

DmB

PRINCIPAL STAFF	
RA	✓ Des
D/RA	DE
A/RA	DRMSF
RC	DRMA
PAO	SCS
SGA	ML
ENF	File

✓ orig 3

DOCUMENTATION TRANSMITTAL

To: Stone & Webster - CIO
PO Box 1963
Midland, MI 48640

Transmittal No: CIO-0042
Date: May 12, 1984

Attention: Neal Wetherall

The documentation listed below ___ is provided herewith, X was previously provided on 5-8-84 ; as requested by Neal Wetherall .

Documentation Description: Nonconformance Reports - C-00772 & 4924

CIO ___ has X has not been placed on routine transmittal for the described documentation.

Jeannine Kinne
Signature

8406050382 840512
PDR ADOCK 05000329 PDR
S

- CC xJCook, NRC Site (w/a, unless voluminous)
- JJHarrison, NRC Region III (w/a, unless voluminous)
- DDJohnson, SMO (w/o)
- JGKepler, NRC Region III (w/a, unless voluminous)
- BHPeck, SMO (w/o)
- NIRichel, SMO (w/o)
- RAWells, MPQAD (w/o)
- CMThompson - File 24.2 (w/a, unless voluminous)

MAY 30 1984
JEol
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MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

RECORD COPY

NONCONFORMANCE REPORT

16 NCR NO.	C-00772	
17 DATE ISSUED	10/17/83	18 REV 0
19	PAGE 1 OF 5 ^{#5} 10/17/83 302/44/83	

1 ITEM LOCATION
STANDISH FAB SHOP

2 ITEM DRAWING/PART NO. 0-1018-1-30 Rev. 1 3 ITEM PART NAME SWAY STRUT PIPE CLAMP 4 ITEM SERIAL NO. N/A

5 ITEM DESCRIPTION
SWAY STRUT PIPE CLAMP
(LACK OF INSPECTION CRITERIA)

6 ITEM STARTUP SYSTEM NO. ODEC 7 REFERENCE DOCUMENT SPEC M 326 Rev 11 PARA 5.1.1 8 ASME A.S.T. REQUIRED
 YES NO

9 INSPECTION RECORD NO. P220-07618-1-30a LOG NO. 213826 REV NO. 0 10 RESPONSIBLE ORGANIZATION PROJECT ENG / ITT GRINNELL

11 NONCONFORMANCE DISCOVERED DURING:
 DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST INSPECT TURNOVER POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT
SPEC M-326 Rev 11 PARA 5.1.1 STATES IN PART: TO THE GREATEST EXTENT POSSIBLE, PIPE SUPPORTS SHALL BE FABRICATED AND INSTALLED IN STRICT COMPLIANCE WITH PIPE SUPPORT DESIGN SKETCHES/DWG.

13 NONCONFORMANCE
CONTRARY TO THE ABOVE, THERE IS NO CRITERIA CONTAINED IN DWG, SPEC OR ITT GRINNELL LCDS TO VERIFY THE OVERALL ORIENTATION AND CONFIGURATION FOR SIZE 5 SWAY STRUT PIPE CLAMP. AT PRESENT THE ITT GRINNELL LCDS SHOWS THE E-TAKE OUT AND G STOCK SIZE BUT DOES NOT SHOW THE PRESENT BOLTING PATTERN FOR THE CLAMP. LEAVING
(SEE PAGE 3 OF 3 FOR DETAIL)

14 NCR ORIGINATED BY (PERSON)
[Signature] 10/17/83
DATE

15 NCR ORIGINATED BY (DISCIPLINE)
Mech

20 NUMBER OF HOLD TAGS (IF APPLIED) 1 21 LOCATION OF HOLD TAGS ON CLAMP

22 POTENTIAL 50.55(e) YES NO 24 ACTION ITEM NO. SO3130 25 ITEM PRIORITY CODE NO. 5 28 NCR REVIEWED BY: [Signature]

23 REPORTED TO MPQA MANAGER DATE 4/A 25 DISCIPLINE: M. 27 TREND CODE K-9 DATE: 10/17/83

29 CAUSE

INDETERMINATE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

RERWORK SCRAP/REJECT REPAIR USE AS IS
documentation
GW 11-18-83

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION PROJECT ENGINEERING TO OBTAIN FROM I T T GRINNELL THE LOAD CAPACITY DATA SHEET FOR THIS STYLE PIPE CLAMP. (OR) PROJECT ENGINEERING TO RESOLVE, IF NO LOAD CAPACITY DATA SHEET AVAILABLE FROM I T T GRINNELL
Gibson CONT'D PAGE 4

