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ACCESSION NBR:8207280090 DOC.DATE: 82/07/23 NOTARIZED: NO DOCKET #
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50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylva 05000388
AUTH.NAME AUTHOR AFFILIATION
ENOS,R.A. Teledyne Geotech
RECIP.NAME RECIPIENT AFFILIATION
SHOVLIN,R.J. Pennsylvania Power & Light Co.

SUBJECT: Forwards observation as of 820720 re facility independent design review,Project Review Internal Committee meeting to resolve remaining open items,Findings & observations to be issued.

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130 SECOND AVENUE

WALTHAM, MASSACHUSETTS 02254

(617) 890-3350 TWX (710) 324-7580

July 23, 1982
5599-12

Mr. Robert J. Shovlin
Assistant Project Director - Susquehanna
Pennsylvania Power & Light Company
Two North Ninth Street
Allentown, PA 18101

Subject: TES Observations, Independent Design Review,
Susquehanna Steam Electric Station

Dear Mr. Shovlin:

Attached are six copies of this letter with the Observations, as of July 20, 1982, attached. We have also forwarded copies to the following parties in accordance with your instructions.

Mr. A. Schwencer
U. S. Nuclear Regulatory Commission
7920 Norfolk Ave.
Bethesda, MD 20014

Mr. Robert Perch (To Be Opened By Addressee Only)
U. S. Nuclear Regulatory Commission
7920 Norfolk Ave.
Bethesda, MD 20014

Mr. J. B. Violette (4 copies of report)
Bechtel Power Corporation
P. O. Box 3965, 50 Beale St.
San Francisco, CA 94119

The Project Review Internal Committee has reviewed fourteen (14) RRF's /PMR's as of July 20th. Six (6) of these items were classified as Observations, one (1) Closed and the remaining seven (7) items were classified as Findings. The Observations are attached with all applicable RRF's, PMR's and ICR's. The Findings were sent to you with TES letter 5599-11, July 21, 1982. The Project Review Internal Committee is meeting today to resolve the remaining items. The Findings and Observations issued by the P.R.I. Committee will be issued to you early next week.

B001

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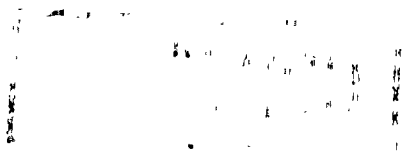
PDR ADOCK 05000387
P PDR



Bechtel has this opportunity to supply TES with another response to the RRF's, PRM's and ICR's if they feel they have the documentation to close the items.

If you have any questions concerning this please contact Mr. Donald Landers, or the undersigned.

Very truly yours,

TELEDYNE ENGINEERING SERVICES

Richard A. Enos
Assistant Project Manager

RAE:alt
attachments
cc: D. F. Landers (TES)
D. Messinger (TES)
W. J. McBrine (TES)
E. A. Solla (TES)
Document Control

TELEDYNE ENGINEERING SERVICES

Enclosure (1)
EP-1-015

Independent Design Review
Susquehanna Steam Electric Station Unit 1

Internal Committee Resolution Form ⚠

ICR No. 5599-3

Reference: RRF No. 5599-50, Rev. 0 and Rev. 1 Date: July 14, 1982

PMR No. 5599-50

Internal Committee Resolution of Potential Finding:

Based on the data supplied by the reviewer and Bechtel, the Internal Committee has determined that this item does not impact the adequacy of design but does have significance relative to the design practice and applicable procedures

TELEDYNE ENGINEERING SERVICES
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TES PROJ. NO. 5599
DATE 7.16.82

Classification of Item after Committee Resolution: Observation.

James A. Slaby
Committee Chairman Signature

D.F. Landers
Project Manager Signature

R.V. Hanson
Committee Member Signature

Prasad Kommineni
Committee Member Signature

TELEDYNE ENGINEERING SERVICES

Enclosure (1)
EP-1-015

Independent Design Review

Susquehanna Steam Electric Station Unit 1

Reviewer Report Form ⚠

RRF No. 5599-60, REV. 1

Reviewer Name: D.F. LANDERS Date: 7/9/82

Classification of Item: POTENTIAL FINDING

Reference Documents: 1. SPEC. 8856-M-175, REV. 5
2. BECHTEL RESPONSE TO RRF 5599-50, DTD 7/6/82, REC'D BY TES 7/8/82
3. RRF NO. 5599-50

