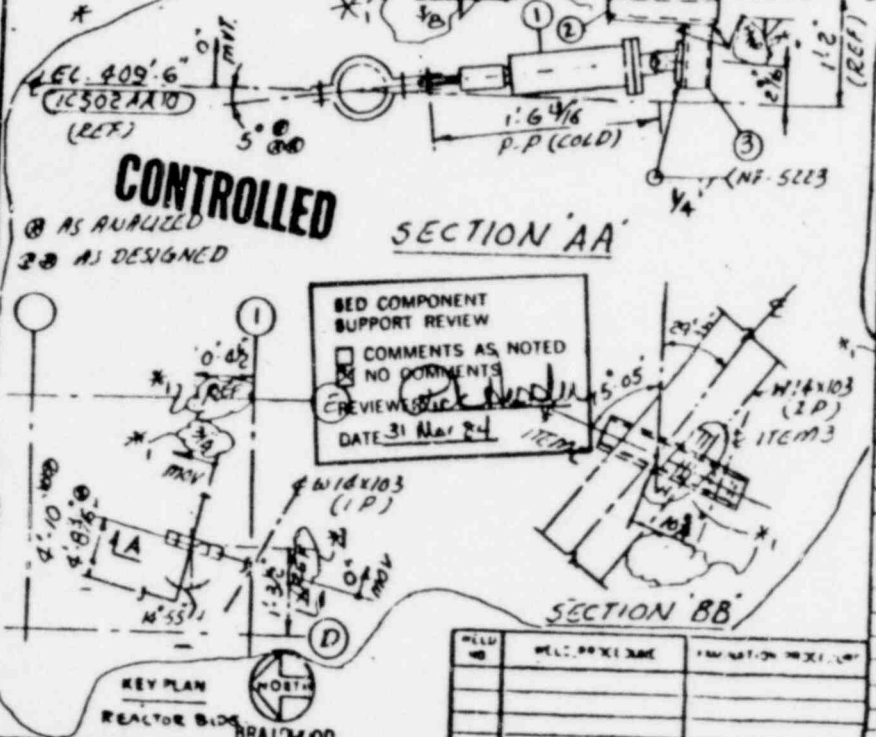
NO SCALE
DATE 09/04/84
DATE 4/21/84
DATE 4/21/84

SARGENT & LURDY

SUPPORT NO. M-1C505029V
REV. F

SHEET 1 OF 1

APPROVED
 NAME *[Signature]*
 DATE 9/27/84



CONTROLLED
 AS ANALYZED
 AS DESIGNED

BED COMPONENT
 SUPPORT REVIEW
 COMMENTS AS NOTED
 NO COMMENTS
 REVIEWED BY *[Signature]*
 DATE 31 MAR 84

ITEM	QTY	DIAM	SIG	OF PART NO	DESCRIPTION	UNIT	QTY	REMARKS
1	1	300			Mechanical SHOCK SUPPRESSOR NO. 3 5" STANG W/10TS O.D. C.S. PIPE CLAMP NIGEXTRA FULL LENGTH 6 TAMP NETS NUCLEAR CLASS C.S. 2 1/16" H.S. 12 1/2" DIA		84.7	(LAC) BR
2	1				15 EX 6 x 3/16 x 2-1/2 LG. FSD GX B		57.25	PC
3	1				15 EX 6 x 3/8 x 2-0 LG. FSD GX B		20.61	PC
4	1				12 EX 1/2 LG. W/TO BUTLOR 12 1/2 LG. TO		(50)	PC

Control # C 84132
 ENGINEERING CHANGE
 NOTICE NO. 152471
 BRAIDWOOD
 PROJECT No. 4483/4258/100
 Page 3 of 3

**UNCONTROLLED
 FOR INFORMATION ONLY**

APR - 6 1984
 17256

REV	NO	DATE	DESCRIPTION	ENGR	APPL	FILE
A	1	9976				
B	2	9-27-84	Final rev	RAG		
C	3	12-17-84	Final rev	W.C. Clark		
D	4	9-14-84	Final rev	Rec. B. M.	CS-AD-25	
X1	5	9-27-84	Final rev			



P.E. SEAL
 PROJECT NO. 4683-00

DESIGN	OPERATION	MAINTENANCE	EMERGENCY	SAFETY
2039				

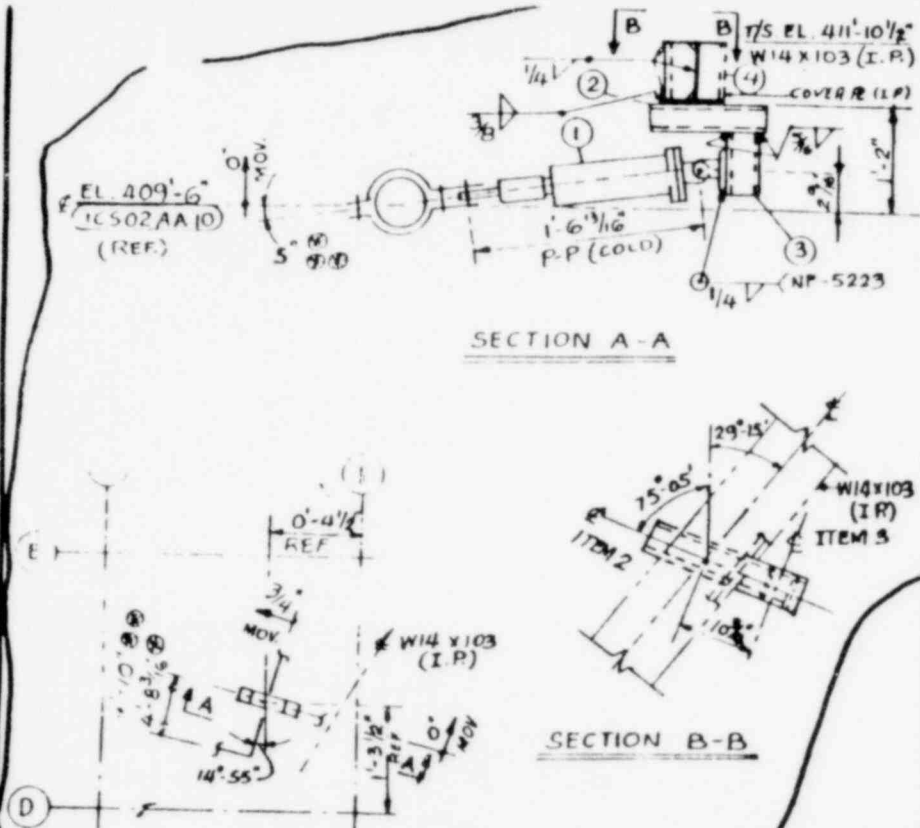
BRAIDWOOD STATION UNIT 1
 COMMONWEALTH EDISON COMPANY
 CHICAGO, ILLINOIS

NUCLEAR SAFETY RELATED

DESIGNER	DATE	WESTINGHOUSE NUCLEAR ENERGY SYSTEMS PGH. PA. U.S.A.
L. LEHNART	12/84	
N.A.		
M. HARRIS	11/81	
H. B. [unclear]	11/84	

SUPPORT NO. REV.
 N-1CS010025
 SHEET 1 OF 1

TICK 10-10-77



BILL OF MATERIAL		COMP.	
FIG NO OR PART NO	DESCRIPTION	WEIGHT (LBS)	
COMPONENT SUPPORT ASSY			
1	306N MECHANICAL SHOCK SUPPRESSOR NO. 3, 5" STROKE W/10.75" O.D. C.S. PIPE CLAMP W/ EXTRA BOLT LENGTH & JAM NUTS NUCLEAR CLASS 2 C.S. = 2 3/16", H.S. = 2 1/16"	84.7	
2	TS 6 X 6 X 3/8 X 2'-1" LG SA500 GR. B	57.25	PC
3	TS 6 X 6 X 3/8 X 0'-9" LG SA500 GR. B	20.61	PC
4	LG X 6 X 1/2 (FIELD CUT TO SUIT) SA-36 1'-0 3/8" LG	15.0	PC
1	BUNDLE & TAG PAINT W/ CARBOZINC II		
TOTAL WEIGHT		172.56	

UNCONTROLLED FOR INFORMATION ONLY

SEE ECN NO. D-05313
ELG 10-15-85

CONTROLLED

WELD NO	WELD PROCEDURE	EXAMINATION PROCEDURE

LOADS (LBS)	
DESIGN	OPERATING
HYDRO TEST	EMERGENCY
FAULTED	

NOV 19 1984
NO. 10 FIG

KEY PLAN REACTOR BLDG
 (NORTH) AS ANALYZED
 (AS DESIGNED)

REFERENCE DRAWINGS	DWG NO	REV	DWG NO	REV	DWG NO	REV	DWG NO	REV
	M-164	C	S-915	H	208-1-3224	2	M-535-3	C
	M-168-1	C	6E-1-3224	2	M-1271	2		

DRAWING RELEASE RECORD				
REV	DATE RECD	PREPARED	REVIEWED	APPROVED
D	10/27/84	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

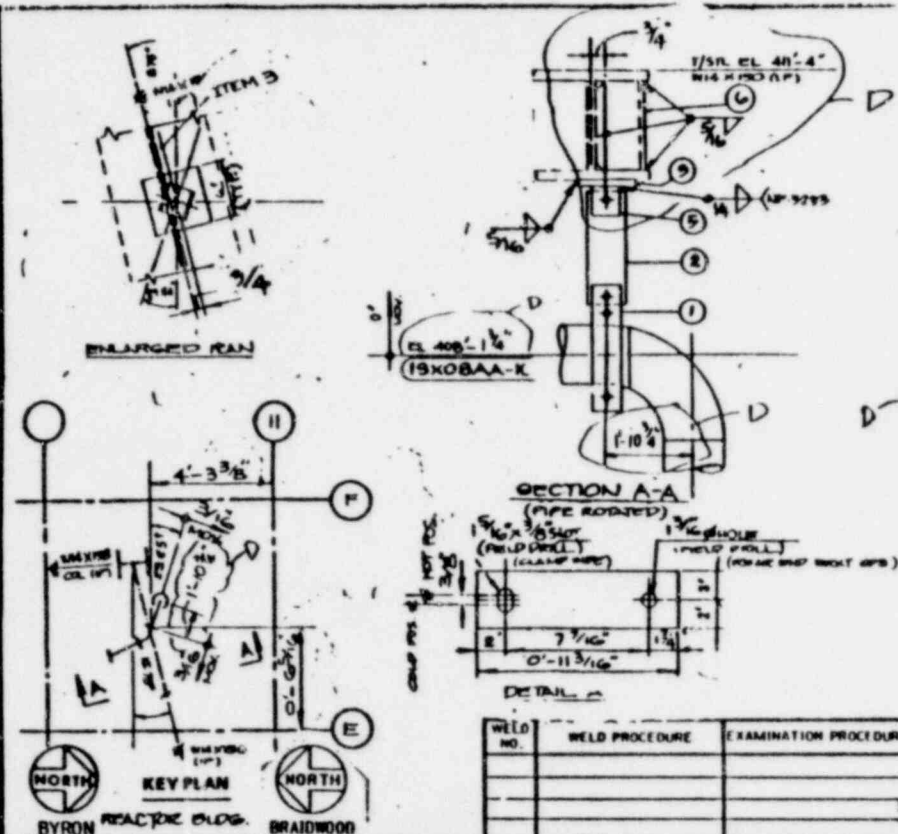
DESIGN 10239
 TMO REVIEW
 SUPPORT CLASS B



BRAIDWOOD UNIT - 1
 COMMONWEALTH EDISON CO.
 CHICAGO, ILLINOIS
 NUCLEAR SAFETY RELATED

NO SCALE	SUPPORT NO.	REV
PROJECT NO. KGB-00	M 10504002S	D
SARGENT & LUDY	SHEET 1 OF 1	

L 2739 FOR RECORD ONLY PER ECN # 16959 (REDRAWN)



BILL OF MATERIAL				BY OTHERS				
ITEM	FIG NO OR PART NO	DESCRIPTION	COMPONENT WEIGHT LBS	P. 3	C. 3	S. 3	BY OTHERS	
							BY	BR
1		COMPONENT SUPPORT ASSEMBLY						
1	814N	10 75" PIPE CLAMP	33.7		X			
2		1" X 4" X 11 3/16" CS. PL. (SA 96 OR SA 515 OR 516) SEE DETAIL A	12.7		X	X		
3		3/4" X 6" X 6" CS. PL. (SA 96 OR SA 515 OR 516) SEE ENLARGED PLAN	7.69				X	PC PC
5	111 N	1" WELDED BEAM ATTACHMENT W/ PIN & COTTER	3.5		X			IT
6		L 6 X 6 X 1/2" X 1' 0 5/8" L.S. (SA 36) FLD. CUT TO SUIT	20.67				X	PC PC
1 PICKING & MARKING M-P-3-1-B								
TOTAL WEIGHT LOADS (LBS.)			80.17					

SARGENT & Lundy
UNCONTROLLED
FOR INFORMATION ONLY

RECEIVED
11-17-82

WELD NO.	WELD PROCEDURE	EXAMINATION PROCEDURE

REFERENCE DRAWINGS	DWG. NO.	REV.	DWG. NO.	REV.	DWG. NO.	REV.	DWG. NO.	REV.	W. PIPE SUPPORT DESIGN SPEC 95511, REV. 8 ASME III 1/2 CLASS 1, 2, 3
	M-161	F	M-169	F	M-199-7	A	B-915	M	
	M-162	F	M-199-1	F	M-157-1	F	6E-1-4281	G	

DRAWING RELEASE RECORD							SUPPORT CLASS
REV.	SPEC. NO.	DATE	DRAWN	CHECKED	ENGR. APPL.	FILE	EMD REVIEW
A		6-29-79	<i>J. Sandrovich</i>	<i>W. Lundy</i>	<i>W. Lundy</i>	X	
B		12-17-79	<i>J. Sandrovich</i>	<i>W. Lundy</i>	<i>W. Lundy</i>	X	
C		7-25-80	REVISED & REDRAWN FROM EMBL				
D	26902	6/7/82	B. PINEDA	E. WILSON	M-15X06028R		

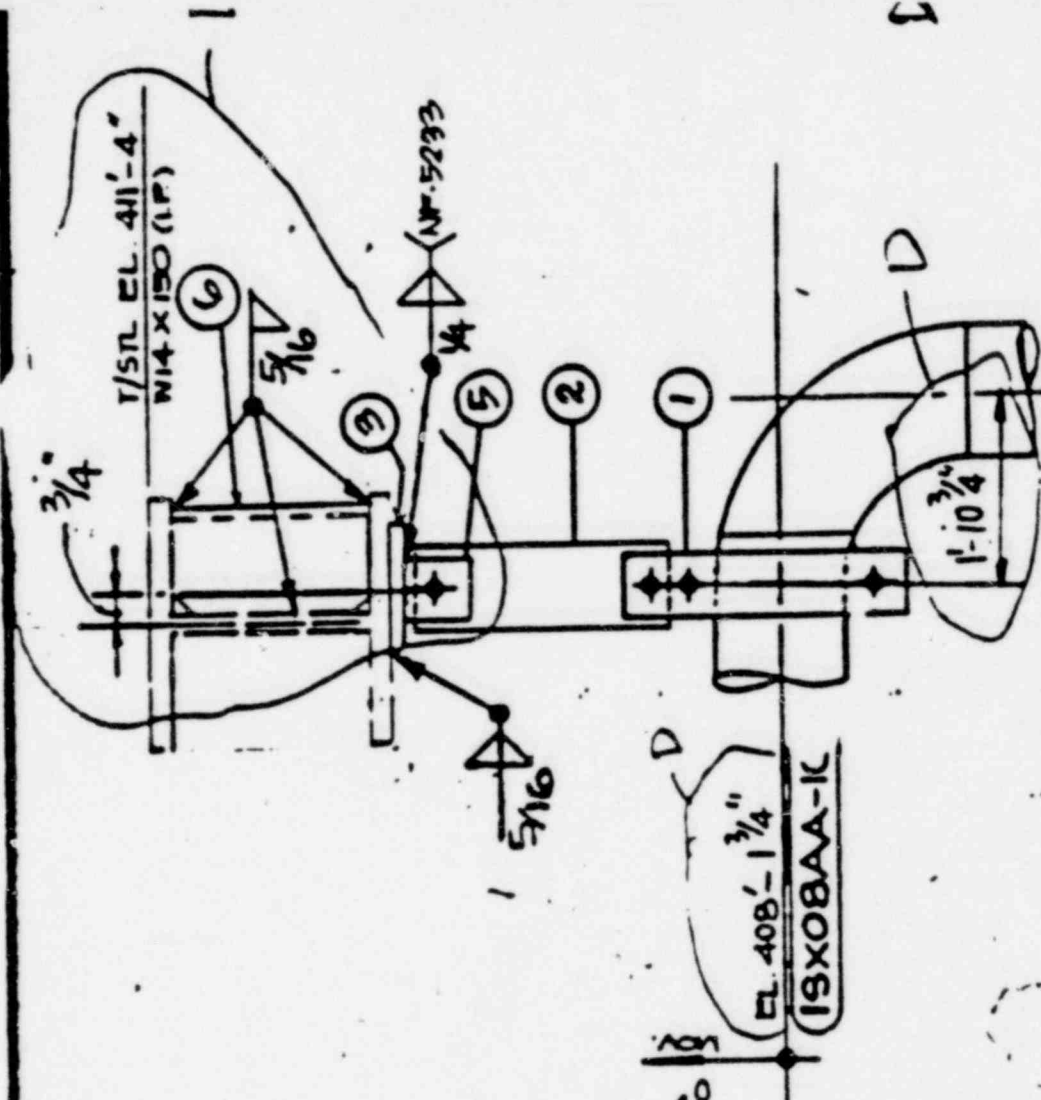
REVISION DESCRIPTION	
REVISED DUE TO ECN # 26902 & FCR # F-13270. P/L HSS-1	
SUPPLY UNAFFECTED FIL 2739 ISSUED FOR RECORD	