33 DISTRIBUTION FOR ACTION

CCSO

34 DISPOSITION CONCURRENCE

J. J. Clouston 10/14/83
PROJECT FIELD ENGINEER DATE

MPOAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

Chaffin for EBloser 12/9/83
LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

RECEIVED

NOV 22 1983

Midland Project

new/op
LB

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER _____

RECEIVED

OCT 20 1983

L.B.

Midland Project

37 NCR CLOSED BY

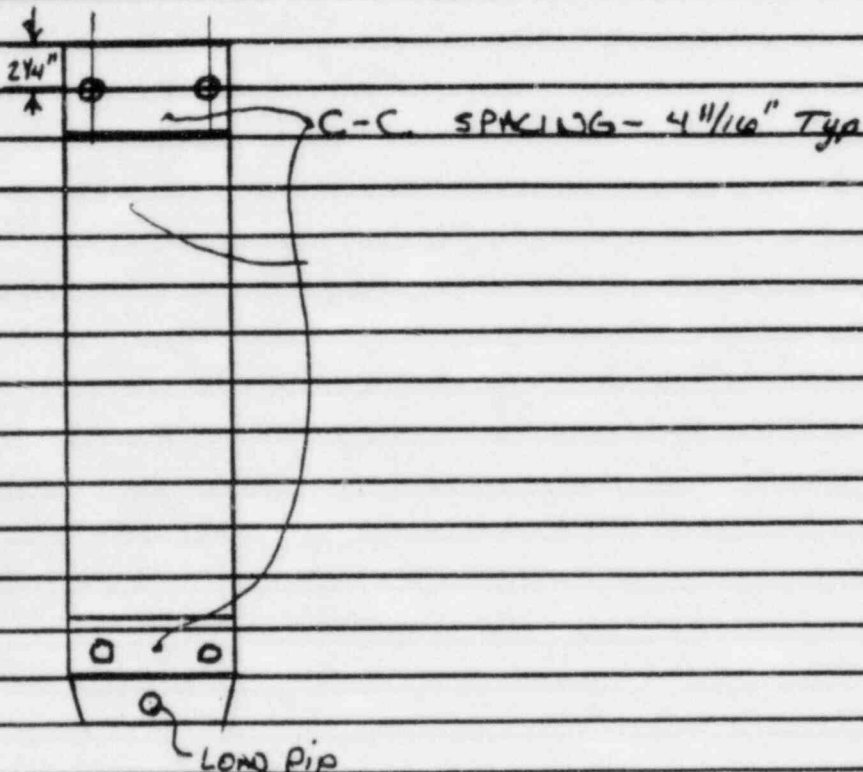
MPOAD DATE

A.N.I. (ASME) DATE

(Block 13 Cont.)

THE ACCEPTABILITY OF THE CLAMP INDETERMINATE.

DETAIL FOR BOLT PATTERN



G-STOCK - 8' x 1 1/4"

E-TACK 23"

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT
CONTINUATION SHEET

NCR NO. C-00772

DATE ISSUED 10/17/83

REV 0

PAGE 4 OF 45 8/3/84

BLOCK 31A CONTINUATION

PROJECT ENGINEERING DISPOSITION - IS USE AS IS PROVIDED
IT CAN BE SHOWN THAT THE PIPE CLAMP IS PART OF AN
ITT GRINNELL FIG. 211, SIZE 5 SWAY STRUT ASSEMBLY SHIPPED
TO THE SITE AS A UNIT. THE INSPECTION PROGRAM AT THE
SITE OF MANUFACTURE WOULD HAVE APPROVED THE ASSEMBLY,
INCLUDING PIPE CLAMP, PRIOR TO ITS SHIPMENT.