Description of Item:

REFERENCE 2 INDICATES THAT "PROJECT PROCEDURES PROVIDE FOR COORDINATION BETWEEN AFFECTED DISCIPLINES IN THE PREPARATION AND CERTIFICATON OF THESE DOCUMENTS AND THE REVISIONS." DOES THE CERTIFIER OF THE DESIGN SPEC. REVIEW AND ACCEPT REVISIONS TO REFERENCED DOCUMENTS? IS THERE EVIDENCE OF HIS ACCEPTANCE (SIGN-OFF)? TES HAS NOT FOUND THIS LEVEL OF DETAIL IN THE PROJECT PROCEDURES TO DATE.

TELEDYNE ENGINEERING SERVICES
CONTROLLED
DOCUMENT
TES PROJ. NO. 5599
DATE 7·16·82

D F Landers
Reviewer Signature

TELEDYNE ENGINEERING SERVICES

Enclosure (1)
EP-1-015

TELEDYNE ENGINEERING SERVICES
CONTROLLED
DOCUMENT
TES PROJ. NO. 5599
DATE Jun 10 1982

Independent Design Review

Susquehanna Steam Electric Station Unit

Reviewer Report Form ⚠

RRF No. 5599-60

Reviewer Name: D.F. LANDERS Date: 6/2/82

Classification of Item: POTENTIAL FINDING

Reference Documents: SPECIFICATION 8856-M-175, REV. 4

Description of Item:

SPEC. REFERS TO 33 OTHER DOCUMENTS WHICH PROVIDE REQUIREMENTS NECESSARY TO SATISFY CODE. THERE IS NO INDICATION THAT CERTIFIER OF DESIGN SPEC. HAS ANY CONTROL OVER THESE OTHER DOCUMENTS AND THEREFORE CANNOT DETERMINE THEIR ACCEPTABILITY WITH RESPECT TO HIS CERTIFICATION. THE DOCUMENTS DO NOT EVEN LIST APPROPRIATE REVISIONS AND/OR DATES. IF CONFLICTS OCCUR BETWEEN SPEC. & REF. DOCUMENTS NO DIRECTION IS GIVEN AS TO WHICH CONTROLS. (EX. ¶ 3.2 LISTS A MIN. SERV. TMP. FOR THE FEEDWATER PIPING - WHAT IS MIN. IN REF. DOCUMENTS?)

D.F. Landers

Reviewer Signature

TELEDYNE ENGINEERING SERVICES

Enclosure (1)
EP-1-015

Independent Design Review

Susquehanna Steam Electric Station Unit 1

Project Manager Resolution Form ⚠

PMR No. 5599-50

Reference RRF No. 5599-50 Date: 6-4-82

Description of Resolution:

Requires a response from Bechtel addressing how revisions to referenced spec's are incorporated into design spec and controlled as to not change the adequacy of the FW design.

TELEDYNE ENGINEERING SERVICES
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TES PROJ. NO. 0598
DATE 6/7/82

Classification of Item after Resolution: Potential Finding

D F Landers
Reviewer Signature

Project Manager Signature

TELEDYNE ENGINEERING SERVICES

Enclosure (1)
EP-1-015

Independent Design Review
Susquehanna Steam Electric Station Unit 1

Internal Committee Resolution Form ⚠

ICR No. 5599-4

Reference: RRF No. 5599-43, Rev. 0, 1, 2
PMR No. 5599-43, Rev. 0, 1, 2

Date: July 14, 1982

Internal Committee Resolution of Potential Finding:

The Internal Committee has reviewed this item. Although the angle is outside the ~~B~~ Tolerance specified By Bechtel it should not result in a change in the results of the analysis. It therefore does not impact the adequacy of the design but has significance relative to the applicable procedure.