DESIGN	OPERATING	HYDRO TEST	EMERGENCY	FAULTED
+4390	+3750			+4460

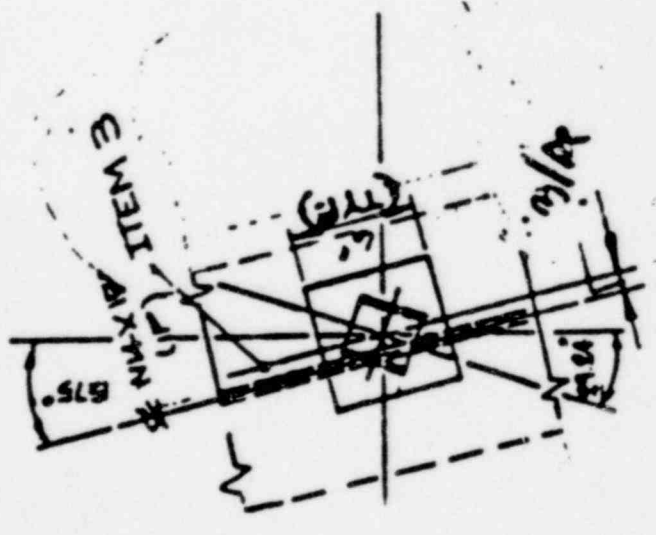
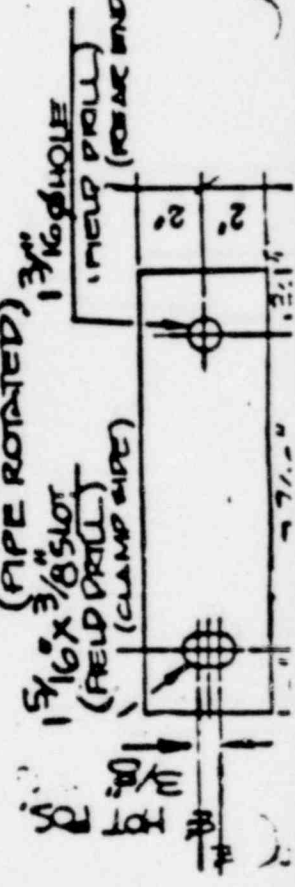
BYRON/BRAIDWOOD STATION UNIT 1
COMMONWEALTH EDISON COMPANY
CHICAGO, ILLINOIS

NUCLEAR SAFETY RELATED

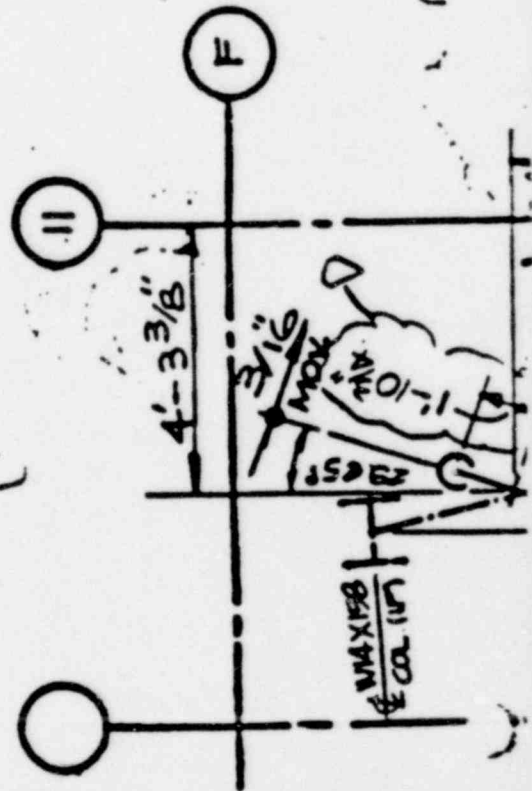
	WESTINGHOUSE NUCLEAR ENERGY SYSTEMS PGH. PA., U.S.A.
DESIGNED BY J. SANDROVICH CHIEF ENGINEER N.A. DESIGNED BY E.D.L.C. APPROVED BY [Signature] DATE 3-11-81	SUPPORT NO. M-15X06028R REV. D
PROJECT NO. 4683-00 REVISED 4391-00	SHEET 1 OF 1



SECTION A-A



ENLARGED RAN



SUMMARY

On January 18, 1985 CSR Mechanical/Welding inspection activities were suspended in the piping support populations predicated upon NRC CAT concerns. Actions taken and results achieved are as follows:

1. A Reverification Plan was developed by the BCAP Level III Mechanical Inspector and approved by the BCAP CSR Inspection Supervisor on January 19, 1985. The plan contains definitive actions to be executed and special checklists to document the reverification results. These checklists included a special instruction for reverification of each of the four (4) areas of interest. A separate checklist was prepared for each of the three affected support populations to provide appropriate references to the applicable approved BCAP checklist instruction in all cases. The Reverification Plan, including checklists, are enclosed as Exhibit "C."
2. Prior to performing the reverification, each inspector was instructed in the objectives and methods outlined in the plan, the attributes to be reverified, and the specific instructions applicable to each attribute. Attendance rosters are enclosed as Exhibit "D."
3. Control measures were established to assure that no inspector was tasked to reverify his own previously performed inspection. A log which lists each CSR Package number, the name of the original inspector and the name of the reverification inspector is enclosed as Exhibit "E."
4. The inspectors who performed the reverification were provided only with the applicable drawings, instructions and special checklists. They were thus aware of neither the results of the original inspections or the identities of the original inspectors.

NOTE: Prior to implementing this plan, two CAT findings were reverified by the original inspectors. The inspectors concurred with the CAT findings, and issued Observation Records I-M-02-054-3 and I-M-03-008-4. These observations were treated under this plan as new observations, and are included in all resultant statistics. The two supports were also independently reverified as described in paragraph 3 and 4 above.

5. Findings made by the reverification inspectors were entered on the special checklists. A specially designated team of Certified (Lead) Quality Inspectors were tasked to determine the validity of each finding. This was done by reexamination of the hardware items and/or comparison with the approved BCAP accept/reject criteria outlined in the applicable instructions in Exhibit "H" and were processed as follows:

E0000453

- a. Where the finding was determined to be valid, an Observation Record was initiated in accordance with Procedure BCAP-06.
 - b. Where the finding was determined to be invalid, the reverification inspector was shown, to his/her satisfaction, the reason for the determination. The justification for a determination of invalidity was entered on the special checklist and signed by the Certified Lead Inspector. As evidence of concurrence, the reverification inspector initialed the entry.
 - c. The plan provided for processing of contested new observations. No invalidation of findings were contested.
 - d. One Observation Record was initiated, and later closed by the Level III Mechanical Inspector as not suitable for further processing, with the concurrence of the reverification inspector.
 - e. Observation Records initiated as a result of this plan are being processed in accordance with BCAP-06. Copies are enclosed as Exhibit "P."
6. Copies of the checklists used to implement this plan are enclosed under separate cover as Exhibit "G."
 7. BCAP CSR reinspection package documents affected were corrected to incorporate the new observations initiated as a results of this plan.
 8. Analysis of the results of implementing this plan are enclosed as follows.

Program analysis by group	Exhibit H
Evaluation of new observations	Exhibit I

Conclusion:

Based upon the number of new observations (20) versus the total attributes reverified (640) the results indicate a 96.8% inspection accuracy rate. In addition no significant deficiencies were identified during the reverification plan which had not been previously identified.

All questionable areas of concern were thoroughly addressed through implementation of this plan.

Predicated on the results of the assessment/reverification plan, we consider the MRC CAT Team concerns to be effectively resolved.

TO: R. L. Byers

FROM: M. A. Clinton

SUBJECT: CAT Concerns with BCAP Reinspections of Piping Supports

As discussed on 1/18/85, we have initiated an internal reverification program to address the CAT concerns and questions related to the Task Force reinspections in the piping support area. The reverification program is focused on four areas of concern which are summarized in Attachment 1.

Evaluation of each of these four areas of concern and the fact that they were revealed in a relatively small number of reinspection packages (5) led to a conclusion to reverify the affected attribute areas for the 160 piping support packages completed through 1/18/85. The 160 completed packages are distributed in the random sample portion of three populations in the following proportions:

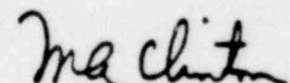
- M-002 Large Bore Pipe Supports (Rigid) - 50 completed.
- M-003 Large Bore Pipe Supports (Non-Rigid) - 51 completed.
- M-006 Small Bore Pipe Supports - 59 completed

The Mechanical/Welding Level III Inspector was assigned to develop a Reverification Plan to cover the areas of CAT concern and to obtain my concurrence prior to beginning any inspector reverification activity. The draft plan was reviewed on 1/19/85 and approval to begin implementation was also given on 1/19/85. The resultant Reverification Plan and implementing checklists and forms for recording reinspection results are presented in Attachment 2.

We are performing the reverification program on a priority basis and expect to have a majority of the reverification activities completed by 1/25/85.

There will be a small number of piping supports in restricted access areas and these may not be completed by 1/25/85; however, these should not materially affect the results to be available by 1/25/85.

I will keep you informed of the progress of this program on a regular basis.


M. A. Clinton

Areas of Question or Concern

1. Cat Inspector identified that a 6" angle iron stiffener specified on the drawing and the Bill of Material was not installed. BCAP Inspector had reported this piece inaccessible for verification in the checklist Remarks column, due to its parent in place beam being boxed in. (M-003-032)
2. CAT Inspector identified that the shelf bracket angle irons for the supplementary steel on one support were not the specified size or weight. BCAP Inspector failed to transcribe this observation from his notes to the reinspection documentation. (M-003-008)
3. CAT Inspector identified that a welded attachment to in-place steel on one support was incorrectly located. -BCAP Inspector failed to identify this discrepancy. (M-002-054)
4. CAT Inspector was concerned that instructions did not provide for verifying specified location of support attachments to supplementary steel (Generic)

Reverification Plan

1. Checklists to provide for reverification of the characteristics identical to or similar to the areas of concern are to be developed by the BCAP Mechanical Level III Inspector, and approved by the Inspection Supervisor.
2. Inspectors involved in the reverification are to be provided with instructions to assure a complete and uniform understanding of the attribute areas to be reverified. Specific training on the use of the reverification checklist and applicable CSR instructions will be provided.
3. Control measures are to be established to assure that no inspector will be tasked to reverify his/her own work.
4. The inspector performing a reverification is not to be provided with the results of the original inspection. He/she will be furnished with the applicable drawings, instructions and the reverification checklist. The reverification inspector will not be made aware of the identity of the original BCAP inspector.
5. Observations made by the reverification inspectors will be compared with the results of the original inspections by a team of specially designated inspectors. Where an observation is made during reverification which was not made during the original inspection, a Certified Lead Quality Inspector (Mechanical) will reexamine the subject characteristic to determine the validity of the new observation. If valid, the new observation will be processed in accordance with current BCAP procedures. If the new observation is determined by the Certified Lead Quality Inspector to be invalid, the reverification inspector will be shown, to his satisfaction, the reason for the determination of invalidity. The reverification inspector's acknowledgment of invalidity will be documented on the reverification checklist. Contested new observations will be processed in accordance with current BCAP procedures.

6. Results of the reverification will be analyzed to determine individual inspector or group deficiencies. In the event that such deficiencies become apparent, appropriate instruction or training will be developed, submitted to BCAP Management for approval, and presented to the inspectors. At the time of decision that additional training is indicated, further support inspections by individuals or by group will be discontinued until such training has been completed.
7. Support inspection attributes outside the scope of the NRC CAT questions and concerns are not addressed by this plan.
8. Documents controlled by BCAP procedures initiated or corrected as a result of this plan will be processed and retained in accordance with the applicable procedures.
9. Checklists, notes or other documents initiated as a result of this plan but not controlled by BCAP procedures will be processed and retained as directed by BCAP Management.

Forms to implement this Plan are attached.

POPULATION		SMALL BORE PIPE SUPPORTS	1	6	PORT NO.	REJECT	OBSERVATION DESCRIPTION & REPORT NO.	CSR FIG. NO.
ATTRIBUTE	SPECIAL INSTRUCTIONS	ACCEPT	REJECT	DATE	INSPECTOR	DATE	LEAD INSPECTOR	DATE
CONFIGURATION	VERIFY THAT ALL ITEMS OF THE INSTALLED SUPPORT COMPLY WITH THE BILL OF MATERIALS. VERIFY IN ACCORDANCE WITH INSTRUCTION 3.1, CSR-I-M-6, REV. 1.							
COMPONENT DIMENSIONS	VERIFY THE COMPONENT DIMENSIONS TO THE BILL OF MATERIALS AND THE SUPPORT SKETCH. VERIFY IN ACCORDANCE WITH INSTRUCTION 4.1, CSR-I-M-6, REV. 1.						E0000462	
COMPONENT DIMENSIONS	VERIFY THAT INSTALLATION TOLERANCES FOR COMPONENTS COMPLY WITH INSTRUCTION 4.2, CSR-I-M-6, REV. 1.							
LOCATION OF ATTACHMENT TO SUPPLEMENTARY STEEL.	WHERE THE SUPPORT ATTACHES TO SUPPLEMENTARY STEEL, VERIFY THAT THE LOCATION OF THE ATTACHMENT TO THE SUPPLEMENTARY STEEL DOES NOT DEVIATE FROM THAT SPECIFIED ON THE SUPPORT DRAWING. ALLOWABLE TOLERANCES ARE SHOWN ON CSR-I-M-6, ATTACHMENT 1, PAGE 4A; FIG. 2, AND PAGE 9, PARA. 13.							
REQUISIT PREPARED	DATE	CHECKLIST APPROVED	DATE	INSPECTOR	DATE	LEAD INSPECTOR	DATE	
E. L. ...	1-24-68	M. A. ...	1/19/68					

POPULATION		DATE BORE RIGID PIPE SUPPORTS	IN (1)	PORT NO.	CSR PKG. NO.
ATTRIBUTE	SPECIAL INSTRUCTIONS	REJECT	ACCEPT	OBSERVATION DESCRIPTION & PORT NO.	
CONFIGURATION	VERIFY THAT ALL ITEMS OF THE INSTALLED SUPPORT COMPLY WITH THE BILL OF MATERIALS. VERIFY IN ACCORDANCE WITH INSTRUCTION 2.1, CSR-I-M-2, REV. 1.				30000463
COMPONENT DIMENSIONS	VERIFY THE COMPONENT DIMENSIONS TO THE BILL OF MATERIALS AND THE SUPPORT SKETCH. VERIFY IN ACCORDANCE WITH INSTRUCTION 3.1, CSR-I-M-2, REV. 1.				
COMPONENT DIMENSIONS	VERIFY THAT INSTALLATION TOLERANCES FOR COMPONENTS COMPLY WITH INSTRUCTION 3.2, CSR-I-M-2, REV. 1.				
LOCATION OF ATTACHMENT TO SUPPLEMENTARY STEEL	WHERE THE SUPPORT ATTACHES TO SUPPLEMENTARY STEEL, VERIFY THAT THE LOCATION OF THE ATTACHMENT TO THE SUPPLEMENTARY STEEL DOES NOT DEVIATE FROM THAT SPECIFIED ON THE SUPPORT DRAWING. ALLOWABLE TOLERANCES ARE SHOWN ON INSTRUCTION CSR-I-M-2, ATTACHMENT 1, PAGE 4A, PARA. 2, AND PAGE 9, PARA. 13.				
CHECKLIST PREPARED	DATE	CHECKLIST APPROVED	DATE	INSPECTOR	DATE
Belcher	1-18-85	MaChester	1-18-85		

POPULATION	'ARCE BORE NON RIGID PIPE SUPPORTS	M-03	REPORT NO.	CSR REG. NO.	OBSERVATION DESCRIPTION & REPORT NO.
ATTRIBUTE	SPECIAL INSTRUCTIONS		ACCEPT	REJECT	
CONFIGURATION	VERIFY THAT ALL ITEMS OF THE INSTALLED SUPPORT ARE THE SAME AS THOSE INDICATED ON THE BILL OF MATERIALS. VERIFY IN ACCORDANCE WITH INSTRUCTION 3.1, CSR-I-M-3, REV. 1.				E10000464
COMPONENT DIMENSIONS	VERIFY THE COMPONENT DIMENSIONS TO THE BILL OF MATERIALS AND THE SUPPORT SEZN. VERIFY IN ACCORDANCE WITH INSTRUCTION 4.1, CSR-I-M-3, REV. 1.				
COMPONENT DIMENSIONS	VERIFY THAT INSTALLATION TOLERANCES FOR COMPONENTS COMPLY WITH INSTRUCTION 4.2, CSR-I-M-3, REV. 1.				
LOCATION OF ATTACHMENT TO SUPPLEMENTARY STEEL	WHERE THE SUPPORT ATTACHES TO SUPPLEMENTARY STEEL VERIFY THAT THE LOCATION OF THE ATTACHMENT TO THE SUPPLEMENTARY STEEL DOES NOT DEVIATE FROM THAT SPECIFIED ON THE SUPPORT DRAWING. ALLOWABLE TOLERANCES ARE SHOWN ON INSTRUCTION CSR-I-M-3, ATTACHMENT 1, PAGE 4A, PARA. 2, AND PAGE 9, PARA. 13.				

CHECKLIST PREPARED	DATE	CHECKLIST APPROVED	INSPECTOR	DATE	LEAD INSPECTOR	DATE
E. H. ...	1-18-85	ma ch...		1/18/85		

PIPING SUPPORT REVERIFICATION PLAN

E0000466

ANALYSIS OF NEW OBSERVATIONS BY ATTRIBUTE VERSUS POPULATION

POPULATION	ATTRIBUTE	CONFIGURATION	COMPONENT DIMENSIONS (B.O.M.)	COMPONENT DIMENSIONS (INSTALLATION)	LOCATION OF ATTACHMENT TO SUPP. STEEL	TOTAL
M-2	6	0	0	0	0	6
M-3	6	2	1	2	2	11
M-6	1	0	2	0	0	3
TOTAL	13	2	3	2	2	20

REVERIFICATION ATTRIBUTES	FRIBU-FABLE TO INSPECTOR TECHNIQUE	ATTRIBU-FABLE TO FRIDRS OMER THAN INSPECTOR TECHNIQUE
ATTRIBUTE # 1 (CONFIGURATION)	5	7
ATTRIBUTE # 2 (COMPONENT DIMENSIONS VERIFIED TO SUPPORT DRAWINGS AND BILL OF MATERIAL)	2	0
ATTRIBUTE # 3 (COMPONENT DIMENSIONS VERIFIED TO INSTALLATION TOLLRANCES)	1	3
ATTRIBUTE # 4 (LOCATION OF ANCH-PINETS TO SUPPLEMENTARY STEEL)	0	2
TOTALS	8	12

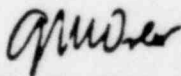
111111

C. F. - 1121 - 2
ATTN: - 2

January 31, 1985
BCAP Memo #593

TO: R. L. Byers
FROM: G. M. Orlov
SUBJECT: Observations resulting from Pipe Support Verification Plan

The additional observations generated as a result of the BCAP Pipe Support Reverification Plan have been reviewed. It is apparent from this review that the BCAP inspections should, for future inspections, continue to verify dimensions of vendor supplied "catalog" items that constitute hanger assemblies in the manner in which these verifications were performed during the "Reverification" activities. This action will provide assurance that pipe support components are installed in accordance with the specified design and will address questions identified by the CAT.