IF THE PIPE CLAMP IN QUESTION ON THIS NCR CANNOT
BE SHOWN TO BE ONE THAT WAS PART OF A FIG. 211, SIZE 5,
RIGID SWAY STRUT, THEN PROJECT ENGINEERING DISPOSITION
IS TO REJECT THE ITEM. ITT GRINNELL DOES NOT FURNISH
DETAILED DIMENSIONS OF THE PIPE CLAMPS FURNISHED AS
PART OF SWAY STRUT ASSEMBLIES.

C.H.E. 12/2/83

RWH 12/2/83 L.S. for RT
12/8/83

MIDLAND PROJECT
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NONCONFORMANCE REPORT
CONTINUATION SHEET

NCR NO.

C-00772

DATE ISSUED

10/17/83

REV

0

PAGE 5 OF 5

Block 31A (Cont.)

REVISED DISPOSITION

REJECT - PER PROTECT ENG DISPOSITION DATED 12/8/83, SUBJECT
PIPE CLAMP CANNOT BE VERIFIED AS A PART OF
FIG. 211 SIZE 5 SWAY STRUT. THEREFORE SUBJECT CLAMP
SHALL NOT BE UTILIZED FOR PIPE SUPPORT O-618-1-30.
CLAMP SHALL BE SEgregated UNTIL ITT GRINWAL CAN
FURNISH THE DATA REQUIRED IN BLOCK 13 OF THE NCR
FOR QUALITY VERIFICATION.

3/16/84

JOB NO. 7220 DRAWING NO. 10CN 2235 SHEET 18 OF 18 Q ITEM YES NO TITLE OF DWG HANGER SKETCH

ASME RELATED YES NO PREPARED BY AND DATE GARY KOSCI 9/13/83 CHANGE APPROVED YES NO PFE SIGNATURE AND DATE F. Olson 9/14/83 DISPOSITION OF FCR REQUIRED BY DATE 9/16/83

REASON FOR CHANGE
ITEM 1 - FIG 211 SIZE 4 COULD NOT BE DELIVERED IN TIME FOR CONSTRUCTION

EXISTING CONDITION
FIELD REDLINE WAS ISSUED CHANGING ITEM 1 TO A NPS # 14 SWAY STRUT. THIS REDLINE WAS REJECTED BY PROJECT BECAUSE IT WAS OUT OF SCOPE OF THE REDLINE PROCEDURE. PER CONVERSATION WITH R.E. J. ANCSIN, THIS NPS STRUT IS NOT CAPABLE OF CARRYING THE REQUIRED LOAD.

DESCRIPTION OF CHANGE
CHANGE ITEM 1 TO A FIG 211 SIZE 5 SWAY STRUT WITH 30" PIPE CLAMP WITH W = 2'-1"

REFERENCE COPY WORKPRINT
 VERIFICATION DATE 2.14.84
 RECIPIENT ORGANIZATION 309

RECEIVED
 BECHTEL RESIDENT ENGINEER
CONTROLLED
 Per JMK 2-14-84

SCG: N/A

INTERIM APPROVAL BY SIGN _____ AAO CONTACT: DATE _____
 RESIDENT ENGINEER: DATE _____ NAME _____

OTHER DWGS OR SPECS AFFECTED	CIVIL	ELECTRICAL	INSTRUMENTATION	MECHANICAL	PIPING	WELDING OR OTHERS
	N/A	N/A	N/A	N/A	N/A	N/A
CHECKED BY FIELD LDE	✓	✓	✓	✓	✓	✓
CHECKED BY PE OR SUPV					KN FOR RT	

POAE | MPOAD | POE | APPROVED YES NO PROJECT ENGINEER SIGNATURE AND DATE 9/14/83
Hedzi per M. H. G. / K.