Classification of Item after Committee Resolution: Observation

James A. Flaherty
Committee Chairman Signature

D.F. Landers
Project Manager Signature

Committee Member Signature

Prasad R. Kamineni
Committee Member Signature

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TES PROJ. NO. 5599
DATE 7.16.82

TELEDYNE ENGINEERING SERVICES

Enclosure (1)
EP-1-015

Independent Design Review

Susquehanna Steam Electric Station Unit 1

Reviewer Report Form ⚠

RRF No. 5599-43 REV2

Reviewer Name: ERIC SOLA

Date: 7-14-02

Classification of Item: OBSERVATION

TELEDYNE ENGINEERING SERVICES
CONTROLLED
DOCUMENT
TES PROJ. NO. 5599
DATE 7/16/02

Reference Documents:

BECHTEL RESPONSE
RRF 43 & 43 REV1

Description of Item: THE DIFFERENCE BETWEEN THE ANALYSIS & AS-BUILT, 5°, IS ACCEPTABLE. THE DIFFERENCE BETWEEN TES FIELD MEASUREMENT AND ANALYSIS IS 2°. EVEN THOUGH THIS IS ACCEPTABLE IT IS AS OUTSIDE OF THE 3° TOLERENCE STATED IN SPEC 8856-M-13 THEREFORE SHOULD HAVE BEEN INCLUDED IN THE RECONCILIATION CALC WHICH IT WAS NOT.

Reviewer Signature

TELEDYNE
ENGINEERING SERVICES

Independent Design Review

Susquehanna Steam Electric Station Unit 1

Project Manager Resolution Form ⚠

PMR No. 5599-43, REV 2

Reference RRF No. 5599-43, REV. 2

Date: 7/14/82

Description of Resolution:

A REVIEW OF DATA INDICATES THE FOLLOWING:

| TES FIELD DATA | SUPPORT DWG | ANALYSIS 180 | ANALYSIS |
|---|---|---|---|
| 23.99° | 21° | 26° | 26° |

ALLOWABLE TOLERANCE IS 3°, THEREFORE THE SUPPORT DWG IS OUT-OF-TOLERANCE AND REQUIRES MODIFICATION

TELEDYNE ENGINEERING SERVICES
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DOCUMENT
ES PROJ. NO. 5599
DATE 7/14/82

Classification of Item after Resolution: OBSERVATION

Eric Sallee
Reviewer Signature

D. E. Landers

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Independent Design Review

Susquehanna Steam Electric Station Unit 1 TES PROJ. NO. 5599

DATE 6 29 82

Reviewer Report Form ⚠

RRF No. 5599-43 REV 1

Reviewer Name: ERIC SOLLA Date: 6-28-82

Classification of Item: OPEN ITEM

Reference Documents:

TRIP REPORT 1475

Description of Item: NEW FIELD ANGLE 23.99°

OLD FIELD ANGLE 24.1°

ANGLE ON [redacted] STRESS ISO & IN ANALYSIS - 26°

ANGLE ON AS-BUILT DWG - 21°

THE DISCREPANCY BETWEEN THE AS-BUILT AND ANALYSIS IS GREATER THAN THE 3° ALLOWED

Reviewer Signature

TELEDYNE ENGINEERING SERVICES

TELEDYNE ENGINEERING SERVICES
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DOCUMENT

Independent Design Review

Susquehanna Steam Electric Station Unit 1 TES PROJ. NO. 5599

DATE: 6 29 82

Project Manager Resolution Form ⚠

PMR No. 5599-43 Rev. 1

Reference RRF No. 5599-43 Rev. 1 Date: 6-28-82

Description of Resolution:

Requires a response from Bechtel which reconciles the 21° angle on As-built drawing DLA-101-H1 (Rev. 5F1 and Rev. 5F2) and the 26° angle on the stress ISO, FCI-P49-876 Rev. 13, which was used in the analysis.

Classification of Item after Resolution: Potential Finding

Reviewer Signature

R A Ens

TELEDYNE ENGINEERING SERVICES

Enclosure (1)
EP-1-015

Independent Design Review

Susquehanna Steam Electric Station Unit 1

Reviewer Report Form ⚠

RRF No. 5599-43

Reviewer Name: ERIC SOLLA Date: 5-27-82

Classification of Item: OPEN ITEM

Reference Documents: FCI-P49-876 REV 12
MEMO TO: EAS FROM VMC MAY 18, 1982
TRIP REPORT 1445
DWG DLA-101-H1 REV 5 F1
SPECIFICATION 8856-M-213

Description of Item:

SPECIFICATION 8856-M-213 STATES "THE ANGLE BETWEEN THE CENTERLINE OF THE PIPE SUPPORT OR RESTRAINT ASSEMBLY AND THE DESIGN DIRECTION SHALL NOT EXCEED 3 DEGREES AT AMBIENT TEMPERATURE. OR 2 DEGREES AT OPERATING TEMPERATURE