G. M. Orlov
BCAP Assistant Director

GMO/jan
cc: N. Kaushal
M. Clinton
BCAP File QG 69.60.3

E3000468

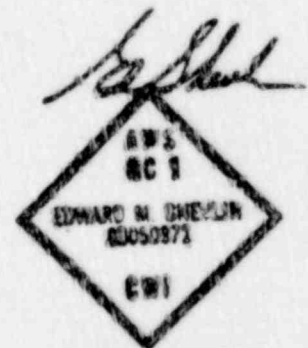
Date: 1-31-85

TO: MENDO CLINTON

FROM: Ed Shevlin

SUBJECT: CSR-I-M-2, CSR-I-M-3, CSR-I-M-6 CHECKLIST INSTRUCTIONS.

1. ON 1-30-85, INDIVIDUAL INSTRUCTION TO EACH INSPECTOR WAS GIVEN RELATIVE TO HANGER DISCREPANCIES FOUND DURING THE REVERIFICATION: WHERE I RECOMMENDED TO YOU THAT A FINDING WAS ATTRIBUTABLE TO INSPECTOR TECHNIQUE, THAT FINDING WAS DISCUSSED IN DETAIL WITH THE RESPONSIBLE INDIVIDUAL. EACH INVOLVED INSPECTOR UNDERSTANDS THE NATURE AND DETAILS OF THE DISCREPANCY, AND THE TECHNIQUE TO BE EMPLOYED TO PREVENT RECURRENCE.
2. ON 1-31-85, A GROUP SESSION WAS PRESENTED BY MYSELF TO PROVIDE FEEDBACK ON THE RESULTS OF THE REVERIFICATION. THE SPECIFIC LETTER AND INTENT OF THE CHECKLIST INSTRUCTIONS WERE DISCUSSED IN DETAIL. TWO CSR ENGINEERS WERE IN ATTENDANCE. ALL QUESTIONS RAISED WERE ANSWERED TO MY SATISFACTION AND THAT OF THE INSPECTORS.
3. I AM CONFIDENT THAT A CLEAR AND UNIFORM UNDERSTANDING OF THE REQUIREMENTS FOR PIPE SUPPORT INSPECTIONS EXISTS, AND THAT WE CAN PROCEED WITH THE INSPECTION OF THE REMAINDER OF THESE POPULATIONS WITHOUT ANTICIPATION OF PROBLEMS.
4. COPIES OF THE GROUP SESSION ATTENDANCE ROSTERS ARE ATTACHED.



E0000469

ATTENDANCE ROSTER TRAINING SESSION

Subject: CSR-3-M-2 CSR-3-M-6 CSR-3-M-3 Date: 1-31-85

CHECKLIST INSTRUCTIONS

Duration: 2.0

PRINT FULL NAME	BADGE NO.	DEPT.	SIGNATURE
1. Bill Josey	243-62-8661	BCAP	<i>Bill Josey</i>
2. Tom Young	515-56 8865	BCAP	<i>Tom Young</i>
3. Ed Salka			<i>Ed Salka</i>
4. Phil S Jones	523-80-5059	BCAP	<i>Phil S Jones</i>
5. Jim Gilman	004-42-5840	BCAP	<i>Jim Gilman</i>
6. JSL McGraw	247-58-2208	BCAP	<i>JSL McGraw</i>
7. HOWARD M. SIGREST	287269158	BCAP	<i>Howard M Sigrest</i>
8. BILL EAMES	005-46-5164	BCAP	<i>Bill Eames</i>
9. DAVID R WALKER	250-04-9375	BCAP	<i>David R Walker</i>
10. GLENN McCOWAN	089-32-1314	BCAP	<i>Glenn McCowan</i>
11. John A. Alberghini	007381463	BCAP	<i>John A Alberghini</i>
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			

E9000470

Instructor's *1.1.1*

ATTENDANCE ROSTER TRAINING SESSION

Subject: CSR-I-M-2 CSR-I-M-3 CSR-I-M-6

Date: 1-31-85

CHECKLIST INSTRUCTIONS

Duration: 2.0

PRINT FULL NAME	BADGE NO.	DEPT.	SIGNATURE
1. PAMELA J THOMPSON	572-74-838	BCAP	<i>Pamela J Thompson</i>
2. F. STARR	383-56-3594	BCAP	<i>F Starr</i>
3. S L MCGRAW	247-58-2208	BCAP	<i>S L McGraw</i>
4. HAROLD N. SIGREST	587269058	BCAP	<i>Harold Sigrest</i>
5. BILL EAMES	005-46-5164	BCAP	<i>Bill Eames</i>
6. DAVID R WALKER	250-04-9375	BCAP	<i>David R Walker</i>
7. GLENN McCONAGHY	054-52-1314	BCAP	<i>Glenn McConghy</i>
8. <i>Jim Coleman</i>	004-42-5840	BCAP	<i>James Coleman</i>
9. ANDERS Y NG	130-56-4813	BCAP	<i>Anders Y Ng</i>
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____
13. _____	_____	_____	_____
14. _____	_____	_____	_____
15. _____	_____	_____	_____
16. _____	_____	_____	_____
17. _____	_____	_____	_____
18. _____	_____	_____	_____
19. _____	_____	_____	_____
20. _____	_____	_____	_____

E3000471

Remarks: SEE ATTACHED MEMO

Instructor's Name: *Ed Hunt*

ATTENDANCE ROSTER TRAINING SESSION

Subject: REVERIFICATION OF CSR SUPPORT
REINSPECTION

Date: 1-19-85

Duration: 0.5

PRINT FULL NAME	BADGE NO.	DEPT.	SIGNATURE
L. D. Brown	499-68-3225	BCAP	<i>L. D. Brown</i>
TOM YOUNG	515-56-8865	BCAP	<i>Tom Young</i>
Bob Aho	470-68-9342	BCAP	<i>Robert Aho</i>
Mutton	492-62-757	BCAP	<i>Mutton</i>
TERRY L CHANEY	561-82-1428	BCAP	<i>Terry L. Chaney</i>
Pat S Jones	523-80-5059	BCAP	<i>Pat S Jones</i>
SL MCGRAW	247-58-2208	ROAD	<i>SL McGraw</i>
Bill Eames	005-46-5169	BCAP	<i>Bill Eames</i>
DAVID R. WALKER	250-04-8375	BCAP	<i>David R. Walker</i>
HORACE W. NORRIS	247-44-7404	BCAP	<i>Horace W. Norris</i>
Harold N. SIGREST	587269058	BCAP	<i>Harold N. Sigrest</i>
MARK J. MAJOR	103-46-6277	BCAP	<i>Mark J. Major</i>
F. STON	387-56-3599	BCAP	<i>F. Ston</i>

E0000472

Remarks: _____

Instructor's Name: *Ed Shurt*

REVERIFICATION OF CSR SUPPORT REINSPECTION

POPULATION LARGE BORE RIGID PIPE SUPPORTS

SUPPORT NO.	CSR PKG. NO.	INSPECTED BY	REVERIFIED BY	ADDITIONAL OBSERVATION DESCRIPTION & REPORT NO.
1CC04030 R/L	CSR-I-M-2-001	FIS	TRY	NONE
1AF06032 R/D	CSR-I-M-2-002	HWN	GJS	NONE
1CC10009 R/L	CSR-I-M-2-003	TRY	PSJ	NONE
2AF01006 R/L	CSR-I-M-2-006	HMS	FIS	NONE
1CV07039X R/L	CSR-I-M-2-001	FIS	TRY	NONE
1CC13056 R/B	CSR-I-M-2-008	HWN	GJS	NONE
1AB10022 R/K	CSR-I-M-2-004	FIS	PSJ	NONE
2SX10002X R/L	CSR-I-M-2-010	FIS	TRY	NONE
2AF01030X R/L	CSR-I-M-2-012	GJS	FIS	NONE
1AB11041 R/L	CSR-I-M-2-013	GJS	PSJ	NONE
1CV33007 R/D	CSR-I-M-2-015	PJT	GJS	NONE
1CS01047R R/K	CSR-I-M-2-016	HWN	PSJ	NONE
2AF10015 R/B	CSR-I-M-2-019	PSJ	FIS	ROD AND ROD COUPLING DIMENSIONS/CSR-I-M-2-019-2
1CV580296 R/D	CSR-I-M-2-020	DRW	TRY	NONE
1SX33009X R/L	CSR-I-M-2-022	DRW	PSJ	NONE
2AF04058X R/L	CSR-I-M-2-023	PSJ	TRY	NONE
1CC03105X R/K	CSR-I-M-2-018	GJS	PSJ	NONE
2FPI1008 R/E	CSR-I-M-2-025	GJS	FIS	NONE
1SI23011 R/D	CSR-I-M-2-026	PSJ	GJS	NONE
1FW07013X R/L	CSR-I-M-2-027	FIS	PJT	NONE
1FP20017 R/D	CSR-I-M-2-028	FIS	TRY	NONE
1CV58020 R/B	CSR-I-M-2-029	GJS	PSJ	NONE
1RH05008X R/D	CSR-I-M-2-030	TRY	GJS	NONE

E0000475

REVERIFICATION OF CSR SUPPORT REINSPECTION

POPULATION LARGE BORE RIGID PIPE SUPPORTS

SUPPORT NO.	CSR PKG. NO.	INSPECTED BY	REVERIFIED BY	ADDITIONAL OBSERVATION DESCRIPTION & REPORT NO.
IFP13013 R/C	CSR-I-M-2-031	GJS	FIS	ROD COUPLING DIMENSIONS/CSR-I-M-2-031-2
2FP03029 R/W	CSR-I-M-2-032	GJS	TRY	NONE
1RH05012X R/W	CSR-I-M-2-030	PJT	GJS	NONE
1SX15008 R/W	CSR-I-M-2-035	PJT	PSJ	NONE
IFP32024X R/W	CSR-I-M-2-036	GJS	FIS	NONE
1SX36056X R/C	CSR-I-M-2-037	PSJ	TRY	NONE
1CS06016X R/E	CSR-I-M-2-038	GJS	PSJ	NONE
1SX15089X R/W	CSR-I-M-2-039	FIS	GJS	NONE
ICC15027 R/C	CSR-I-M-2-040	GJS	FIS	NONE
1SI07007X R/W	CSR-I-M-2-041	GJS	PJT	NONE
1SX20001 R/E	CSR-I-M-2-042	GJS	TRY	NONE
1SI07011 R/W	CSR-I-M-2-043	HMS	GJS	NONE
IFP19042X R/C	CSR-I-M-2-044	HWU	PSJ	NONE
IFP01026X R/A	CSR-I-M-2-045	FIS	GJS	NONE
IFP41004 R/W	CSR-I-M-2-046	GJS	FIS	NONE
IFW18017 R/C	CSR-I-M-2-047	GJS	PJT	INCORRECT CLAMP INSTALLED/CSR-I-M-2-047-2
1SX01008 R/W	CSR-I-M-2-048	GJS	PSJ	NONE
1CV59090X R/C	CSR-I-M-2-049	GJS	FIS	NONE
1WB32018X R/W	CSR-I-M-2-050	GJS	TRY	NONE
1SX17007X R/W	CSR-I-M-2-051	FIS	GJS	NONE
ICC25018 R/W	CSR-I-M-2-053	FIS	PJT	NONE
1SX06028 R/D	CSR-I-M-2-054	PJT	TRY	ATTACHMENT LOCATION, CLAMP DIMS. / CSR-I-M-2-054-3
1D0180056 R/C	CSR-I-M-2-055	GJS	PSJ	NONE

REVERIFICATION OF CSR SUPPORT REINSPECTION

POPULATION LARGE BORE NON-RIGID PIPE SUPPORTS

SUPPORT NO.	CSR PKG. NO.	INSPECTED BY	REVERIFIED BY	ADDITIONAL OBSERVATION DESCRIPTION & REPORT NO.
ZDB060105 R/L	CSR-I-M-3-002	PSJ	TRY	NONE
ICV070425 R/L	CSR-I-M-3-003	GJS	PSJ	NONE
ICE240285 F R/L	CSR-I-M-3-004	PSJ	GJS	INCORRECT SNUBBER INSTALLED / CSR-I-M-3-004-1
ISI000045 R/L	CSR-I-M-3-005	PJT	FIS	NONE
ICV060225 R/E	CSR-I-M-3-006	GJS	PJT	NONE
ICS03029V R/F	CSR-I-M-3-008	PSJ	TRY	INCORRECT SIZE MATR'L, SUPPL. STEEL DIM. / CSR-I-M-3-008-5
ICV060195 R/B	CSR-I-M-3-009	GJS	PSJ	NONE
ICV040355 R/L	CSR-I-M-3-010	PSJ	GJS	NONE
ZFC01005V R/D	CSR-I-M-3-011	FIS	GJS	NONE
ISI030035 R/L	CSR-I-M-3-012	PSJ	PJT	NONE
IFW090225 R/L	CSR-I-M-3-013	PSJ	TRY	NONE
ISI010305 R/L	CSR-I-M-3-015	PJT	GJS	NONE
ICV030005 R/F	CSR-I-M-3-016	GJS	PSJ	NONE
ISI030065 R/L	CSR-I-M-3-017	PSJ	FIS	INCORRECT CLAMP INSTALLED / CSR-I-M-3-017-2
IRC100345 R/2	CSR-I-M-3-019	HWN	PJT	NONE
IRC10042V R/D	CSR-I-M-3-020	TRY	GJS	NONE
ISX28018V R/D	CSR-I-M-3-021	PJT	TRY	NONE
IRN02009 S R/E	CSR-I-M-3-022	GJS	PJT	INCORRECT MATR'L + DIMENSION / CSR-I-M-3-022-1
ZFC01001V R/E	CSR-I-M-3-023	TRY	PSJ	NONE
ICC01027V R/L	CSR-I-M-3-024	GJS	FIS	NONE
IFW080165 R/L	CSR-I-M-3-025	TRY	GJS	NONE
ICV040255 R/D	CSR-I-M-3-026	FIS	TRY	NONE
ICC02001V R/D	CSR-I-M-3-027	HWN	PJT	NONE

REVERIFICATION OF CSR SUPPORT REINSPECTION

POPULATION LARGE BORE NON-RIGID PIPE SUPPORTS				
SUPPORT NO.	CSR PKG. NO.	INSPECTED BY	REVERIFIED BY	ADDITIONAL OBSERVATION DESCRIPTION & REPORT NO.
1MS010835 R/D	CSR-I-M-3-029	PJT	PSJ	NONE
1CV070215 R/E	CSR-I-M-3-030	FIS	TRY	NONE
1EV060145 R/C	CSR-I-M-3-031	PSJ	PJT	NONE
1ES040025 R/*	CSR-I-M-3-032	PSJ	GJS	NONE
1FW120255 R/D	CSR-I-M-3-033	PJT	PSJ	DIMENSION OUT OF TOLERANCE. CSR-I-M-3-033-3
1CV02009V R/F	CSR-I-M-3-034	PSJ	GJS	NONE
1AF04032V R/F	CSR-I-M-3-036	GJS	PJT	NONE
1CV03009S R/D	CSR-I-M-3-037	TRY	GJS	NONE
1CV04036S R/C	CSR-I-M-3-038	PSJ	TRY	NONE
1CS01040C R/E	CSR-I-M-3-040	TRY	PSJ	NONE
1SI130385 R/B	CSR-I-M-3-042	HWN	FIS	NONE
1SI06009V R/*	CSR-I-M-3-043	GJS	PSJ	VENDOR FABRICATED DIMENSION. CSR-I-M-3-043-6
1CV47029V R/C	CSR-I-M-3-044	HMS	PJT	ATTACHMENT TO SUPP. STEEL OUT OF TOL. CSR-I-M-3-044-3
1RY090015 R/F	CSR-I-M-3-045	TRY	PJT	INCORRECT W-SHAPE INSTALLED. CSR-I-M-3-045-3
1FW090145 R/B	CSR-I-M-3-046	TRY	PJT	NONE
1RY06013V R/D	CSR-I-M-3-047	PJT	PSJ	NONE
2SI180035 R/A	CSR-I-M-3-048	PJT	GJS	NONE
1SI040075 R/D	CSR-I-M-3-049	FIS	PSJ	NONE
1SI04023V R/D	CSR-I-M-3-051	FIS	TRY	"C" DIMENSION ON CLAMP. CSR-I-M-3-051-4
1FW060145 R/D	CSR-I-M-3-052	TRY	GJS	NONE
1RH020615 R/D	CSR-I-M-3-053	HWN	TRY	NONE
1CC02077V R/C	CSR-I-M-3-055	HMS	PSJ	NONE
1AF04033V R/D	CSR-I-M-3-056	GJS	FIS	B.O.M. CONFLICT. CSR-I-M-3-056-3