REMARKS
APPROVED WITH COMMENT. CHANGES WILL BE INCORPORATED ALONG WITH INCORPORATION OF 10CN. CALL CHANGE IS NOT READ YND
9-20-83

FCN M9912 D F3 F30 860 834914 Y
 SEP 15 1983



MIDLAND UNITS 1 AND 2

INTERIM DRAWING CHANGE NOTICE

IDCN NO 10752 PAGE 1 OF 1

7/21/83 C.H.E. KLS LWT RT

DATE ORIG CKR GS PE

THIS IDCN COMPLETELY SUPERCEDES IDCN 22360 AND SAR CHANGE NOTICE N/A

JOB NO.	REFERENCE DWG NO.	REV	SHEET
7220	0-618-1-30(Q)	0/P1	1 OF 2 2 OF 2

CHANGE REQUESTED BY:

- CLIENT
- ENGINEERING
- FIELD

- SCOPE CHANGE
- PROJECT EVOLUTION

REF DCP NO. 3267 REV. 1
DCAR/CAR NO. N/A

RWS NO. D-36181-B

S/U SYSTEM DESIGNATOR(S): ODEC

RECEIVED

IS SAR CHANGE REQUIRED? YES NO IF YES, SAR CHANGE NO. AUG 09 1983

THE FOLLOWING REQUISITIONS ARE AFFECTED BY THIS CHANGE: NONE QUALITY CONTROL BECHTEL JOB 7220

THEY HAVE BEEN REVISED IN ACCORDANCE WITH THIS IDCN. HAVE NOT

REASON FOR CHANGE/DESCRIPTION OF CHANGE:

REASON: TO RESOLVE FCR NO. CG 50-159 AND TO INCORPORATE NEW SEISMIC LOADS

DESCRIPTION: 1. CHANGED THE "Z" RIGID STRUT TO ONE OF LARGER CAPACITY. 2. LOCKNUTS FASTENED ON THE "Y" RIGID STRUT.