SUPPORT MARK NO. DLA-101-H1
ANGLE MEASURED IN FIELD: 24.1°
ANGLE ON AS-BUILT DWG: 21°
ANGLE ON STRESS ISO: 26°
ANGLE USED IN ANALYSIS: 26°

TELEDYNE ENGINEERING SERVICES
CONTROLLED DOCUMENT
TES PROJ. NO. 5599
DATE 6/1/82

Reviewer Signature

TELEDYNE ENGINEERING SERVICES

Enclosure (1)
EP-1-015

TELEDYNE ENGINEERING SERVICES
CONTROLLED DOCUMENT
TES PROJ. NO. 5599
DATE JUN 2 1982

Independent Design Review

Susquehanna Steam Electric Station Unit 1

Project Manager Resolution Form ⚠

PMR No. 5599-43

Reference RRF No. 5599-43

Date: 6/1/82

Description of Resolution:

BECHTEL AS-BUILT DWG. AND ANALYSIS ARE OUTSIDE ALLOWABLE TOLERANCE. TES FIELD SURVEY DATA AND BECHTEL ANALYSIS ARE WITHIN ALLOWABLE TOLERANCE. IN ORDER TO RESOLVE THIS ITEM REVIEWER IS DIRECTED TO VERIFY TES DIMENSIONS ON FINAL WALKDOWN. IF TES DIMENSION IS CORRECT THEN A NEW RRF MUST BE ISSUED ON BECHTEL AS-BUILT DRAWING. IF BECHTEL FIELD DIMENSION IS CORRECT THEN A RECONCILIATION CALCULATION MUST BE PROVIDED BY BECHTEL.

Classification of Item after Resolution: OPEN

Reviewer Signature

D.F. Landers

Project Manager Signature

TELEDYNE ENGINEERING SERVICES

Enclosure (1)
EP-1-015

Independent Design Review
Susquehanna Steam Electric Station Unit 1

Internal Committee Resolution Form ⚠1

ICR No. 5599-B5gAP

Reference: RRF No. 5599-47 Rev. 2 Date: July 14, 1982

PMR No. 5599-47 Rev. 0, 1, 2

Internal Committee Resolution of Potential Finding:

The internal committee has reviewed this item. Although the angle is outside the Tolerance Specified by Bechtel it should not result in a change in the conclusion of the analysis. It therefore does not impact the adequacy of the design but has significance relative to the applicable procedure.

TELEDYNE ENGINEERING SERVICES
CONTROLLED
DOCUMENT
TES PROJ. NO. 5599
DATE 7/16/82

Classification of Item after Committee Resolution: Observation

James A. Flaherty
Committee Chairman Signature

D. F. Landers
Project Manager Signature

J. W. Hanson
Committee Member Signature

Ronald L. Kornicum
Committee Member Signature

TELEDYNE ENGINEERING SERVICES

Enclosure (1)
EP-1-015

Independent Design Review

Susquehanna Steam Electric Station Unit 1

Reviewer Report Form ⚠

RRF No. 5599-47 Rev 2

Reviewer Name: Eric Solla

Date: 7-14-82

Classification of Item: Observation

TELEDYNE ENGINEERING SERVICES
CONTROLLED
DOCUMENT
TES PROJ. NO. 5599
DATE 7/16/82

Reference Documents:

Becther Response
RRF 47 & 47 Rev 1

Description of Item:

The difference between the angle used in analysis and angle measured by TES in the field is approx 5°. This is outside of the tolerence in spec 8856-M-213, therefore the as-built should be changed to match actual field dim. and the difference should be mentioned in the reconciliation calc

Reviewer Signature

TELEDYNE ENGINEERING SERVICES

Enclosure (1)
EP-1-

Independent Design Review

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Susquehanna Steam Electric Station Unit 1

TES PROJ. NO. 5599
DATE 7/6/82

Project Manager Resolution Form ⚠

PMR No. 5599-47, REV. 2

Reference RRF No. 5599-47, REV. 2

Date: 7/14/82

Description of Resolution:

A REVIEW OF DATA INDICATES THE FOLLOWING:

| TES FIELD DATA | SUPPORT DWG | ANALYSIS ISO | ANALYSIS |
|---|---|---|---|
| 51.72° | 46°-16' | 46° | 46° |

ALTHOUGH ALL OF THE BECHTEL DOCUMENTS ARE ≈ 46°, TES FIELD DATA INDICATES ALL 3 BECHTEL DOCUMENTS ARE OUT OF TOLERANCE. TES FIELD DATA WAS TAKEN TWICE - INITIAL DATA: 50°-50' THEREFORE TES IS SATISFIED OUR FIELD DATA IS APPROPRIATE. BECHTEL DRAWINGS SHOULD BE REVISED AND ANALYSIS RECONCILED.