REVERIFICATION OF CSR SUPPORT REINSPECTION

POPULATION		SMALL BORE PIPE SUPPORTS		
REPORT NO.	CSR PKG. NO.	INSPECTED BY	REVERIFIED BY	ADDITIONAL OBSERVATION DESCRIPTION & REPORT NO.
DAB73B-H06 R/C	CSR-I-M-6-001	HWN	TRY	NONE
CC06B-H05 R/D	CSR-I-M-6-002	HWN	GJS	NONE
CC08B-H25 R/D	CSR-I-M-6-003	HWN	PSJ	NONE
ICC32A-H01 R/D	CSR-I-M-6-004	PJT	FIS	NONE
ICC66AA-01 R/D	CSR-I-M-6-005	HMS	PJT	NONE
D003AD-09 R/D	CSR-I-M-6-006	HWN	PJT	NONE
ID003BA-02 R/D	CSR-I-M-6-007	HWN	TRY	NONE
ID059A-04 R/D	CSR-I-M-6-008	HWN	TRY	NONE
ID071BB-H14 R/A	CSR-I-M-6-009	HWN	GJS	NONE
ISA77AD-03 R/D	CSR-I-M-6-010	PJT	PSJ	NONE
ISA78AD-02 R/D	CSR-I-M-6-011	PJT	FIS	NONE
ISX68AB-H04 R/D	CSR-I-M-6-012	HWN	PJT	NONE
ISX95A-H06 R/A	CSR-I-M-6-013	HWN	TRY	NONE
ZCC08B-H07 R/D	CSR-I-M-6-014	HWN	GJS	NONE
ZCC32A-H02 R/D	CSR-I-M-6-015	HMS	PSJ	NONE
IFW94H006T R/A	CSR-I-M-6-016	TRY	FIS	NONE
ICV2A011G R/B	CSR-I-M-6-017	HMS	PJT	NONE
ICV62008 R/E	CSR-I-M-6-017	TRY	GJS	NONE
ISD030315 R/C	CSR-I-M-6-019	PSJ	PJT	NONE
ICVF22004G R/A	CSR-I-M-6-020	TRY	PSJ	NONE
IRC42006G R/B	CSR-I-M-6-021	PJT	TRY	NONE
ICS06048X R/X	CSR-I-M-6-022	GJS	PJT	NONE
ICV102004G R/C	CSR-I-M-6-023	TRY	FIS	NONE

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REVERIFICATION OF CSR SUPPORT REINSPECTION

POPULATION SMALL BORE PIPE SUPPORTS

REPORT NO.	CSR PKG. NO.	INSPECTED BY	REVERIFIED BY	ADDITIONAL OBSERVATION DESCRIPTION & REPORT NO.
SI303046 R/C	CSR-I-M-6-024	DRW	PJT	NONE
SI300266 R/C	CSR-I-M-6-025	HWN	TRY	NONE
CV62044R R/F	CSR-I-M-6-026	PSJ	GJS	NONE
RC211206 R/B	CSR-I-M-6-027	TRY	PSJ	NONE
CV090615 R/B	CSR-I-M-6-028	PSJ	GJS	NONE
CVF05005T R/A	CSR-I-M-6-029	TRY	PJT	NONE
SI300256 R/C	CSR-I-M-6-030	GJS	TRY	NONE
SI220496 R/B	CSR-I-M-6-031	DRW	GJS	DIMENSION OUT OF TOLERANCE. CSR-I-M-6-031-3
AB968202T R/A	CSR-I-M-6-032	GJS	PSJ	NONE
SI300056 R/D	CSR-I-M-6-033	PSJ	TRY	NONE
RC232176 R/B	CSR-I-M-6-034	PJT	TRY	NONE
RM070636 R/A	CSR-I-M-6-035	TRY	PJT	NONE
CV17116T R/A	CSR-I-M-6-036	GJS	PJT	NONE
SI16023X R/1	CSR-I-M-6-037	PJT	GJS	INCORRECT REAR BRACKET. CSR-I-M-6-037-2
MS94A004T R/A	CSR-I-M-6-038	HWN	PSJ	NONE
CV11008X R/C	CSR-I-M-6-039	PJT	PSJ	NONE
CV40003X R/E	CSR-I-M-6-040	PSJ	PJT	NONE
CV090345 R/C	CSR-I-M-6-041	PJT	GJS	NONE
CV63020R R/D	CSR-I-M-6-042	GJS	TRY	NONE
CV17111T R/A	CSR-I-M-6-044	DRW	GJS	NONE
RC252066 R/B	CSR-I-M-6-045	GJS	PSJ	NONE
CVF080025 R/B	CSR-I-M-6-046	TRY	FIS	NONE
RC2018A335T R/A	CSR-I-M-6-047	PSJ	PJT	NONE

BCAP OBSERVATION RECORD

Page 1 of 3

1. OBSERVATION NO. CE-11-011

PART 1 OBSERVATION IDENTIFICATION & DESCRIPTION

2. DESCRIPTION OF ITEM (Equipment, Material, Component, Procedure): 28" REFERENCE POINT FOR CSRT DURING REPAIR 3. PACKAGE NO. CE-11-011

4. SYSTEM (if known): AF 5. CHECKLIST/ITEM NO. CE-11-011

6. UNIT 1 UNIT 2 COMMON 0 7. SUPPORT SERVICE NO. CE-11-011

8. ELEMENT CSR RPSR RSCAP 9. OBSERVED DURING: Reinspection Procedure Review Documentation Review Implementatic Review Other

10. DESCRIPTION OF OBSERVATION:
- 28" REFERENCE POINT OF MATERIAL ITEM #4 (SEE PART 2) REFERRED A FIG# 140A 1/2" ROD THROUGH RD WITH IS TO BE INSTALLED. HOWEVER THE 1/2" X 11" LONG ROD THAT IS INSTALLED IS NOT FULL THREADED FOR A 7" LENGTH STARTING IN THE CENTER OF THE RD. ITEM #4 ALSO REFERRED A FIG# 137A 1/2" ROD COUPLING IS TO BE INSTALLED. THE 1/2" ROD COUPLING INSTALLED WAS FOUND TO BE 1" DIA, 1 1/4" LONG, HOWEVER, THESE DIMENSIONS CONTRAST WITH THE VENDOR DIMENSIONS FOR A ROD COUPLING THIS SIZE. VENDOR DIMENSIONS ARE: GRINNELL FIG# 135 (FORMERLY HS 79) - 7/4" DIA, 1 1/2" LONG; CURTIS HADOF FIG# 372 - 1 1/4" LONG; ELCEC FIG# 117-712 DIA, 1 1/4" LONG

28" REFERENCE POINT 358' ELEV. 9" SOUTH OF 28, 15' WEST OF Q 11. PREPARED BY: [Signature] Signature

PART 2 OBSERVATION CLARITY, COMPLETENESS, AND ACCURACY REVIEW

12. COMMENTS/CLARIFICATION: NOTE (P. 126-8)

THE T.F.L. ROD IS A RIGHT-LEFT HAND THREADABLE ROD FOR USE WITH A STANDARD COUPLING. THE 7/8" SEPARATION BETWEEN THREADS IS STANDARD. THE ENTRY ABOVE REFERENCE THE ROD IS NOT SUITABLE FOR FURTHER PROCESSING, AND IS CLOSED.

THE ENTRY ABOVE REFERENCE THE ROD COUPLING IS SUITABLE FOR PROCESSING AND REMAINS OPEN [Signature] CONCURRED [Signature] 126-85

13. SUITABLE FOR FURTHER PROCESSING: YES NO 14. REVIEWED BY: [Signature] Signature

BCAP OBSERVATION RECORD
Page 1 of 3

1. OBSERVATION NO. ST-17-0001

PART 1		OBSERVATION IDENTIFICATION & DESCRIPTION	
2. DESCRIPTION OF ITEM (Equipment, Material, Component, Procedure): <u>PIPE SIZE AND PIPE SUPPORT DUE TO PROXIMITY TO</u>		3. PACKAGE NO. <u>CS-17-0001</u>	
4. SYSTEM (if known): <u>FD</u>		5. CHECKLIST/ITEM NO. <u>CS-17-0001</u>	
6. UNIT 1 <input checked="" type="checkbox"/>	UNIT 2 <input type="checkbox"/>	COMMON 0 <input type="checkbox"/>	7. SUPPORT SERVICE R NO. <u>1517-0001</u>
8. ELEMENT <input checked="" type="checkbox"/> CSR <input type="checkbox"/> RPSR <input type="checkbox"/> RSCAP		9. OBSERVED DURING: <input checked="" type="checkbox"/> Reinspection <input type="checkbox"/> Procedure Rev: Implementation <input type="checkbox"/> Documentation Review <input type="checkbox"/> Other	

10. DESCRIPTION OF OBSERVATION:
 *IFF 13013R BILL OF MATERIALS, ITEM # 7, INDICATES A FIG # HS79-1/2" DIA COUPLER IS TO BE INSTALLED. THE 1/2" DIA COUPLER INSTALLED WAS FOUND TO BE 1" DIA 1 1/4" LONG, HOWEVER, THE DIMENSIONS OBTAIN WITH THE GIVEN VERTICAL DIMENSIONS FOR A COUPLER THIS SIZE.
 VERTICAL DIMENSIONS ARE: ITT CIRCUIT FIG 135 (FORMERLY HS79) - 3/4" DIA, 1 1/2" LONG. CORRECT LADA FIG # 372 - 1 1/4" LONG; ELIN FIG # 117 - 7/8" DIA, 1 1/4" LONG.

IFF 13013R LOCATED BY BLDG. ELEV 338±3", 3'-9" SOUTH OF 13, 9'-6" WEST OF U.	11. PREPARED BY: <u>[Signature]</u> Signature Date
--	--

PART 2 OBSERVATION CLARITY, COMPLETENESS, AND ACCURACY REVIEW

12. COMMENTS/CLARIFICATION: NONE

13. SUITABLE FOR FURTHER PROCESSING:	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	14. REVIEWED BY: <u>[Signature]</u> Signature Date
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BCAP OBSERVATION RECORD
Page 1 of 3

1. OBSERVATION NO. CSF 2-07-2007

PART 1			OBSERVATION IDENTIFICATION & DESCRIPTION		
2. DESCRIPTION OF ITEM (Equipment, Material, Component, Procedure): <u>LEADS BUSH RIGID PIPE SUPPORT DWS & M-1000/ELITE R/C</u>			3. PACKAGE NO. <u>CSF 2-07-2007</u>		
4. SYSTEM (if known): <u>FWS (LEADS WATER)</u>			5. CHECKLIST/ITEM: <u>CSF 2-07-2007</u>		
6. UNIT 1 <input checked="" type="checkbox"/>	UNIT 2 <input type="checkbox"/>	COMMON 0 <input type="checkbox"/>	7. SUPPORT SERVICE NO. <u>NA</u>		
8. ELEMENT			9. OBSERVED DURING:		
<input checked="" type="checkbox"/> CSR	<input type="checkbox"/> RPSR	<input type="checkbox"/> RSCAP	<input checked="" type="checkbox"/> Reinspection	<input type="checkbox"/> Procedure Review	<input type="checkbox"/> Implementation
			<input type="checkbox"/> Documentation Review	<input type="checkbox"/> Review	<input type="checkbox"/> Other

10. DESCRIPTION OF OBSERVATION:

CLAMP DIMENSIONS DO NOT MATCH VENDOR CATALOG

ACTUAL DIMENSIONS:

S DIM = 1 1/16", STOCK = 3 1/8" x 3/8"

REQUIRED DIMENSIONS S = 1 3/8", STOCK = 1/2" x 2 1/2"

(FOR FIG 211 N, FIG 211) AND ALLOWABLE

SUBSTITUTION OF FIG 306/307 SIZE 3

11. PREPARED BY: [Signature]
Signature Date

PART 2 OBSERVATION CLARITY, COMPLETENESS, AND ACCURACY REVIEW

12. COMMENTS/CLARIFICATION: NONE

13. SUITABLE FOR FURTHER PROCESSING: YES NO

14. REVIEWED BY: [Signature] 1-25-
Signature Date

BCAP OBSERVATION RECORD

Page 1 of 3

1. OBSERVATION NO. CSR-I-M-2-01

PART 1		OBSERVATION IDENTIFICATION & DESCRIPTION	
2. DESCRIPTION OF ITEM (Equipment, Material, Component, Procedure): LARGE BORE RIGID PIPE SUPPORTS Dwg. # M-15X17067X R/H		3. PACKAGE NO. CSR-I-M-2-051	
4. SYSTEM (if known): SX		5. CHECKLIST/ITEM CSR-I-M-2-051	
6. UNIT 1 <input checked="" type="checkbox"/>	UNIT 2 <input type="checkbox"/>	COMMON 0 <input type="checkbox"/>	
8. ELEMENT		9. OBSERVED DURING:	
<input checked="" type="checkbox"/> CSR	<input type="checkbox"/> RPSR	<input checked="" type="checkbox"/> Reinspection	<input type="checkbox"/> Procedure Re Implementation Review
<input type="checkbox"/> BSCAP	<input type="checkbox"/> BSCAP	<input type="checkbox"/> Documentation Review	<input type="checkbox"/> Other

10. DESCRIPTION OF OBSERVATION:

A 211 SIZE-1 GRINNEL (3" X 4 1/2" X 3 1/4") ^{REAR BRACKET} ~~WAS~~ ^{AS SHOWN} ~~IS~~ INSTALLED. A 211N SIZE-1 GRINNEL (2 1/2" X 4 1/4" X 1 3/4") ~~WAS~~ ^{REAR BRACKET} IS CALLED FOR ON BOM.

11. PREPARED BY:

[Signature]
Signature

PART 2 OBSERVATION CLARITY, COMPLETENESS, AND ACCURACY REVIEW

12. COMMENTS/CLARIFICATION: NOT SUITABLE FOR FURTHER PROCESSING. WHERE THE 211N GRINNEL FIG. 211N IS SHOWN ON THE B.O.M., THE FIG. 211 IS AN ACCEPTED ITEM.

I CONCUR *[Signature]* 1/22/85

13. SUITABLE FOR FURTHER PROCESSING:

YES
NO

14. REVIEWED BY:

[Signature] LL
Signature

BCAP OBSERVATION RECORD

Page 1 of 3

1. OBSERVATION NO. CSP-I-M-2

PART 1		OBSERVATION IDENTIFICATION & DESCRIPTION	
2. DESCRIPTION OF ITEM (Equipment, Material, Component, Procedure): <u>MISX06028R LG BORE PIPE SUPPORT</u>		3. PACKAGE NO. <u>CSP-I-M-2-05</u>	
4. SYSTEM (if known): <u>SX</u>		5. CHECKLIST/ITEM <u>CSP-I-M-2-054/</u>	
6. UNIT 1 <input checked="" type="checkbox"/>	UNIT 2 <input type="checkbox"/>	COMMON 0 <input type="checkbox"/>	
8. ELEMENT <input checked="" type="checkbox"/> CSR <input type="checkbox"/> RPSR <input type="checkbox"/> RSCAP		9. OBSERVED DURING: <input checked="" type="checkbox"/> Reinspection <input type="checkbox"/> Documentation Review	
		<input type="checkbox"/> Procedure R <input type="checkbox"/> Implementat <input type="checkbox"/> Review <input type="checkbox"/> Other	

10. DESCRIPTION OF OBSERVATION:

DIMENSION OUT OF TOLERANCE

CLAMP DIMENSIONS DO NOT MATCH VENDOR CATALOG

1 ATTACHMENT, 1 PAGE

11. PREPARED BY:
[Signature]
Signature

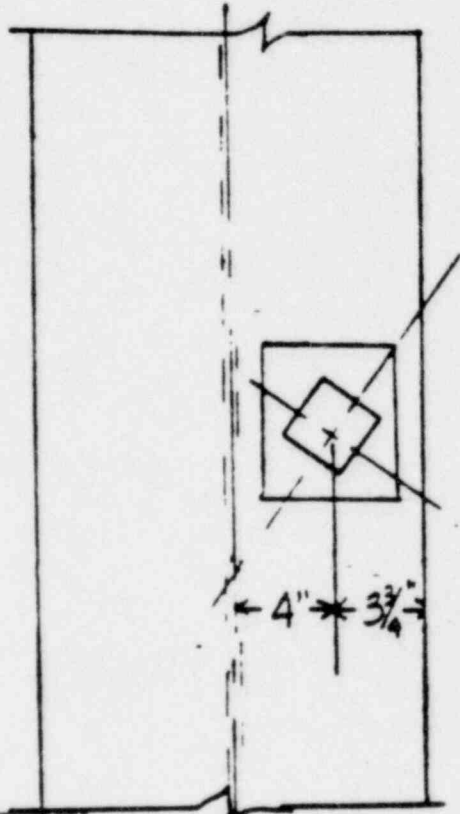
PART 2 OBSERVATION CLARITY, COMPLETENESS, AND ACCURACY REVIEW

12. COMMENTS/CLARIFICATION: NONE

13. SUITABLE FOR FURTHER PROCESSING:

YES
NO

14. REVIEWED BY:
[Signature]
Signature



Flange PLAN

ATTACHMENT 3/4" OFF OF DESIGN
SHOWN ON DRAWING

[Signature]
1-11-85

BCAP OBSERVATION RECORD
Page 1 of 3

1. OBSERVATION NO. USE-TM-2-85

PART 1			OBSERVATION IDENTIFICATION & DESCRIPTION		
2. DESCRIPTION OF ITEM (Equipment, Material, Component, Procedure): <u>LARGE BORE RIGID PIPE SUPPORTS DUG & M-16-DIGGER T/E</u>			3. PACKAGE NO. <u>USE-TM-2-85</u>		
4. SYSTEM (if known): <u>FM</u>			5. CHECKLIST/ITEM # <u>USE-TM-2-85/1</u>		
6. UNIT 1	<input checked="" type="checkbox"/>	UNIT 2	<input type="checkbox"/>	COMMON 0	<input type="checkbox"/>
8. ELEMENT			9. OBSERVED DURING:		
<input checked="" type="checkbox"/>	CSR	<input type="checkbox"/>	RPSR	<input type="checkbox"/>	RSCAP
			<input checked="" type="checkbox"/>	Reinspection	<input type="checkbox"/>
			<input type="checkbox"/>	Documentation Review	<input type="checkbox"/>
			<input type="checkbox"/>	Procedure Rev	<input type="checkbox"/>
			<input type="checkbox"/>	Implementatio	<input type="checkbox"/>
			<input type="checkbox"/>	Review	<input type="checkbox"/>
			<input type="checkbox"/>	Other	<input type="checkbox"/>