WORKED
VERIFICATION DATE 2/4/84
RECIPIENT ORGANIZATION 309

ATTACHMENT: SKETCH NO. 0-618-1-30(Q), REV. 1, SH 1 & 2 OF 2

REFERENCE COPY

RECEIVED

JUL 25 1983

FOR FIELD USE WHEN BECHTEL POWER MODIFICATION IS COMPLETE JOB 7220

CORP. POSSIBLE USE WHEN INCORPORATED INTO DRAWING

BEFORE TURNOVER

CONSTRUCTION REPRESENTATIVE DATE

HAS SAR CHANGE NOTICE, IF REQUIRED, BEEN REMOVED FROM SUSPENSE FILE? DRAWING REVISION

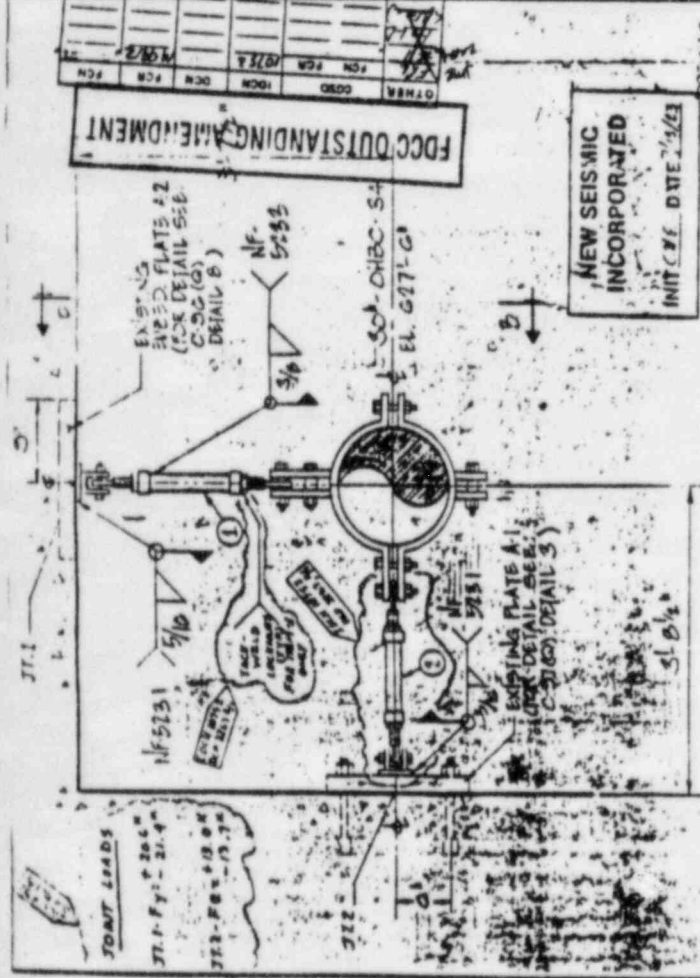
AFTER TURNOVER

CPCO TEST ENGINEER DATE

DATE ORIG GS

CONTROLLED

ITEM NO.	MATERIALS & OPERATIONS	QUANT.	UNIT	REMARKS
1	STEEL PIPE SUPPORT CONSISTING OF: FIG. 211 SIZE #4 5 MAY STREET 50" Ø PIPE W=2 L.F. LOAD 21288#	1	PIECE	
2	FIG. 211 SIZE #2 15 MAY STREET 50" Ø PIPE W=11" LOAD 21288#	1	PIECE	



DESIGN CALCULATION REF	REVISION
C 50-618-1(Q)	0

WORKPRINT
 REPLICATION DATE 2/14/81
 HAZARDOUS WASTE ORGANIZATION
 ALL FIG. NOS ARE ITC GREENE
 TAGS
 MARK NO. 50-CHOC-31-H2(G)
 CRITICAL

FOR MATERIALS AND OPERATIONS SEE SKETCH NO. OF

CONDITIONS: Fx, Fy, Fz, Mx, My, Mz

DESIGN: NORMAL & UPSET, EMERGENCY, FAULTED

THIRD PARTY INSPECTION: YES NO
 CODE CLASS: A ME 11-3

PIPE: M 150-31-20 ELECT.
 STEEL: COM. 2/16 H.V.A.C.

REF DRAWING NUMBERS: N/A
 JOB NO. 7220

CUSTOMER: CONSUMERS POWER CO.
 ORDER OR CONT. NO. FO. # 7220-M103AC
 JOB NAME: V. 21288 1 & 2 HGR. MATL.
 MARK NO. 50-CHOC-31-H2(G)
 SKETCH NO. 0-515-1-30 (G)
 SHEET 1 OF 1 REV. 1

FDCC OUTSTANDING AMENDMENT

NEW SEISMIC INCORPORATED
 INIT. DATE 2/14/81

SECTION A-A

LOCATION PLAN

REVISIONS

REV	DATE	REVISIONS
1		
2		

NOTE: 1. FABRICATE IN ACCORDANCE WITH SPECIFICATION 7270-M-316 (G)

DESIGN CALCULATION REF	REVISION
C 50-618-1(Q)	0

RECEIVED
 JUL 2 1981
 ENGINEERING DEPT.