Classification of Item after Resolution: OBSERVATION

Reviewer Signature

D. F. Landers

Project Manager Signature

Independent Design Review

Susquehanna Steam Electric Station Unit 1

Reviewer Report Form ⚠

RRF No. 5599-47 Rev 1

Reviewer Name: Eric Sousa

Date: 6-25-82

Classification of Item: Open

Reference Documents: Trip Report 1425

Description of Item:

New Field Angle 51.72°

Angle in Analysis = 46°

Angle as Built = 46°-16"

This is not within the 3° tolerance.

TELEDYNE ENGINEERING SERVICES
CONTROLLED
DOCUMENT
TES PROJ. NO. 5599
DATE 6248c

Eric Sousa

Reviewer Signature

TELEDYNE ENGINEERING SERVICES

Enclosure (1)
EP-1-015

TELEDYNE ENGINEERING SERVICES
CONTROLLED DOCUMENT
TES PROJ. NO. 6899
DATE 6-29-82

Independent Design Review

Susquehanna Steam Electric Station Unit 1

Project Manager Resolution Form ⚠

PMR No. 5599-47 Rev 1

Reference RRF No. 5599-47 Rev. 1

Date: 6-25-82

Description of Resolution:

Requires a response from Bechtel which addresses the angle of support DLA-102-H10 in the field as installed. TES has measured it twice, ① 50°-50' and ② 51.72°, both angles are more than 3° from the 46° analyzed and the 46°-16' on the as-built, DLA-102-H10 Rev. 3F1

Classification of Item after Resolution: Potential Finding

E. Sellers

Reviewer Signature

R. A. Enos

TELEDYNE ENGINEERING SERVICES

Enclosure (1)
EP-1-015

Independent Design Review

Susquehanna Steam Electric Station Unit 1

Reviewer Report Form ⚠

RRF No. 5599-47

Reviewer Name: ERIC SOLLA Date: 5-27-82

Classification of Item: OPEN ITEM

Reference Documents: FCI-P49-876 REV 12
MEMO TO: EAS FROM VMC MAY 18, 1982
TRIP REPORT 1445
DWG DLA-102-H10 REV 3F1
SPECIFICATION 8856-M-213

Description of Item:

SPECIFICATION 8856-M-213 STATES "THE ANGLE BETWEEN THE CENTERLINE OF THE PIPE SUPPORT OR RESTRAINT ASSEMBLY AND THE DESIGN DIRECTION SHALL NOT EXCEED 3 DEGREES AT AMBIENT TEMPERATURE OR 2 DEGREES AT OPERATING TEMPERATURE

SUPPORT MARK NO. DLA-102-H10
ANGLE MEASURED IN FIELD: 50°-50'
ANGLE ON AS-BUILT DWG: 46°-16'
ANGLE ON STRESS ISO: 46°
ANGLE USED IN ANALYSIS: 46°

TELEDYNE ENGINEERING SERVICES
CONTROLLED DOCUMENT
TES PROJ. NO. 5599
DATE 6/1/82

Reviewer Signature

Enclosure (1)
EP-1-015

TELEDYNE ENGINEERING SERVICES

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TES PROJ. NO. 5599
DATE JUN 2 1982

Independent Design Review

Susquehanna Steam Electric Station Unit 1

Project Manager Resolution Form ⚠

PMR No. 5599-47

Reference RRF No. 5599-47

Date: 6/1/82

Description of Resolution:

SEE PMR No. 5599-42

Classification of Item after Resolution: OPEN

Reviewer Signature

D.F. Landers

Project Manager Signature

TELEDYNE ENGINEERING SERVICES

Enclosure (1)
EP-1-015

Independent Design Review
Susquehanna Steam Electric Station Unit 1

Internal Committee Resolution Form ⚠1

ICR No. 5599-6

Reference: RRF No. 5599-48, Rev. 0, 1 Date: July 14, 1982

PMR No. 5599-48, Rev. 0, 1

Internal Committee Resolution of Potential Finding: The Internal Committee has reviewed this item. Although the angle is outside the tolerance specified By Bechtel, it should not result in a change in the conclusion of the analysis It Therefore does not impact the adequacy of the design but has significance relative to the applicable procedure.