10. DESCRIPTION OF OBSERVATION:

BCM ITEM NO 4 IS DESCRIBED AS ^{REF 2-2485} A STANDARD
CLAMP FOR USE WITH A FIG 211. CONTRARY TO THIS
A STIFFENER CLAMP HAS BEEN USED

11. PREPARED BY: [Signature]
Signature

PART 2 OBSERVATION CLARITY, COMPLETENESS, AND ACCURACY REVIEW

12. COMMENTS/CLARIFICATION: NONE

13. SUITABLE FOR FURTHER PROCESSING: YES NO

14. REVIEWED BY: [Signature]
Signature

BCAP OBSERVATION RECORD

Page 1 of 3

1. OBSERVATION NO. CSR - M-2-001

PART 1				OBSERVATION IDENTIFICATION & DESCRIPTION			
2. DESCRIPTION OF ITEM (Equipment, Material, Component, Procedure): <u>LOCAL BORE AND PIPES SUPPORTS DUE TO CSX NUMBER 50</u>				3. PACKAGE NO. <u>CSR - M-2-001</u>			
4. SYSTEM (if known): <u>SX</u>				5. CHECKLIST/ITEM NO. <u>CSR - M-2-001 / 2</u>			
6. UNIT 1 <input type="checkbox"/>		UNIT 2 <input checked="" type="checkbox"/>		COMMON 0 <input type="checkbox"/>		7. SUPPORT SERVICE R NO. NAME	
8. ELEMENT				9. OBSERVED DURING:			
<input checked="" type="checkbox"/> CSR <input type="checkbox"/> RPSR <input type="checkbox"/> RSCAP				<input type="checkbox"/> Procedure Rev: <input checked="" type="checkbox"/> Reinspection <input type="checkbox"/> Implementation <input type="checkbox"/> Documenta- <input type="checkbox"/> Review tion Review <input type="checkbox"/> Other			
10. DESCRIPTION OF OBSERVATION:							
<u>AS BUILT SUPPORT DRAWING NEGLECTED TO</u> <u>INDICATE AN ADDITIONAL HEX NUT ABOVE THE</u> <u>5 - A TURNBUCKLE. VENDOR CATALOG, SHOWS</u> <u>THAT A NUT SHOULD BE INSTALLED ON EACH</u> <u>SIDE OF THE TURNBUCKLE. CHECK LIST INST-</u> <u>RUCTIONS REQUIRE THAT ALL ITEMS ON THE</u> <u>SUPPORT BE LISTED ON THE BOM</u>							
						11. PREPARED BY: <u>[Signature]</u> Signature Date	

PART 2 **OBSERVATION CLARITY, COMPLETENESS, AND ACCURACY REVIEW**

12. COMMENTS/CLARIFICATION: NONE

13. SUITABLE FOR FURTHER PROCESSING:		YES <input checked="" type="checkbox"/>		14. REVIEWED BY:	
NO <input type="checkbox"/>				<u>[Signature]</u> <u>1-25</u>	
				Signature Date	

BCAP OBSERVATION RECORD

Page 1 of 3

1. OBSERVATION NO. CSF-1-M-3-

PART 1		OBSERVATION IDENTIFICATION & DESCRIPTION	
2. DESCRIPTION OF ITEM (Equipment, Material, Component, Procedure): <u>Large Blue Non Rigid Support M-1250302AV R/F</u>		3. PACKAGE NO. <u>CSF-1-M-3-008</u>	
4. SYSTEM (if known): <u>CS</u>		5. CHECKLIST/ITE <u>CSF-1-M-3-008</u>	
6. UNIT 1 <input checked="" type="checkbox"/>	UNIT 2 <input type="checkbox"/>	COMMON 0 <input type="checkbox"/>	
8. ELEMENT		9. OBSERVED DURING:	
<input checked="" type="checkbox"/> CSR	<input type="checkbox"/> RPSR	<input type="checkbox"/> RSCAP	<input type="checkbox"/> Procedure <input checked="" type="checkbox"/> Reinspection <input type="checkbox"/> Documentation Review <input type="checkbox"/> Other

10. DESCRIPTION OF OBSERVATION:

- ① item 8.11. of Material calls for 1/2" x 4" x 4" x 0'-6" LG, actual installed 3/8" x 3 1/2" x 3 1/2" x 0'-6" LG.
- ② item 10 on Bill of Material calls for 3/8" x 3" x 3" x 0'-13/4" LG, actual installed 1/4" x 3" x 3" x 0'-13/4" LG.

11. PREPARED BY:
[Signature]
Signature

PART 2 OBSERVATION CLARITY, COMPLETENESS, AND ACCURACY REVIEW

12. COMMENTS/CLARIFICATION: NONE

13. SUITABLE FOR FURTHER PROCESSING: YES NO

14. REVIEWED BY:
[Signature]
Signature

BCAP OBSERVATION RECORD
Page 2 of 3

15. OBSERVATION NO. CSE-7 A 2 C

PART 3 EVALUATION & DETERMINATION OF VALIDITY

16. EVALUATION

Part 1 & 2 of the Observation
Record Form were reviewed and
found to be clear, complete and accurate.

17. DETERMINATION OF VALIDITY:

INVALID
 VALID

This observation has been determined to be
valid based on a review of the Sargent and Lundy
specified design. The review was conducted in
accordance with procedure BCAP-06 rev 6 article
4.3.3.

BWJ 1-18-85

19. ACKNOWLEDGED BY:	20. REVIEWED BY:	18. EVALUATION & DETERMINED BY:
Signature _____ Date _____	Signature _____ Date _____	Signature _____ Date _____
		21. APPROVED BY:
		Signature _____ Date _____

BCAP OBSERVATION RECORD
Page 1 of 3

1. OBSERVATION NO. 007-17-3-005

PART 1 OBSERVATION IDENTIFICATION & DESCRIPTION

2. DESCRIPTION OF ITEM (Equipment, Material, Component, Procedure): WIRE ROPE LIFTING AND FREE EXTRACTS WIRE M-105012HV RIF 3. PACKAGE NO. 007-17-3-005

4. SYSTEM (if known): CS 5. CHECKLIST/ITEM NO. 007-17-3-005

6. UNIT 1 UNIT 2 COMMON 0 7. SUPPORT SERVICE R. NO. 005

8. ELEMENT CSR RPSR RSCAP 9. OBSERVED DURING: Reinspection Documentation Review Procedure Revi Implementation Review Other

10. DESCRIPTION OF OBSERVATION: Drawing shows dimension 1.130 from Q of Rod to Q of W24x68, actual measurement is 7/16"

11. PREPARED BY: [Signature] 1-23
Signature Date

PART 2 OBSERVATION CLARITY, COMPLETENESS, AND ACCURACY REVIEW

12. COMMENTS/CLARIFICATION: REVERIFICATION REVEALED SUBJECT DIMENSION TO BE 0-7/16" WHICH IS 0-0/16" OUT OF TOLERANCE. CLAMP LOCATION IS WITHIN ALLOWABLE TOLERANCE AND ROD IS VERTICAL

13. SUITABLE FOR FURTHER PROCESSING: YES NO 14. REVIEWED BY: [Signature] 1-24
Signature Date

BCAP OBSERVATION RECORD

Page 1 of 3

1. OBSERVATION NO. CSF 2-17-3-07

PART 1		OBSERVATION IDENTIFICATION & DESCRIPTION	
2. DESCRIPTION OF ITEM (Equipment, Material, Component, Procedure): <u>151030065 FIRE CLAMP W/TH STIFFENER WELDED (NUTS TO THE OUTSIDE OF FIRE CLAMP AND THESE STIFFENERS ARE WELDED AT THE TOP HALF OF FIRE CLAMP)</u>		3. PACKAGE NO. <u>CSF 2-17-3-07</u>	
4. SYSTEM (if known): <u>SS</u>		5. CHECKLIST/ITEM NO. <u>CSF 2-17-3-07 / 3</u>	
6. UNIT 1 <input checked="" type="checkbox"/>	UNIT 2 <input type="checkbox"/>	COMMON 0 <input type="checkbox"/>	7. SUPPORT SERVICE RE NO. <u>CSF-0019</u>
8. ELEMENT: <input checked="" type="checkbox"/> CSR <input type="checkbox"/> RPSR <input type="checkbox"/> RSCAP		9. OBSERVED DURING: <input checked="" type="checkbox"/> Reinspection <input type="checkbox"/> Procedure Review <input type="checkbox"/> Documentation Review <input type="checkbox"/> Implementation Review <input type="checkbox"/> Other	

10. DESCRIPTION OF OBSERVATION:
 - 151030065 FIRE CLAMP WAS FOUND WITH STIFFENERS WELDED (NUTS TO THE OUTSIDE OF FIRE CLAMP AND THESE STIFFENERS ARE WELDED AT THE TOP HALF OF FIRE CLAMP)
 UNABLE TO VERIFY CONFIGURATION OF THIS INSTALLED CLAMP DUE TO THE VENDOR CATALOGS (PROVIDED) DO NOT PROVIDE THIS TYPE OF CLAMP CONFIGURATION.

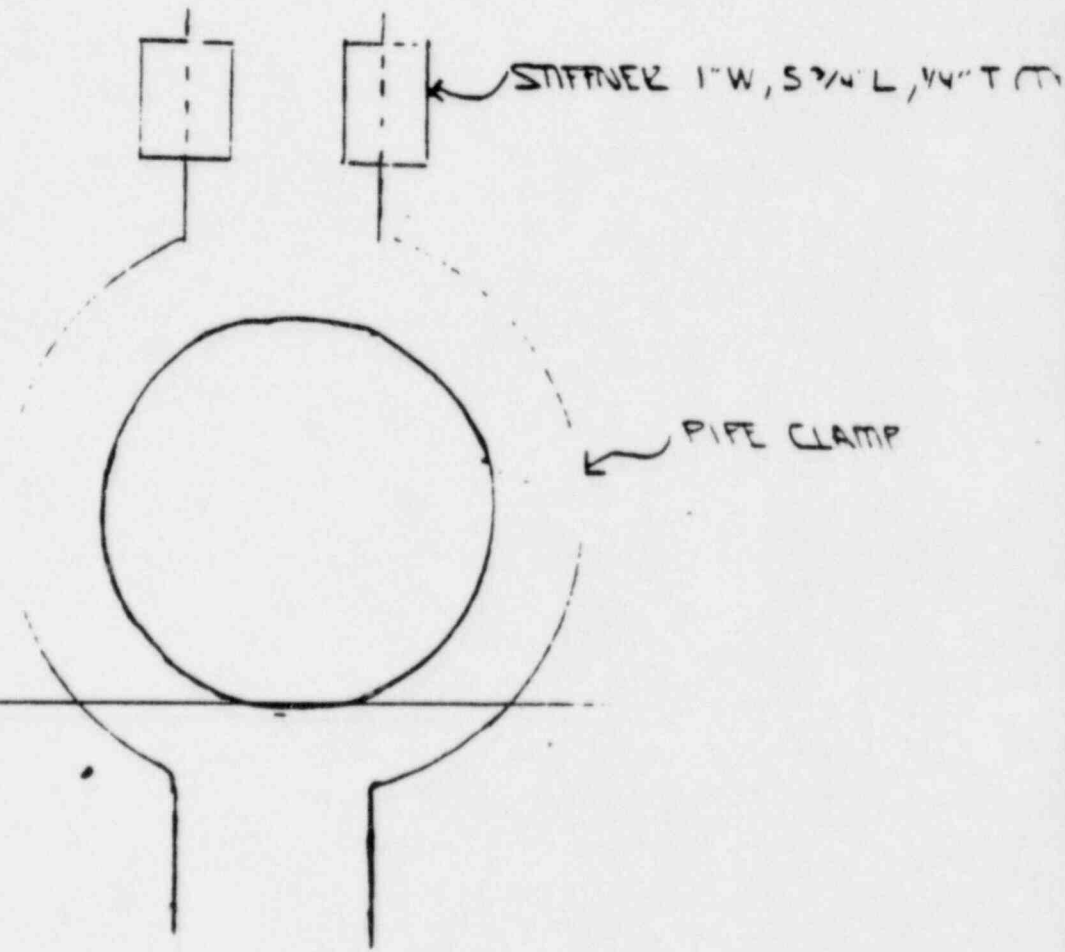
ATTACHMENT, 1 PAGE

* 151030065 INSTALLED 418'-3" RB ELEV. 7'6 7/8" NORTH OF 1'9 7/8" WEST OF E	11. PREPARED BY: <input checked="" type="checkbox"/> Signature <input type="checkbox"/> Date
---	---

PART 2 OBSERVATION CLARITY, COMPLETENESS, AND ACCURACY REVIEW

12. COMMENTS/CLARIFICATION: NONE

13. SUITABLE FOR FURTHER PROCESSING:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	14. REVIEWED BY: <u>[Signature]</u>	Date: <u>1-25</u>
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Shaw
11-2-85

BCAP OBSERVATION RECORD
Page 1 of 3

1. OBSERVATION NO. CSF-2-77-3-

PART 1				OBSERVATION IDENTIFICATION & DESCRIPTION			
2. DESCRIPTION OF ITEM (Equipment, Material, Component, Procedure): <u>LARGE SIZE NO. FOLD PAPER SUPPORTS</u>				3. PACKAGE NO. <u>ONE-T-M-3-40</u>			
4. SYSTEM (if known): <u>RH</u>				5. CHECKLIST/ITEM <u>PST-2-M-3-527</u>			
6. UNIT 1 <input checked="" type="checkbox"/>		UNIT 2 <input type="checkbox"/>		COMMON 0 <input type="checkbox"/>		7. SUPPORT SERVICE NO. <u>NONE</u>	
8. ELEMENT				9. OBSERVED DURING:			
<input checked="" type="checkbox"/> CSR <input type="checkbox"/> RPSR <input type="checkbox"/> RSCAP				<input checked="" type="checkbox"/> Reinspection		<input type="checkbox"/> Procedure Re Implementati	
				<input type="checkbox"/> Documenta- tion Review		<input type="checkbox"/> Review	
						<input type="checkbox"/> Other	

10. DESCRIPTION OF OBSERVATION:

BOM CALLS FOR A WBX17, (ITEM 3) A WBX21 WAS USED IN OF THE WBX17

DRAFTING ERROR IN SECT CL - SEE ATTACHMENT 1

ONE ATTACHMENT, ONE PAGE

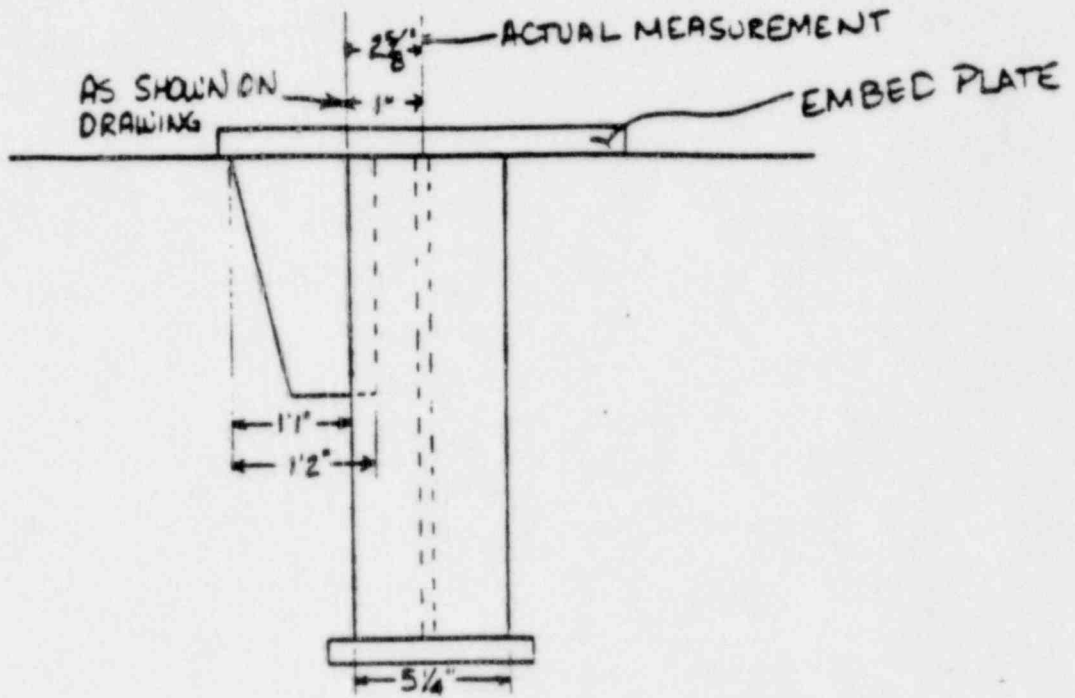
11. PREPARED BY:
[Signature]
Signature

PART 2 OBSERVATION CLARITY, COMPLETENESS, AND ACCURACY REVIEW

12. COMMENTS/CLARIFICATION: NONE

13. SUITABLE FOR FURTHER PROCESSING: YES NO

14. REVIEWED BY: [Signature] 1-2
Signature



Handwritten signature
1-23-85

BCAP OBSERVATION RECORD

Page 1 of 3

1. OBSERVATION NO. 05F-I-M-3-033

PART 1 OBSERVATION IDENTIFICATION & DESCRIPTION

2. DESCRIPTION OF ITEM (Equipment, Material, Component, Procedure): FREE BUREAU FIELD PFC SUPPORTS DUM M IEN 2025 R/D 3. PACKAGE NO. CSE-I-M-3-033

4. SYSTEM (if known): FW 5. CHECKLIST/ITEM NO. CSE-I-M-3-033 / -

6. UNIT 1 UNIT 2 COMMON 0 7. SUPPORT SERVICE # NO. 05F-M-1-02

8. ELEMENT CSR RPSR RSCAP 9. OBSERVED DURING: Reinspection Procedure Revi Implementation Documenta- tion Review Review Other

10. DESCRIPTION OF OBSERVATION: INSTALLED IN FIELD IS NOT YR X 10 PL THE INST DIMENS CN EXCEED

11. PREPARED BY: [Signature] 4/84
Signature Det

PART 2 OBSERVATION CLARITY, COMPLETENESS, AND ACCURACY REVIEW

12. COMMENTS/CLARIFICATION: NONE

13. SUITABLE FOR FURTHER PROCESSING: YES NO 14. REVIEWED BY: [Signature] 1-85
Signature Det

BCAP OBSERVATION RECORD
Page 1 of 3

1. OBSERVATION NO. 0021000000

PART 1		OBSERVATION IDENTIFICATION & DESCRIPTION	
2. DESCRIPTION OF ITEM (Equipment, Material, Component, Procedure): <u>WASHER PLATES PER VENDOR CATALOG (HS 45N)</u>		3. PACKAGE NO. <u>0021000000</u>	
4. SYSTEM (if known): <u>SI</u>		5. CHECKLIST/ITEM <u>0021000000</u>	
6. UNIT 1 <input checked="" type="checkbox"/>	UNIT 2 <input type="checkbox"/>	COMMON 0 <input type="checkbox"/>	7. SUPPORT SERVICE NO. <u>1111</u>
8. ELEMENT <input checked="" type="checkbox"/> CSR <input type="checkbox"/> RPSR <input type="checkbox"/> RSCAP		9. OBSERVED DURING: <input checked="" type="checkbox"/> Reinspection <input type="checkbox"/> Documentation Review <input type="checkbox"/> Procedure Re Implementation Review <input type="checkbox"/> Other	

10. DESCRIPTION OF OBSERVATION: CONFIGURATION; LOCATION OF WASHER PLATES PER VENDOR CATALOG (HS 45N) IS 1/4" FROM THE END OF THE CHANNEL ASSEMBLY. REINSPECTION REVEALS WASHER PLATES ARE LOCATED 1" FROM THE END OF THE CHANNEL ASSEMBLY. DETERMINED VISUALLY W/ MECHANICAL AIDS.