Classification of Item after Committee Resolution: Observation

James A. Flaherty
Committee Chairman Signature

D. F. Landers
Project Manager Signature

J. W. Hanson
Committee Member Signature

Prasad K. Kommineni
Committee Member Signature

TELEDYNE ENGINEERING SERVICES
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TES PROJ. NO: 5599
DATE 71682

TELEDYNE ENGINEERING SERVICES

Enclosure (1)
EP-1-015

Independent Design Review

Susquehanna Steam Electric Station Unit 1

Reviewer Report Form ⚠

RRF No. 5599-48 Rev 1

Reviewer Name: ERIC SOLLA

Date: 7-14-82

Classification of Item: OBERVATION

Reference Documents:

BECHTEL RESPONSE
RRF 48, RRF 46, RRF 46 Rev 1

Description of Item:

THE DIFFERENCE BETWEEN THE ANGLE ON THE ISOMETRIC AND THE ANGLE USED IN ANALYSIS IS 5° WHICH IS GREATER THEN THE 3° ALLOWED IN SPECIFICATION 8856-M213. SINCE THE AS-BUILT AND TES FIELD DIM AGREE WITH THE ANALYSIS, THE ISO SHOULD BE CHANGED TO SHOW THE CORRECT ANGLE.

TELEDYNE ENGINEERING SERVICES
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TES PROJ. NO. 5599
DATE 71687

E. Solla
Reviewer Signature

TELEDYNE ENGINEERING SERVICES

Enclosure (1)
EP-1-015

Independent Design Review

Susquehanna Steam Electric Station Unit 1

Project Manager Resolution Form ⚠

PMR No. 5599-48, REV. 1

Reference RRF No. 5599-48, REV. 1 Date: 7/14/82

Description of Resolution:

THE TES FIELD DIMENSION, BECHTEL AS-BUILT SUPPORT DRAWING (DLA-102-H9, REV 3F2) AND THE ANALYSIS ARE ALL WITHIN 3° TOLERANCE, THE ANALYSIS IS ACCEPTABLE. HOWEVER, ISOMETRIC FC1-P49-876 SHOULD BE REVISED SINCE IT IS 5° DIFFERENT THAN SUPPORT AS-BUILT DRAWING AND ANALYSIS AND IS THEREFORE OUTSIDE PROCEDURE TOLERANCE.

Classification of Item after Resolution: OBSERVATION

TELEDYNE ENGINEERING SERVICES
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TES PROJ. NO. 5599
DATE 7/6/82

Reviewer Signature

D.F. Landers

Enclosure (1)
EP-1-015

TELEDYNE ENGINEERING SERVICES

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DOCUMENT
TES PROJ. NO. 6599
DATE JUN 2 1982

Independent Design Review

Susquehanna Steam Electric Station Unit 1

Reviewer Report Form ⚠1

RRF No. 5599- 48

Reviewer Name: ERIC SOLLA Date: 6-2-82

Classification of Item: OPEN ITEM

Reference Documents: FCI-P49-876 REV 12
DWG DLA-102-H9 REV 3F2
SPECIFICATION 8856-M213

Description of Item:

ANGLE OF SNUBBER ON ISO IS 49°
ANGLE OF SNUBBER ON AS-BUILT IS 44°

ANGLE ON ISO MUST BE REVISED SINCE THIS IS [redacted] MORE THAN THE 3° TOLERANCE WHICH IS ALLOWED AS STATED IN SPEC 8856-M-213

Eric Solla
Reviewer Signature

TELEDYNE ENGINEERING SERVICES

Enclosure (1)
EP-1-015

Independent Design Review

Susquehanna Steam Electric Station Unit 1

Project Manager Resolution Form ⚠1

PMR No. 5599-48

Reference RRF No. 5599-48

Date: 6-7-82

Description of Resolution:

Requires a response from Bechtel to clarify the angle of the snubber on the Iso. Is it 49° or 44° for DCA-102-H9.