11. PREPARED BY:
[Signature]
Signature

PART 2 **OBSERVATION CLARITY, COMPLETENESS, AND ACCURACY REVIEW**

12. COMMENTS/CLARIFICATION: NONE

13. SUITABLE FOR FURTHER PROCESSING:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	14. REVIEWED BY: <u>[Signature]</u> Signature
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BCAP OBSERVATION RECORD

Page 1 of 3

1. OBSERVATION NO. 1002-003-001

PART 1				OBSERVATION IDENTIFICATION & DESCRIPTION			
2. DESCRIPTION OF ITEM (Equipment, Material, Component, Procedure):						3. PACKAGE NO.	
4. SYSTEM (if known):						5. CHECKLIST/ITEM NO.	
6. UNIT 1 <input checked="" type="checkbox"/>			UNIT 2 <input type="checkbox"/>		COMMON 0 <input type="checkbox"/>		7. SUPPORT SERVICE #
8. ELEMENT				9. OBSERVED DURING:			
<input checked="" type="checkbox"/> CSR <input type="checkbox"/> RPSR <input type="checkbox"/> RSCAP				<input checked="" type="checkbox"/> Reinspection		<input type="checkbox"/> Procedure Revi	
				<input type="checkbox"/> Documenta-		<input type="checkbox"/> Implementation	
				<input type="checkbox"/> tion Review		<input type="checkbox"/> Review	
						<input type="checkbox"/> Other	

10. DESCRIPTION OF OBSERVATION:

DIMENSION SHOWN FROM 4 BEAM TO 4 OF ROD IS 3'2 3/8" ACTUAL DIMENSION IS 3'10 1/2"

11. PREPARED BY: [Signature]
Signature

PART 2 OBSERVATION CLARITY, COMPLETENESS, AND ACCURACY REVIEW

12. COMMENTS/CLARIFICATION: NONE

13. SUITABLE FOR FURTHER PROCESSING:

YES
NO

16. REVIEWED BY: [Signature]
Signature

BCAP OBSERVATION RECORD

Page 1 of 3

1. OBSERVATION NO. CSR 2-M-3-045

PART 1				OBSERVATION IDENTIFICATION & DESCRIPTION			
2. DESCRIPTION OF ITEM (Equipment, Material, Component, Procedure): <u>PIPE BORE AND TEND PIPE SUPPORT W/ W/ X 15.5</u>						3. PACKAGE NO. <u>CSR 2-M-3-045</u>	
4. SYSTEM (if known): <u>RY</u>						5. CHECKLIST/ITEM NO. <u>CSR 2-M-3-045 / 2</u>	
6. UNIT 1 <input checked="" type="checkbox"/>		UNIT 2 <input type="checkbox"/>		COMMON 0 <input type="checkbox"/>		7. SUPPORT SERVICE NO. <u>NONE</u>	
8. ELEMENT				9. OBSERVED DURING:			
<input checked="" type="checkbox"/> CSR <input type="checkbox"/> RPSR <input type="checkbox"/> RSCAP				<input checked="" type="checkbox"/> Reinspection		<input type="checkbox"/> Procedure Rev	
				<input type="checkbox"/> Documenta- tion Review		<input type="checkbox"/> Implementatio	
						<input type="checkbox"/> Review	
						<input type="checkbox"/> Other	

10. DESCRIPTION OF OBSERVATION:
ITEM 2
W/ X 15.5 WAS USED INSTEAD OF A W/ X 15.5

11. PREPARED BY: [Signature]
 Signature Date

PART 2 OBSERVATION CLARITY, COMPLETENESS, AND ACCURACY REVIEW

12. COMMENTS/CLARIFICATION: NONE

13. SUITABLE FOR FURTHER PROCESSING: YES NO

14. REVIEWED BY: [Signature]
 Signature Date

BCAP OBSERVATION RECORD

Page 1 of 3

1. OBSERVATION NO. 1002 06-01-01

PART 1 OBSERVATION IDENTIFICATION & DESCRIPTION

2. DESCRIPTION OF ITEM (Equipment, Material, Component, Procedure): <u>LRFD BEARING FOR THE SUPPORTS</u>			3. PACKAGE NO. <u>CS-1-1002-01</u>
4. SYSTEM (if known): <u>CS</u>			5. CHECKLIST/ITEM NO. <u>CS-1-1002-01</u>
6. UNIT 1 <input checked="" type="checkbox"/>	UNIT 2 <input type="checkbox"/>	COMMON 0 <input type="checkbox"/>	7. SUPPORT SERVICE REF. NO. <u>CS-1-1002-01</u>
8. ELEMENT <input checked="" type="checkbox"/> CSR <input type="checkbox"/> BPSR <input type="checkbox"/> BSCAP		9. OBSERVED DURING: <input checked="" type="checkbox"/> Reinspection <input type="checkbox"/> Documentation Review <input type="checkbox"/> Procedure Review <input type="checkbox"/> Implementation Review <input type="checkbox"/> Other	

10. DESCRIPTION OF OBSERVATION:

"C" Dimension Required to be 1 7/8" on clamp, actual measures 1 1/2"

~~... measurement was at a heavy part stop~~
July, 1987

11. PREPARED BY:
[Signature] 1-23
Signature Date

PART 2 OBSERVATION CLARITY, COMPLETENESS, AND ACCURACY REVIEW

12. COMMENTS/CLARIFICATION: NONE

13. SUITABLE FOR FURTHER PROCESSING:

YES
NO

14. REVIEWED BY:
[Signature] 1-25
Signature Date

BCAP OBSERVATION RECORD

Page 1 of 3

1. OBSERVATION NO. CSR-ITM-3-1

PART 1			OBSERVATION IDENTIFICATION & DESCRIPTION		
2. DESCRIPTION OF ITEM (Equipment, Material, Component, Procedure): <u>ROD ASSEMBLY WITH 5/8" ROD ASSEMBLY</u>			3. PACKAGE NO. <u>CSR-ITM-3-1</u>		
4. SYSTEM (if known): <u>PC</u>			5. CHECKLIST/ITEM: <u>CSR-ITM-3-1</u>		
6. UNIT 1	<input checked="" type="checkbox"/>	UNIT 2	<input type="checkbox"/>	COMMON 0	<input type="checkbox"/>
8. ELEMENT			9. OBSERVED DURING:		
<input checked="" type="checkbox"/>	CSR	<input type="checkbox"/>	BPSR	<input type="checkbox"/>	RSCAP
			<input checked="" type="checkbox"/>	Reinspection	<input type="checkbox"/>
			<input type="checkbox"/>	Documentation Review	<input type="checkbox"/>
			<input type="checkbox"/>	Procedure Re-Implementation Review	<input type="checkbox"/>
			<input type="checkbox"/>	Other	<input type="checkbox"/>

10. DESCRIPTION OF OBSERVATION:
 INSTRUCTION 3.1 OF CSR-ITM-3, REV 1, REQUIRES A VERIFICATION THAT ALL ITEMS OF THE INSTALLED SURFACE THE SAME AS THOSE IDENTIFIED ON THE BILL OF MATERIALS (BOM) - 1A72433V, BOM ITEM #6 (ROD ASSEMBLY) INDICATE A QUANTITY OF ONE (1) 5/8" HEX NUT IS TO BE INSTALLED.
 HOWEVER, DURING THIS VERIFICATION A QUANTITY OF TWO (2) 5/8" HEX NUTS WERE FOUND INSTALLED, ONE EACH END OF THE 5/8" ROD COUPLING. THE INSTALLATION OF THE TWO HEX NUTS IS A REWORKMENT OF M919 SHT 10, REV G, PNEA 6-A (RESISTANCE TOLERANCES). THE CONFLICT IS THE BOM DOES NOT REFLECT THE CORRECT QUANTITY OF HEX NUTS INSTALLED ON THE ROD ASSEMBLY AS REQUIRED BY THE CSR-ITM-3 INSTRUCTION.

11. PREPARED BY:
[Signature]
 Signature

PART 2 OBSERVATION CLARITY, COMPLETENESS, AND ACCURACY REVIEW

12. COMMENTS/CLARIFICATION: AIRLIE

13. SUITABLE FOR FURTHER PROCESSING:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	14. REVIEWED BY: <u>[Signature]</u> Signature
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BCAP OBSERVATION RECORD

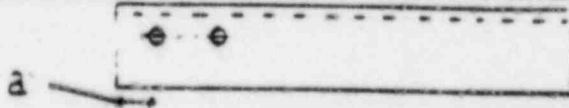
Page 1 of 3

1. OBSERVATION NO. 057-017-0001

PART 1				OBSERVATION IDENTIFICATION & DESCRIPTION			
2. DESCRIPTION OF ITEM (Equipment, Material, Component, Procedure): <u>SMALL BOPE FIBRE SUPPORTS</u>				3. PACKAGE NO. <u>CSG 2-107-2-03</u>			
4. SYSTEM (if known): <u>SMALL BOPE FIBRE SUPPORTS</u>				5. CHECKLIST/ITEM NO. <u>CSG 2-107-2-03</u>			
6. UNIT 1 <input checked="" type="checkbox"/>		UNIT 2 <input type="checkbox"/>		COMPION 0 <input type="checkbox"/>		7. SUPPORT SERVICE R NO. <u>CSG 2-107-2-03</u>	
8. ELEMENT				9. OBSERVED DURING:			
<input checked="" type="checkbox"/> CSR <input type="checkbox"/> RPSR <input type="checkbox"/> RSCAP				<input checked="" type="checkbox"/> Reinspection <input type="checkbox"/> Documenta- tion Review			
				<input type="checkbox"/> Procedure Revi <input type="checkbox"/> Implementation <input type="checkbox"/> Review <input type="checkbox"/> Other			

10. DESCRIPTION OF OBSERVATION:

1/2" DIMENSION IN FIELD IS 1/4". DESIGN REQUIRES 1 3/4" ± 1/8". 1/2" OUT OF TOL



DETAIL - A DRILLS = M-151220MG A

11. PREPARED BY:
[Signature] 1/25
Signature Det

PART 2 **OBSERVATION CLARITY, COMPLETENESS, AND ACCURACY REVIEW**

12. COMMENTS/CLARIFICATION: NONE

13. SUITABLE FOR FURTHER PROCESSING: YES NO

14. REVIEWED BY:
[Signature] 1-25
Signature Det

BCAP OBSERVATION RECORD
Page 1 of 3

1. OBSERVATION NO. CSE I M-6-2

PART 1		OBSERVATION IDENTIFICATION & DESCRIPTION	
2. DESCRIPTION OF ITEM (Equipment, Material, Component, Procedure): <u>SMALL BASE PIPE SUPPORTS DUG # M-15114023X R/S.</u>		3. PACKAGE NO. <u>CSE I-M-6-037</u>	
4. SYSTEM (if known): <u>SI</u>		5. CHECKLIST/ITEM: <u>CSE I-M-6-037</u>	
6. UNIT 1 <input checked="" type="checkbox"/>	UNIT 2 <input type="checkbox"/>	COMMON 0 <input type="checkbox"/>	
8. ELEMENT		9. OBSERVED DURING:	
<input checked="" type="checkbox"/> CSR	<input type="checkbox"/> RPSR	<input type="checkbox"/> RSCAP	
		<input checked="" type="checkbox"/> Reinspection	<input type="checkbox"/> Procedure Re Implementation
		<input type="checkbox"/> Documentation Review	<input type="checkbox"/> Review Other

10. DESCRIPTION OF OBSERVATION:

END ATTACHMENTS IN FIELD DIMENSIONS ARE 1/2" X 5" X 3 1/16" (BASE). REQUIRED DIMENSIONS ARE 2" X 2" X 5/8"

11. PREPARED BY:

[Signature]
Signature

PART 2 OBSERVATION CLARITY, COMPLETENESS, AND ACCURACY REVIEW

12. COMMENTS/CLARIFICATION: NONE

13. SUITABLE FOR FURTHER PROCESSING:

YES
NO

14. REVIEWED BY:

[Signature]
Signature

BCAP OBSERVATION RECORD

Page 1 of 3

1. OBSERVATION NO. 058-2-M-6-0-2

PART 1 OBSERVATION IDENTIFICATION & DESCRIPTION

2. DESCRIPTION OF ITEM (Equipment, Material, Component, Procedure): SMO. LIFE RAPE SUPPLYS 3. PACKAGE NO. 058-2-M-6-0-2

4. SYSTEM (if known): DUCE = 05-11-07-01-X T E 5. CHECKLIST/ITEM NO. 058-2-M-6-0-2

6. UNIT 1 UNIT 2 COMMON 0 7. SUPPORT SERVICE RI NO. 1015

8. ELEMENT CSR RPSR RSCAP 9. OBSERVED DURING: Reinspection Documentation Review Procedure Review Implementation Review Other

10. DESCRIPTION OF OBSERVATION: COMPLETELY MISSING 12.5' DETAIL DETAIL SPECIFIED IN CLEARANCE OF NAVIG. - ACTUAL IS POINT ON THE NORTH SIDE AND 500' SOUTH SIDE.

11. PREPARED BY: [Signature] Date: [Date]

PART 2 OBSERVATION CLARITY, COMPLETENESS, AND ACCURACY REVIEW

12. COMMENTS/CLARIFICATION: NONE

13. SUITABLE FOR FURTHER PROCESSING: YES NO

14. REVIEWED BY: [Signature] 1-25- Date

**PIPE SUPPORT REVERIFICATION PLAN
ANALYSIS OF NEW OBSERVATIONS**

ATTRIBUTE, INSTRUCTION	DESCRIPTION OF NEW OBSERVATION	COMMENT
<p>Configuration - Verify that all items of the installed support are the same as those indicated on the bill of materials.</p>	<p>B.O.M. specified a WOX15.5. W6X16 installed.</p> <p>Stiffener clamps installed where B.O.M. indicated use of standard clamps. (Two instances.)</p> <p>Incorrect parts installed in vendor supplied pre-engineered support assemblies. (Three instances.)</p>	<p>While the instruction attachments do not describe the W6x15.5, the inspectors have been provided with copies of the dimensions for detailing for the commonly used structural shapes from both the seventh and eighth editions of the AISC Manual. This is a site fabricated piece, and there are significant differences between the W6X15.5 and W6X16. The difference in flange width is readily apparent. Level III Mechanical Inspector recommends that this item be treated as attributable to inspector technique.</p> <p>While it was not the intent of the CSR Engineer that vendor fabrication dimensions be reverified. The difference between a standard clamp and a stiffener clamp is readily apparent. Level III Mechanical Inspector recommends that these items be treated as attributable to inspector technique.</p> <p>Two clamps and one rear bracket. Detailed verification of vendor fabrication dimensions is not normally associated with installation inspections. The bill of materials specifies items by size and vendor part number. Only those dimensions necessary to erect the assembly are normally given on the B.O.M. and the drawing. The vendor drawings are provided to the inspectors only to enable them to verify that the correct assembly was installed, by part number and size. It was not intended that stock sizes of subassemblies be reverified. Level III Mechanical Inspector recommends that these items not be treated as attributable to inspector technique.</p>

E0000515

PIPE SUPPORT REVERIFICATION PLAN
ANALYSIS OF NEW OBSERVATIONS

ATTRIBUTE, INSTRUCTION	DESCRIPTION OF NEW OBSERVATION	COMMENT
<p>Configuration - Verify that all items of the installed support are the same as those indicated on the bill of materials</p>	<p>Rod couplings installed with two jam nuts where bill of materials calls for one jam nut. (Two instances.)</p>	<p>Hardware is correctly installed. The checklist instructions refer to S&L Drawing M-919 for authorized additions, substitutions and tolerances. M-919 specifies that two jam nuts be used with the rod coupling. The inspectors interpreted the use of the extra nut as an approved tolerance. Level III Mechanical Inspector recommends that these items not be treated as attributable to inspector technique.</p>
	<p>B.O.M. specified rod couplings can not be dimensionally verified to approved vendor catalogs. (Two instances.)</p>	<p>Visual examination of these couplings shows them to apparently be ITT Grinnell Fig. 79. Size is determined by rod diameter, which is correct. Normal installation inspection does not include dimensional verification of vendor fabricated parts. Level III Mechanical Inspector recommends that these items not be treated as attributable to inspector technique.</p>
	<p>B.O.M. specified an ITT Grinnell Fig. H.S. 45 assembly. Locations of welded washer plates on the assembly do not agree with vendor fabrication dimensions.</p>	<p>Visual examination of this assembly shows it to apparently be an ITT Grinnell Fig. H.S. 45. Length and depth of C shapes is correct. Normal installation inspection does not include verification of vendor fabrication dimensions. Level III Mechanical Inspector recommends that this item not be treated as attributable to inspector technique.</p>
<p>B.O.M. specified a 307N snubber. A 306N snubber is installed.</p>	<p>The 306N and 307N snubbers are identical, except that the 307N is fitted with an extension piece. In this case, it would not be possible to install the specified 307N, there is either a detailing error on the drawing or a clerical error on the B.O.M. The difference between a snubber with or without the extension piece, is readily apparent. Level III Mechanical Inspector recommends that this item be treated as attributable to inspector technique.</p>	