TELEDYNE ENGINEERING SERVICES
CONTROLLED
DOCUMENT
TES PROJ. NO. 5599
DATE JUN 10 1982

Classification of Item after Resolution: Open Item

Reviewer Signature

Project Manager Signature

TELEDYNE ENGINEERING SERVICES

Enclosure (1)
EP-1-015

Independent Design Review
Susquehanna Steam Electric Station Unit 1

Internal Committee Resolution Form ⚠

ICR No. 5599- 8

Reference: RRF No. 5599- 32 Rev. 1 Date: July 15, 1982

PMR No. 5599- 32 Rev. 1

Internal Committee Resolution of Potential Finding:

The ICR agrees with the reviewer. The calculations for the Fabricated Branch shown in calculation package 1503 belong in the stress report. Since this item does not impact ~~design~~ the adequacy of the design but has significance relative to conservatism, design practice and applicable procedures, it should be Classified as an Observation

Classification of Item after Committee Resolution: Observation

James A. Flaherty
Committee Chairman Signature

D.F Landers
Project Manager Signature

J.W Hanson
Committee Member Signature

Prasad R. Kammies
Committee Member Signature

TELEDYNE ENGINEERING SERVICES
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DATE 7/15/82

ENGINEERING SERVICES

Enclosure (1)
EP-1-015

Independent Design Review

Susquehanna Steam Electric Station Unit 1

Reviewer Report Form ⚠

RRF No. 5599-~~SDW~~ 32 SDW REV 1

Reviewer Name: Stanley Wharton Date: 7-13-82

Classification of Item: OBSERVATION

Reference Documents:

SR 8856-1500 RU

Description of Item:

Reinforcement calculation shown in calc package, not in stress report.

1503

TELEDYNE ENGINEERING SERVICES
CONTROLLED
DOCUMENT
TES PROJ. NO. 5599
DATE 7/21/82

Stanley P. Wharton

Reviewer Signature

TELEDYNE
ENGINEERING SERVICES

Independent Design Review

Susquehanna Steam Electric Station Unit 1

Project Manager Resolution Form ⚠

PMR No. 5599-32 REV. 1

Reference RRF No. 5599-32 REV. 1

Date: 7/14/82

Description of Resolution:

PROJ. MGR. AGREES. THIS ITEM IS ALSO ADDRESSED AS ITEM B. OF REF NO. 5599-20.

TELEDYNE ENGINEERING SERVICES
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DOCUMENT
TES PROJ. NO. 5599
DATE 7.21.82

Classification of Item after Resolution: OBSERVATION

Reviewer Signature

D.F. Landers

TELEDYNE ENGINEERING SERVICES

Enclosure (1)
EP-1-015

Independent Design Review

Susquehanna Steam Electric Station Unit 1

Reviewer Report Form ⚠

RRF No. 5599-32

Reviewer Name: Stanley Wharton Date: 5-24-82

Classification of Item: OPEN

Reference Documents:

SR 8856-1500 R1

TELEDYNE ENGINEERING SERVICES
CONTROLLED
DOCUMENT
TES PROJ. NO. 6599
DATE 6.1.82

Description of Item:

PAGE 25 states no Fabricated branch connections but the the 1" connections could be considered as such. TES need details of these connections. TES cannot determine if these are or are not Fabricated branchs unless we have the details

Stanley C. Wharton
Reviewer Signature

Enclosure (1)
EP-1-015

TELEDYNE ENGINEERING SERVICES

TELEDYNE ENGINEERING SERVICES
CONTROLLED
DOCUMENT
TES PROJ. NO. 5599
DATE JUN 2 1982

Independent Design Review

Susquehanna Steam Electric Station Unit 1

Project Manager Resolution Form ⚠

PMR No. 5599- 32

Reference RRF No. 5599- 32

Date: 6/2/82

Description of Resolution:

BECHTEL TO PROVIDE RESOLUTION OF THIS ITEM. THIS STATEMENT ON P. 25 OF STRESS REPORT IS IN CONFLICT WITH ANALYSIS SINCE 1" BRANCH CONNECTIONS ARE INCLUDED IN ANALYSIS. (SEE RRF NO. 5599-20 FOR COMMENTS ON 1" BRANCH CONN. ANALYSIS)

Classification of Item after Resolution: OPEN

Reviewer Signature

D F. Landers

Project Manager Signature

TELEDYNE ENGINEERING SERVICES

Enclosure (1)
EP-1-015

Independent Design Review
Susquehanna Steam Electric Station Unit 1

Internal Committee Resolution Form ⚠

ICR No. 5599-10

Reference: RRF No. 5599-33, Rev. 1

Date: July 15, 1982

PMR No. 5599-33, Rev. 1

Internal Committee Resolution of Potential Finding:

The Internal Committee agrees with the reviewer. The Code allows the use of various Editions and Addenda to be used in the Design, if all applicable provisions are met. However, this should be detailed and called out in the Design Specification; Therefore, Specification 8856-M-419 must be referenced in the Design Spec.