E1000516

PIPE SUPPORT REVERIFICATION PLAN
ANALYSIS OF NEW OBSERVATIONS

ATTRIBUTE, INSTRUCTION	DESCRIPTION OF NEW OBSERVATION	COMMENT
<p>Configuration - Verify that all items of the installed support are the same as those indicated on the bill of materials.</p>	<p>B.O.W. specified a W8X17. A W8X21 is installed. Attachment to beam is not located as shown on drawing.</p>	<p>While the instruction attachments do not describe the W8X17, the inspectors have been provided with copies of the dimensions for detailing for the commonly used structural shapes from both the seventh and eighth editions of the AISC manual. The dimension given for locating the attachment to this beam was unworkable with a W8X21, and apparently would not have worked with the specified W8X17. While the differences between the installed and the specified item may not have been readily apparent the attachment discrepancy should have been. Level III Mechanical Inspector recommends that this item be treated as attributable to inspector technique.</p>

E0000517

**PIPE SUPPORT REVERIFICATION PLAN
ANALYSIS OF NEW OBSERVATIONS**

ATTRIBUTE, INSTRUCTION	DESCRIPTION OF NEW OBSERVATION	COMMENT
<p>Component dimensions - Verify the component dimensions to the bill of materials and the support sketch.</p>	<p>B.O.M. specified \angle 4" x 4" x 1/2" x 0'-6". \angle 3 1/2" x 3 1/2" x 3/8" x 0'-6" installed. B.O.M. specified \angle 3" x 3" x 3/8" x 0'-1 3/4". \angle 3" x 3" x 1/4" x 0'-1 3/4" installed.</p> <p>B.O.M. specified a 1/2" x 0'-9" x 0'-9" C.S. 3/4" x 0'-9" x 0'-10" C.S. installed.</p>	<p>Hard dimensions for these \angle shapes were shown on the B.O.M. The inspector identified the discrepancy and failed to transcribe the information from his notes to the inspection documents. Level III Mechanical Inspector recommends that this item be treated as attributable to inspector technique.</p> <p>The increase from 1/2" to 3/4" in thickness of the is acceptable. The increase from 0'-9" to 0'-10" exceeds allowable tolerances by 0'-1/2". This information was available to the inspector. Level III Mechanical Inspector recommends that this item be treated as attributable to inspector technique.</p>
<p>Component dimensions - Verify that the installation tolerances for components comply with CSR checklist instructions.</p>	<p>Drawing specified 1/16" typ. clearance pipe is in hard contact on one side with 5/32" clearance on opposite side.</p>	<p>The hard contact on one side is acceptable. The cumulative clearance on the opposite side exceeds allowable tolerance by 1/32". Small bore piping moves about relatively freely within this type support. It is likely that the original inspector did not have contact on either side, with the excess 1/32" distributed on both sides. Measurements of less than 1/32" taken from both side of a moveable object can easily contribute to minor errors. Level III Mechanical Inspector recommends that this item not be considered attributable to inspector technique.</p>

E0000518

PIPE SUPPORT REVERIFICATION PLAN
ANALYSIS OF NEW OBSERVATIONS

ATTRIBUTE, INSTRUCTION	DESCRIPTION OF NEW OBSERVATION	COMMENT
<p>Component dimensions - Verify that the installation tolerances for components comply with CSR checklist instructions.</p>	<p>"C" dimension on clamp by vendor fabrication dimensions should be 1 7/16". "C" dimension on installed clamp is 1".</p> <p>"A" dimensions from centerline U-Bolt to end of hanger member is 1/16" out of tolerance.</p> <p>Rear Bracket installed out of location tolerance.</p>	<p>"C" dimensions is a vendor fabrication dimension for a spacer between the clamp ears. This is not a dimension which is normally associated with installation inspection. The clamp is part of a higher vendor supplied assembly, and by type visually appears to be correct. Level III Mechanical Inspector recommends that this item not be treated as attributable to inspector technique.</p> <p>This dimension was specified as 1 3/4", with a $\pm 1/2$" tolerance. (Min. dim. 1 5/16".) Installed at 1 1/4". By design, the bolt holes are larger than the U-Bolt. The U-Bolt is not centered in the holes. If it were, the tolerance would be met. Note that the only tightness inspection is "hand tight." It is not unlikely that at the time of the original inspection, there was no discrepancy. Level III Mechanical Inspector recommends that this item not be treated as attributable to inspector technique.</p> <p>This rear bracket is welded in place, out of specified location. Hard dimensions are shown on the drawing, and tolerances are provided as attachments to the instructions. Level III Mechanical Inspector recommends that this item be treated as attributable to inspector technique.</p>

E0000519

**PIPE SUPPORT REVERIFICATION PLAN
ANALYSIS OF NEW OBSERVATIONS**

ATTRIBUTE, INSTRUCTION	DESCRIPTION OF NEW OBSERVATION	COMMENT
<p>Location of Attachment to supplemental steel - where the support attaches to supplementary steel, verify that the location of the attachment does not deviate from that specified on the design drawing.</p>	<p>Location of Attachment of support to supplementary steel out of allowable tolerances. (Two instances.)</p>	<p>This item was not a specific step in the original inspections. The dimension is not normally shown on the drawing. It is secondary to the specified centerline location of the support relative to the pipe. The CSR checklist instructions and S&L drawings specifically state that location is relative to the pipe. Subsequent to the original inspections, clarification was requested and received from CSR engineering. Application of the new, correct interpretation of the instructions resulted in these items becoming observations. Level III Mechanical Inspector recommends that these items not be treated as attributable to inspector technique.</p>

E0000520

REVERIFICATION ATTRIBUTES	ATTRIBUTABLE TO INSPECTOR TECHNIQUE	ATTRIBUTABLE TO FACTORS OTHER THAN TECHNIQUE
<u>ATTRIBUTE #1</u> (CONFIGURATION)	5	7
<u>ATTRIBUTE #2</u> (COMPONENT DIMENSIONS VERIFIED TO SUPPORT DRAWINGS AND BILL OF MATERIAL)	2	0
<u>ATTRIBUTE #3</u> (COMPONENT DIMENSIONS VERIFIED TO INSTALLATION TOLERANCES)	1	3
<u>ATTRIBUTE #4</u> LOCATION OF ATTACHMENTS TO SUPPLEMENTARY STEEL	0	2
TOTAL	8	12

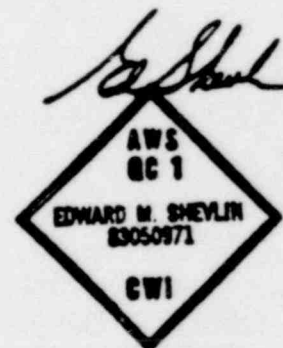
Date: 1-31-85

TO: MENDO CLINTON

FROM: Ed Shevlin

SUBJECT: CSR-I-M-2, CSR-I-M-3, CSR-I-M-6 CHECKLIST INSTRUCTIONS.

1. ON 1-30-85, INDIVIDUAL INSTRUCTION TO EACH INSPECTOR WAS GIVEN RELATIVE TO HANGER DISCREPANCIES FOUND DURING THE REVERIFICATION. WHERE I RECOMMENDED TO YOU THAT A FINDING WAS ATTRIBUTABLE TO INSPECTOR TECHNIQUE, THAT FINDING WAS DISCUSSED IN DETAIL WITH THE RESPONSIBLE INDIVIDUAL. EACH INVOLVED INSPECTOR UNDERSTANDS THE NATURE AND DETAILS OF THE DISCREPANCY, AND THE TECHNIQUE TO BE EMPLOYED TO PREVENT RECURRENCE.
2. ON 1-31-85, A GROUP SESSION WAS PRESENTED BY MYSELF TO PROVIDE FEEDBACK ON THE RESULTS OF THE REVERIFICATION. THE SPECIFIC LETTER AND INTENT OF THE CHECKLIST INSTRUCTIONS WERE DISCUSSED IN DETAIL. TWO CSR ENGINEERS WERE IN ATTENDANCE. ALL QUESTIONS RAISED WERE ANSWERED TO MY SATISFACTION AND THAT OF THE INSPECTORS.
3. I AM CONFIDENT THAT A CLEAR AND UNIFORM UNDERSTANDING OF THE REQUIREMENTS FOR PIPE SUPPORT INSPECTIONS EXISTS, AND THAT WE CAN PROCEED WITH THE INSPECTION OF THE REMAINDER OF THESE POPULATIONS WITHOUT ANTICIPATION OF PROBLEMS.
4. COPIES OF THE GROUP SESSION ATTENDANCE ROSTERS ARE ATTACHED.



E0000523

TRAINING SESSION

Subject: CSR-I-M-2, CSR-I-M-6, CSR-I-M-3 Date: 1-31-85

CHECKLIST INSTRUCTIONS

Duration: 2.0

	PRINT FULL NAME	BADGE NO.	DEPT.	SIGNATURE
1.	Bill Josey	243-62-8661	BCAP	<i>Bill Josey</i>
2.	Tom Young	515-56-8865	BCAP	<i>Tom Young</i>
3.	Gl Saitan	492-63-7519	BCAP	<i>Gl Saitan</i>
4.	Phil S. Jones	523-80-5059	BCAP	<i>Phil S. Jones</i>
5.	Jim Gilman	00442-5840	BCAP	<i>Jim Gilman</i>
6.	SL McGRAN	247-58-2208	BCAP	<i>SL McGRAN</i>
7.	HOWARD M. SIGREST	27269058	BCAP	<i>Howard M. Sigrest</i>
8.	BILL EAMES	005-96-5164	BCAP	<i>Bill Eames</i>
9.	DAVID R. WALKER	250-04-8375	BCAP	<i>David R. Walker</i>
10.	GLENN MCCONAGHY	089-32-1314	BCAP	<i>Glenn McConaghy</i>
11.	John A. Alberghini	001381463	BCAP	<i>John A. Alberghini</i>
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

E0000524

Remarks: SEE ATTACHED MEMO

Instructor's Name: *E. Skene*

Areas of Question or Concern

1. Cat Inspector identified that a 6" angle iron stiffener specified on the drawing and the Bill of Material was not installed. BCAP Inspector had reported this piece inaccessible for verification in the checklist Remarks column, due to its parent in place beam being boxed in. (M-003-032)
2. CAT Inspector identified that the shelf bracket angle irons for the supplementary steel on one support were not the specified size or weight. BCAP Inspector failed to transcribe this observation from his notes to the reinspection documentation. (M-003-008)
3. CAT Inspector identified that a welded attachment to in-place steel on one support was incorrectly located. BCAP Inspector failed to identify this discrepancy. (M-002-054)
4. CAT Inspector was concerned that instructions did not provide for verifying specified location of support attachments to supplementary steel (Generic)

Reverification Plan

1. Checklists to provide for reverification of the characteristics identical to or similar to the areas of concern are to be developed by the BCAP Mechanical Level III Inspector, and approved by the Inspection Supervisor.
2. Inspectors involved in the reverification are to be provided with instructions to assure a complete and uniform understanding of the attribute areas to be reverified. Specific training on the use of the reverification checklist and applicable CSR instructions will be provided.
3. Control measures are to be established to assure that no inspector will be tasked to reverify his/her own work.
4. The inspector performing a reverification is not to be provided with the results of the original inspection. He/she will be furnished with the applicable drawings, instructions and the reverification checklist. The reverification inspector will not be made aware of the identity of the original BCAP inspector.
5. Observations made by the reverification inspectors will be compared with the results of the original inspections by a team of specially designated inspectors. Where an observation is made during reverification which was not made during the original inspection, a Certified Lead Quality Inspector (Mechanical) will reexamine the subject characteristic to determine the validity of the new observation. If valid, the new observation will be processed in accordance with current BCAP procedures. If the new observation is determined by the Certified Lead Quality Inspector to be invalid, the reverification inspector will be shown, to his satisfaction, the reason for the determination of invalidity. The reverification inspector's acknowledgment of invalidity will be documented on the reverification checklist. Contested new observations will be processed in accordance with current BCAP procedures.

E0000528

6. Results of the reverification will be analyzed to determine individual inspector or group deficiencies. In the event that such deficiencies become apparent, appropriate instruction or training will be developed, submitted to BCAP Management for approval, and presented to the inspectors. At the time of decision that additional training is indicated, further support inspections by individuals or by group will be discontinued until such training has been completed.
7. Support inspection attributes outside the scope of the NRC CAT questions and concerns are not addressed by this plan.
8. Documents controlled by BCAP procedures initiated or corrected as a result of this plan will be processed and retained in accordance with the applicable procedures.
9. Checklists, notes or other documents initiated as a result of this plan but not controlled by BCAP procedures will be processed and retained as directed by BCAP Management.

Forms to implement this Plan are attached.

SPECIAL INSTRUCTIONS		ACCEPT	REJECT	OBSERVATION DESCRIPTION & REPORT NO.			
CONTRIBUTOR	VERIFY THAT ALL ITEMS OF THE INSTALLED SUPPORT COMPLY WITH THE BILL OF MATERIALS. VERIFY IN ACCORDANCE WITH INSTRUCTION 3.1, CSR-I-M-6, REV. 1.			E0000530			
COMPONENT DIMENSIONS	VERIFY THE COMPONENT DIMENSIONS TO THE BILL OF MATERIALS AND THE SUPPORT SKETCH. VERIFY IN ACCORDANCE WITH INSTRUCTION 4.1, CSR-I-M-6, REV. 1.						
COMPONENT DIMENSIONS	VERIFY THAT INSTALLATION TOLERANCES FOR COMPONENTS COMPLY WITH INSTRUCTION 4.2, CSR-I-M-6, REV. 1.						
LOCATION OF ATTACHMENT TO SUPPLEMENTARY STEEL.	WHERE THE SUPPORT ATTACHES TO SUPPLEMENTARY STEEL, VERIFY THAT THE LOCATION OF THE ATTACHMENT TO THE SUPPLEMENTARY STEEL DOES NOT DEVIATE FROM THAT SPECIFIED ON THE SUPPORT DRAWING. ALLOWABLE TOLERANCES ARE SHOWN ON CSR-I-M-6, ATTACHMENT 1, PAGE 4A, FIG. 2, AND PAGE 9, PARA. 13.						
INSPECTOR	DATE	CHECKLIST APPROVED	DATE	INSPECTOR	DATE	LEAD INSPECTOR	DATE
<i>E. M. ...</i>	<i>1/18/85</i>	<i>...</i>	<i>1/18/85</i>	<i>...</i>	<i>...</i>	<i>...</i>	<i>...</i>

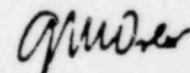
OBSERVATION DESCRIPTION & REPORT NO.	REJECT	ACCEPT	SPECIAL INSTRUCTIONS	SUPPORT NO.
CONFIGURATION			VERIFY THAT ALL ITEMS OF THE INSTALLED SUPPORT ARE THE SAME AS THOSE INDICATED ON THE BILL OF MATERIALS. VERIFY IN ACCORDANCE WITH INSTRUCTION 3.1, CSR-I-M-3, REV. 1.	
COMPONENT DIMENSIONS			VERIFY THE COMPONENT DIMENSIONS TO THE BILL OF MATERIALS AND THE SUPPORT SKETCH. VERIFY IN ACCORDANCE WITH INSTRUCTION 4.1, CSR-I-M-3, REV. 1.	E9000532
COMPONENT DIMENSIONS			VERIFY THAT INSTALLATION TOLERANCES FOR COMPONENTS COMPLY WITH INSTRUCTION 4.2, CSR-I-M-3, REV. 1.	
LOCATION OF ATTACHMENT TO SUPPLEMENTARY STEEL			WHERE THE SUPPORT ATTACHES TO SUPPLEMENTARY STEEL VERIFY THAT THE LOCATION OF THE ATTACHMENT TO THE SUPPLEMENTARY STEEL DOES NOT DEVIATE FROM THAT SPECIFIED ON THE SUPPORT DRAWING. ALLOWABLE TOLERANCES ARE SHOWN ON INSTRUCTION CSR-I-M-3, ATTACHMENT 1, PAGE 4A, PARA. 2, AND PAGE 9, PARA. 13.	

CHECKLIST PREPARED	DATE	CHECKLIST APPROVED	DATE	INSPECTOR	DATE	LEAD INSPECTOR	DATE
E. J. ...	1-18-85	Ma Ch...	1/18/85				

January 31, 1985
BCAP Memo #593

TO: R. L. Byers
FROM: G. M. Orlov
SUBJECT: Observations resulting from Pipe Support Verification Plan

The additional observations generated as a result of the BCAP Pipe Support Reverification Plan have been reviewed. It is apparent from this review that the BCAP inspections should, for future inspections, continue to verify dimensions of vendor supplied "catalog" items that constitute hanger assemblies in the manner in which these verifications were performed during the "Reverification" activities. This action will provide assurance that pipe support components are installed in accordance with the specified design and will address questions identified by the CAT.



G. M. Orlov
BCAP Assistant Director

GMO/jan
cc: N. Kaushal
M. Clinton
BCAP File QG 69.60.3

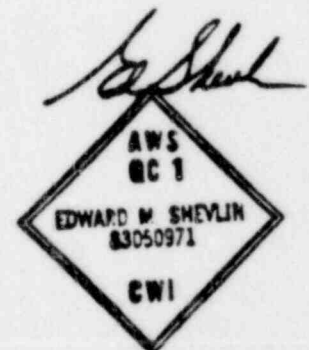
Date: 1-31-85

TO: MENDO CLINTON

FROM: Ed Shevlin

SUBJECT: CSR-I-M-2, CSR-I-M-3, CSR-I-M-6 CHECKLIST INSTRUCTIONS.