This item does not impact the adequacy of the design but has significance relative to the design process and practice.

Classification of Item after Committee Resolution: Observation

James A. Flaherty
Committee Chairman Signature

DF Landers
Project Manager Signature

Committee Member Signature

Prasad L. Kommineni

TELEDYNE ENGINEERING SERVICES
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DOCUMENT
TES PROJ. NO. 5599
DATE 7/22/82

TELEDYNE ENGINEERING SERVICES

Enclosure (1)
EP-1-015

Independent Design Review

Susquehanna Steam Electric Station Unit 1

Reviewer Report Form ⚠

RRF No. 5599-33 Rev.1

Reviewer Name: Stanley Wharton Date: 7-13-82

Classification of Item: [redacted] Observation

Reference Documents:
SR 8856-1600 R.1
Spec 8856-M-419

Description of Item:

Spec 8856-M-149 included in response lists exclusion of 1" lines. This spec, 8856-M-419, must be referenced in the design spec 8856-M-

TELEDYNE ENGINEERING SERVICES
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DOCUMENT
TES PROJ. NO. 5599
DATE 7/21/82

Stanley D. Wharton
Reviewer Signature

TELEDYNE ENGINEERING SERVICES

Enclosure (1)
EP-1-015

Independent Design Review

Susquehanna Steam Electric Station Unit 1

Project Manager Resolution Form ⚠

PMR No. 5599-33, REV. 1

Reference RRF No. 5599-33, REV. 1 Date: 7/14/82

Description of Resolution:

AGREE W/ REVIEWER. ALSO THE USE OF VARIOUS EDITIONS AND ADDENDA OF THE CODE FOR A GIVEN PIPING SYSTEM CAN BE A PROBLEM UNLESS ALL ASSOCIATED REVISIONS OF THE APPLICABLE ADDENDA ARE REVIEWED FOR THEIR EFFECT.

FOR EXAMPLE, 3 DIFFERENT EDITIONS AND 6 DIFFERENT ADDENDA ARE USED IN THE STRESS REPORT FOR CLASS 1 FEED WATER PIPING. ADDITIONALLY, ONLY CERTAIN PARAGRAPHS ARE USED IN EACH CASE.

Classification of Item after Resolution: OBSERVATION

TELEDYNE ENGINEERING SERVICES
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DOCUMENT
TES PROJ. NO. 5509
DATE 7/21/82

Reviewer Signature

D F Landers
Project Manager Signature

TELEDYNE ENGINEERING SERVICES

Enclosure (1)
EP-1-015

Independent Design Review

Susquehanna Steam Electric Station Unit 1

Reviewer Report Form ⚠

RRF No. 5599-33

Reviewer Name: Stanley Wharton Date: 5-24-82

Classification of Item: OPEN

Reference Documents:

SR8856-1500 R1

Description of Item:

1" lines not analyzed. Analysis required unless exclusion is specified. Where is exclusion listed if at all.

TELEDYNE ENGINEERING SERVICES
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DOCUMENT
TES PROJ. NO. 5599
DATE 6.1.82

Reviewer Signature

Enclosure (1)
EP-1-015

TELEDYNE ENGINEERING SERVICES
TELEDYNE ENGINEERING SERVICES
CONTROLLED
DOCUMENT

TES PROJ. NO. 5599
DATE JUN 2 1982

Independent Design Review

Susquehanna Steam Electric Station Unit 1

Project Manager Resolution Form ⚠

PMR No. 5599-33

Reference RRF No. 5599-33

Date:

Description of Resolution:

BECHTEL MUST PROVIDE JUSTIFICATION FOR NOT PERFORMING ANALYSIS OF 1" PIPING. CODE OF RECORD (SC III, 1971 THRU W1972 ADDENDA) DOES NOT PROVIDE EXEMPTION FOR 1" PIPING.

Classification of Item after Resolution: OPEN

Reviewer Signature

Project Manager Signature