1. ON 1-30-85, INDIVIDUAL INSTRUCTION TO EACH INSPECTOR WAS GIVEN RELATIVE TO HANGER DISCREPANCIES FOUND DURING THE REVERIFICATION. WHERE I RECOMMENDED TO YOU THAT A FINDING WAS ATTRIBUTABLE TO INSPECTOR TECHNIQUE, THAT FINDING WAS DISCUSSED IN DETAIL WITH THE RESPONSIBLE INDIVIDUAL. EACH INVOLVED INSPECTOR UNDERSTANDS THE NATURE AND DETAILS OF THE DISCREPANCY AND THE TECHNIQUE TO BE EMPLOYED TO PREVENT RECURRENCE.
2. ON 1-31-85, A GROUP SESSION WAS PRESENTED BY MYSELF TO PROVIDE FEEDBACK ON THE RESULTS OF THE REVERIFICATION. THE SPECIFIC LETTER AND INTENT OF THE CHECKLIST INSTRUCTIONS WERE DISCUSSED IN DETAIL. TWO CSR ENGINEERS WERE IN ATTENDANCE. ALL QUESTIONS RAISED WERE ANSWERED TO MY SATISFACTION AND THAT OF THE INSPECTORS.
3. I AM CONFIDENT THAT A CLEAR AND UNIFORM UNDERSTANDING OF THE REQUIREMENTS FOR PIPE SUPPORT INSPECTIONS EXISTS, AND THAT WE CAN PROCEED WITH THE INSPECTION OF THE REMAINDER OF THESE POPULATIONS WITHOUT ANTICIPATION OF PROBLEMS.
4. COPIES OF THE GROUP SESSION ATTENDANCE ROSTERS ARE ATTACHED.



TRAINING SESSION

Subject: CSR-I-M-2 CSR-I-M-3 CSR-I-M-6 Date: 1-31-85

CHECKLIST INSTRUCTIONS

Duration: 2.0

PRINT FULL NAME	BADGE NO.	DEPT.	SIGNATURE
1. <u>PAMELA J THOMPSON</u>	<u>572-74-838</u>	<u>BCAP</u>	<u>Pamela J Thompson</u>
2. <u>F. STARR</u>	<u>383-56-3594</u>	<u>BCAP</u>	<u>F Starr</u>
3. <u>SL MCGRAW</u>	<u>247-58-2208</u>	<u>BCAP</u>	<u>SL McGraw</u>
4. <u>HOWARD N. SIGREST</u>	<u>587269058</u>	<u>BCAP</u>	<u>Howard N Sigrest</u>
5. <u>BILL EAMES</u>	<u>005-46-5164</u>	<u>BCAP</u>	<u>Bill Eames</u>
6. <u>DAVID R. WALKER</u>	<u>250-04-8375</u>	<u>BCAP</u>	<u>David R. Walker</u>
7. <u>GLENN McCANAGHY</u>	<u>064-32-1314</u>	<u>BCAP</u>	<u>Glenn McCaughy</u>
8. <u>Tom Gilman</u>	<u>004-42-5840</u>	<u>BCAP</u>	<u>Tom Gilman</u>
9. <u>ANDERS Y. NG</u>	<u>130-56-4813</u>	<u>BCAP</u>	<u>Anders Y</u>
0.			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

E0000579

Remarks: SEE ATTACHED MEMO

Instructor's Name: Ed Shurl

1. Checklist to provide for reinspection of the characteristic: identical & similar to the area of concern have been developed by the BCAF Mechanical and the inspector, and approved by the Inspection Supervisor.
[has been]
2. Training [will be] provided to the inspector to ensure a complete and uniform understanding of the characteristic to be re-inspected. The training will include direction to the applicable approved BCAF checklist instructions.
3. Control measures have been established to ensure that no inspector will be tasked to reinspect his/her own work.
4. The inspector performing a reinspection will not be provided with the results of the original inspection. He/she will be provided with the applicable drawings, instructions and the reinspection checklist. The reinspection measure will not compromise the integrity of the original BCAF inspection.
5. Observations made by the reinspection inspector will be compared with the result of the original inspection by a team of specially designated inspectors. When an observation is made during reinspection, and was not originally made during the original inspection, a Certified Lead Quality Inspector (Mechanical) will re-examine the subject characteristic to determine the validity of the new observation. If valid the new observation will be processed in accordance with current BCAF procedures. If the new observation is determined by the Certified Lead Quality Inspector to be invalid, the reinspection inspector will be shown, to his satisfaction, the reason for the determination of invalidity. The reinspection inspector's acknowledgment of invalidity will be documented on the reinspection checklist. Contested new observations will be processed in accordance with current BCAF procedures.

6. Results of the verification will be analyzed to determine individual inspectors or group deficiencies. In the event that such deficiencies become apparent, appropriate training will be developed, submitted to BCAF Management for approval, and presented to the inspectors. At the time of decision that additional training is indicated, further support inspections will be discontinued until such training has been completed.
7. Further verification of support inspections will in any case be unnecessary, as that all questioned characteristics will have been independently verified.
8. Support inspection attributes outside the scope of the NIP. CAP questions and concerns are not addressed by the plan.
9. Documents controlled by BCAF procedures initiated or corrected as a result of this plan will be processed and retained in accordance with the applicable procedures.
10. Checklists, notes or other documents initiated as a result of this plan but not controlled by BCAF procedures will be processed and retained as directed by BCAF Management.

ok-go
McClinton 7/19/85 7:15 AM

E0000718

Area of Concern on 11/2/64

1. CHT Inspector identified that a 26 stiffener specified on the drawing and the RCM was not installed. CHT Inspector had reported this piece inaccessible for verification as the checklist item was column, due to the parent I.P. beam being boxed in.

ACTION: First item "Component" of the Reverification Checklist will verify that all specified components are installed.

2. CHT Inspector identified that the shelf brackets for the supplementary steel on one support were not the specified size or weight. CHT Inspector failed to transcribe this observation from his notes to the inspection documentation.

ACTION: Second item "Component Dimensions" of the Reverification Checklist will verify that all component comply with the dimension specified.

3. CHT Inspector identified that a welded attachment to I.P. steel on one support was incorrectly located. CHT Inspector failed to describe the discrepancy.

ACTION: This item "Component Dimensions" will verify that all support member connections are installed as specified or within tolerance.

4. CHT Inspector was concerned that instructions did not provide for verifying specified location of support attachments to supplementary steel.

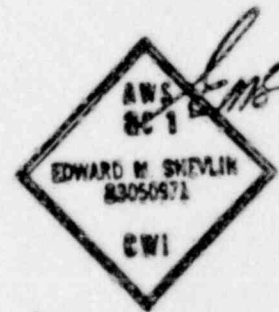
ACTION: Fourth item "Location of Attachment to Supplementary Steel" of the Reverification Checklist will verify that, when specified, all location dimensions for attachment of support's supplementary steel is within tolerance.

(A)

Date: 1-12-84

TO: MENDO CUNTON
FROM: Ed Shevlin
SUBJECT: NRC CAT FINDINGS

- 1. CSR-I-M-04-024: NRC FOUND ONE DIMENSION ACCEPTED BY BCAP INSPECTOR WHICH SHOULD HAVE BEEN REJECTED, AND ONE REJECTED WHICH WAS ACCEPTABLE CONCUR. THE HORIZONTAL DIMENSION WAS INCORRECTLY PRESENTED ON THE DRAWING, IN THAT THE CHAIN DIMENSIONS MADE DOUBLE USE OF THE THICKNESSES OF TWO FLANGES. THE IMPROPER PREPARATION OF THE DRAWING CONTRIBUTED TO THE INSPECTOR ERROR. BOTH THE BCAP AND NRC INSPECTORS WERE IN ERROR IN RESULTS OBTAINED ON THE HORIZONTAL MEASUREMENT. THE VERTICAL DIMENSION WAS INCORRECTLY MEASURED BY THE BCAP INSPECTOR. THE CAUSES OF BOTH INCORRECT MEASUREMENTS HAVE BEEN DETERMINED AND DISCUSSED WITH THE INSPECTOR. 158 DECISIONS, 3 ERRORS (97.8% ACCURACY).
CSR-I-M-04-024-1 REVISED TO INCORPORATE NEW FINDINGS.



 AWS
 BC 1
 EDWARD M. SHEVLIN
 83050971
 CWI

E0000722

(8)

CORRECTED COPY - ITEM 5

Date: 1-11-85

TO: MENZO CLINTON
FROM: Ed Shevlin
SUBJECT: NRC CAT FINDINGS

1. M-15X D602BR. NRC FOUND A WELDED BEAM ATTACHMENT 3/4" OFF DESIGN LOCATION. CONDITION WAS NOT FOUND BY BCAP INSPECTOR. CONCUR. CSR-I-M-2-054-3 INITIATED. 218 DECISIONS, 2 ERRORS (99.1% ACCURACY)
2. M-10504002S. NRC FOUND A Σ 6 X 6 X 1/2 NOT INSTALLED. CONCUR. BCAP INSPECTOR COULD NOT VERIFY THE ITEM DURING INSPECTION. THIS WAS NOTED IN REMARKS COLUMN AT THE TIME OF INSPECTION. A COVER PLATE IS WELDED IN PLACE OVER THE AREA OF THE Σ STIFFENER. THE INSPECTOR DID NOT INITIATE AN OBSERVATION BECAUSE OF THE INACCESSIBILITY. HE NOTED THAT HE COULD NOT VERIFY WHETHER OR NOT THE PIECE WAS INSTALLED. UPON REINSPECTION, IT WAS DETERMINED THAT THE PIECE WAS NOT INSTALLED. CSR-I-M-03-032-2 INITIATED. 134 DECISIONS, 1 ERROR. (99.3% ACCURACY).
3. M-1002002S. NRC AND BCAP INSPECTOR IN AGREEMENT. 97 DECISIONS, 0 ERRORS.
4. M-15107007X. NRC AND BCAP INSPECTOR IN AGREEMENT. 165 DECISIONS, 0 ERRORS.
5. (M-10503029V) NRC IDENTIFIED FOUR Σ BRACES WHICH DID NOT CONFORM TO THE MATERIAL DIMENSIONS SHOWN ON THE B.O.M. CONCUR. BCAP INSPECTOR IDENTIFIED THIS PROBLEM, BUT FAILED TO TRANSCRIBE THE INFORMATION FROM HIS NOTES TO THE INSPECTION DOCUMENTATION. CSR-I-M-03-002 INITIATED. 228 DECISIONS, 6 ERRORS (96.5% ACCURACY).

Ed Shevlin

AWS
MC 1
EDWARD W. SHEVLIN
80050971
CWI

E0000723

EMPLOYEE EVALUATION

NAME PAM J. THOMPSON BADGE # 512-74-8386 LEVEL II

Enter (S) for Satisfactory
or (U) for Unsatisfactory
on applicable line:

EVALUATION DATE: 1-15-85

(1) Knowledge of Procedures,
Specifications, Codes,
and Standards

S

OVERALL RATING (Check one):

SATISFACTORY

(2) Knowledge of duties

S

UNSATISFACTORY

(3) Performance of duties

S

(4) Accuracy of reporting duties

S

LIST SPECIFIC PROBLEMS NONE

REMARKS CONFIGURATION AND COMPONENT DIMENSIONS PCG. NOS. CSR-I-M-06-039,
CSR-I-M-03-057, CSR-I-M-03-033, CSR-I-M-06-044,
OVER INSPECTION STIMULATED BY NRC CAT FINDINGS.

EVALUATOR H. Morris TITLE LEAD QUALITY INSPECTOR

EMPLOYEE SIGNATURE Pamela J. Thompson DATE 1-15-85

EMPLOYEE EVALUATION

NAME PAUL S. JONES

BADGE # 523-80-5059 LEVEL II

Enter (S) for Satisfactory
or (U) for Unsatisfactory
on applicable line:

EVALUATION DATE: 1-15-85

(1) Knowledge of Procedures,
Specifications, Codes,
and Standards

S

OVERALL RATING (Check one):

SATISFACTORY

(2) Knowledge of duties

S

UNSATISFACTORY

(3) Performance of duties

S

(4) Accuracy of reporting duties

S

LIST SPECIFIC PROBLEMS NONE

REMARKS CONTINUATION & COMPONENT DIMENSIONS PKG NO. CSRJ-M-06-040
OVER INSPECTION STIMULATED BY NRC CAT FINDINGS

EVALUATOR Harold Sigrest

TITLE Lead Quality Inspector

EMPLOYEE SIGNATURE Paul S. Jones

DATE 1/15/85

EMPLOYEE EVALUATION

NAME PHIL S. JONES

BADGE # 523-80-5059

LEVEL II

Enter (S) for Satisfactory
or (U) for Unsatisfactory
on applicable line:

EVALUATION DATE: 1-15-85

(1) Knowledge of Procedures,
Specifications, Codes,
and Standards

S

OVERALL RATING (Check one):

SATISFACTORY

(2) Knowledge of duties

S

UNSATISFACTORY

(3) Performance of duties

S

(4) Accuracy of reporting duties

S

LIST SPECIFIC PROBLEMS NONE

REMARKS CONFIGURATION AND COMPONENT DIMENSIONS PKG. NOS. CSR-I-M-06-019,
CSR-I-M-03-004 AND CSR-I-M-06-026. OVER INSPECTION
STIMULATED BY NRC CAP FINDINGS

EVALUATOR H. W. Davis

TITLE LEAD QUALITY INSPECTOR

EMPLOYEE SIGNATURE

Phil Jones

DATE 1/15/85

EMPLOYEE EVALUATION

NAME PAM J. THOMPSON

BADGE # 512-74-8386 LEVEL II

Enter (S) for Satisfactory
or (U) for Unsatisfactory
on applicable line:

EVALUATION DATE: 1-15-85

(1) Knowledge of Procedures,
Specifications, Codes,
and Standards

S

OVERALL RATING (Check one):

SATISFACTORY

(2) Knowledge of duties

S

UNSATISFACTORY

(3) Performance of duties

S

(4) Accuracy of reporting duties

S

LIST SPECIFIC PROBLEMS NONE

REMARKS CONFIGURATION AND COMPONENT DIMENSIONS FIG. Nos. CSR-I-M-06-039,
CSR-I-M-03-057, CSR-I-M-03-033, CSR-I-M-06-044.
OVER INSPECTION STIMULATED BY NRC CAT FINDINGS.

EVALUATOR Howe

TITLE LEAD QUALITY INSPECTOR

EMPLOYEE SIGNATURE Pamela J. Thompson

DATE 1-15-85

EMPLOYEE EVALUATION

NAME PHIL S. JONES

BADGE # 523-80-5059 LEVEL II

Enter (S) for Satisfactory
or (U) for Unsatisfactory
on applicable line:

EVALUATION DATE: 1-15-85

(1) Knowledge of Procedures,
Specifications, Codes,
and Standards S

OVERALL RATING (Check one):

SATISFACTORY

(2) Knowledge of duties S

UNSATISFACTORY

(3) Performance of duties S

(4) Accuracy of reporting duties S

LIST SPECIFIC PROBLEMS NONE

REMARKS CONFIGURATION & COMPONENT DIMENSIONS PKG NO. CSR-I-M-06-040
OVER INSPECTION, STIMULATED BY NRC CAT FINDINGS.

EVALUATOR Harold Sigrest TITLE Lead Quality Inspector

EMPLOYEE SIGNATURE Phil S. Jones DATE 1/15/85

EMPLOYEE EVALUATION

NAME PHIL S. JONES BADGE # 523-80-5059 LEVEL II

Enter (S) for Satisfactory
or (U) for Unsatisfactory
on applicable line:

EVALUATION DATE: 1-15-85

- (1) Knowledge of Procedures, Specifications, Codes, and Standards S
- (2) Knowledge of duties S
- (3) Performance of duties S
- (4) Accuracy of reporting duties S

OVERALL RATING (Check one):

SATISFACTORY

UNSATISFACTORY

LIST SPECIFIC PROBLEMS NONE

REMARKS CONFIGURATION AND COMPONENT DIMENSIONS PKG NOS. CSR-I-M-06-019, CSR-I-M-03-004 AND CSR-I-M-06-028. OVER INSPECTION STIMULATED BY NRC CAP FINDINGS

EVALUATOR H. W. Morris TITLE LEAD QUALITY INSPECTOR

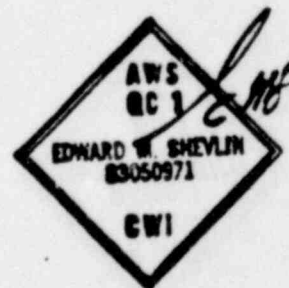
EMPLOYEE SIGNATURE Phil Jones DATE 1/15/85

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Date: 1-11-85

TO: MENZO CLINTON
FROM: Ed Shevlin
SUBJECT: MECH / WELD INSPECTION GROUP MEETING

1. NRC OVERINSPECTIONS FOR DECEMBER: NO QUESTIONS OR CONCERNS.
2. NRC CAT FINDINGS: THE DIFFERENCES BETWEEN BSCAP AND CAT INSPECTION RESULTS WERE DISCUSSED.
3. SOME SMALL BORE PIPING AND INSTRUMENT TUBING POPULATIONS WILL BE COMBINED.
4. DO NOT RUSH INSPECTIONS. WORK EFFICIENTLY, BUT BE SURE TO TAKE ENOUGH TIME TO DO EACH INSPECTION COMPLETELY AND CORRECTLY.
5. DOUBLE CHECK TO ASSURE THAT ALL INFORMATION IS CORRECTLY AND COMPLETELY TRANSCRIBED FROM NOTES TO QUALITY DOCUMENTS.
6. CHECK HANGER ATTACHMENT TO BEAMS, COLUMNS AND PLATES FOR SPECIFIED LOCATIONS CLOSELY. THE CAT INSPECTORS ARE FINDING MANY TO BE IMPROPERLY LOCATED. (NON-BSCAP INSPECTED).
7. DISCUSSED USE OF LARGE BORE FITTING TAKE-OUT DIMENSIONS WHEN MEASURING PIPING.
8. IF ADEQUATE BENCH MARKS ARE NOT AVAILABLE, PUT IN A SERVICE'S REQUEST FOR FIELD ENGINEER SUPPORT.
9. DISCUSSED CERTIFICATION PLAN FOR NEW INSPECTORS. ASSIGNED INDIVIDUALS TO ASSIST WITH TRAINING.



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