Corrected Copy

NONCONFORMANCE REPORT

1. PROJECT NAME HIGHLAND		JOB NO. 7220	19. REV. / NO. 4924	20. PAGE 1 OF 3
2. UNIT(S) COMMON	3. DRAWING/PART NO. 0-618-1-30	4. ITEM DESCRIPTION P/F SWAY STRUT HANGER HR 30" - ABC-34-H3	5. ITEM LOCATION SUNNY EL 1276 N 547 W	
6. P.O. OR SPEC NO. AJA	7. SERIAL NO. AJA	8. REPLACEMENT PART PIN A/A	9. SOURCE CONSTRUCTION	10. CONTRACTOR/SUPPLIER A/A
11. INSPECTION CRITERIA <input checked="" type="checkbox"/> DWG <input checked="" type="checkbox"/> SPEC <input type="checkbox"/> OTHER	12. ASME AUTHORIZED INSPECTION REC'D <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14. Discarded During <input type="checkbox"/> Const <input checked="" type="checkbox"/> Test	
15. Equip. Furnished By <input type="checkbox"/> Client <input checked="" type="checkbox"/> Eng				
16. NONCONFORMING CONDITION <p>REQUIREMENTS: 1) POCI - P2.10 PARAGRAPH 3.4 STATES: "VERIFY THAT THE PIPE SUPPORT IS FREE FROM DAMAGE;" 2) POCI - P2.10 PARAGRAPH 3.5.F STATES IN PART: "INSPECT THE COMPLETED WELDS FOR THE WELDERS SYMBOL ON WORK." 3) POCI - P2.10 PARAGRAPH 3.3.B STATES IN PART "HANGER LOAD DEVICES WHICH HAVE INTERNALLY THREADED ADJUSTABLE COMPONENTS ARE TO HAVE SIGHT HOLES PROVIDED TO VERIFY ADEQUATE THREAD ENGAGEMENT" CONTINUED ON PAGE 2</p>				
17. REPORTED BY C.D. Mahony	DATE 3-21-93	18. VALIDATED BY [Signature] 3/21/93		
21. ROUTING: () FIELD ENGINEERING () TO OTHERS (SPECIFY) 3-20-93 [Signature] 3/21/93				
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering				
ITEM 4 OF NCL 4924 STATES BOTH STRUTS ARE CARNEGIE LADA. IN ACCORDANCE WITH FIELD DISPOSITION OF NCR M3534 THAT CORNER LADA SWAY STRUTS ARE TO BE USED FOR NON-Q SUPPORTS ONLY, THEREFORE, HANGER GIP-1-30 WILL BE ENTIRELY REMOVED TO CONFORM TO LATEST REVISION. (O/E), W.T.D. 3/21/93				
23. PROJECT ENGINEERING DISPOSITION				
24. DISPOSITION CONCURRENCE				
strength		reject	repair	use as is
PROJECT FIELD ENGINEER [Signature]		DATE 3/22/93		
PROJECT ENGINEER [Signature]		DATE 3/22/93		
PROJECT CONSTR. ENGINEER		DATE		
AUTHORIZED INSPECTOR				
DATE				
25. DISPOSITION RESULTS				
26. OC ACCEPTANCE				
OC ENGINEER				
DATE				
AUTHORIZED INSPECTOR				
DATE				

5/10 ODEC

NONCONFORMING WORK (CON)
Corrected Copy

Block 16 CONTINUED:

- 4) PROJ-P210-PARAGRAPH 3.1.C STATES IN PART: "COMPONENT SUBSTITUTIONS (SUCH AS SUMP STRUTS AND SPRING CANNISTERS) ARE IDENTIFIED IN THE BILL OF MATERIALS."
- 5) PROJ-P210 PARAGRAPH 3.1.A STATES: "ALL MATERIAL IS IDENTIFIED AS 'Q' MATERIAL."
- 6) M-326 REV 9 APPENDIX N TABLE 1 STATES "FIGURE 211 SIZE 1 STRUTS SPACER WASHER SHALL BE 1" SCH 40 PIPE ± 0.013 INCHES", TABLE 2 FOR NPS SIZE 14 STATES "SPACER WASHER SHALL BE 1" SCH 40 PIPE", TABLE 5A STATES FOR NPS SIZE 14 CLAMPEND; "THERE WILL BE FLEXIBLE BENDING RETAINERS, THIS INSPECTION SHALL BE FOR ENTRANCE AND LOCATION ONLY."
- 7) M-366 REV 4 PARAGRAPH 3.4.1.b STATES IN PART; "CUT LENGTH DIMENSIONS ABOVE 12 INCHES SHALL BE ± 1/8 INCH."
- 8) M-326 REV 9 PARAGRAPH 4.2.1.A.1 STATES: "NO UNDERSIZE WELDS ARE PERMITTED."

CONDITIONS:

- 1) BOTH STRUTS THREADED ROD-ROD ENDS ARE DAMAGED (ALL FOUR RODS)
- 2A) NORTH STRUT WELD OF ITEM #2 REAR END BRACKET TO EXISTING FLATE HAS NO WELDER I.D NUMBER.
- 2B) NORTH STRUT WELD OF THREADED CAP TO EXTENSION ~~ROD~~ ¹⁰³⁻²¹⁻⁸⁵ HAS NO WELDER ID NUMBER.
- 2C) SOUTH STRUT WELD OF ITEM #1 TO EXISTING EMBED HAS NO WELDER ID NUMBER.
- 2D) SOUTH STRUT WELD OF THREADED CAP TO EXTENSION HAS NO WELDER ID NUMBER.
- 3) NORTH AND SOUTH STRUTS HAVE NO TIGHT HOLES ON THE REAR END BRACKET END OF STRUT.
- 4) ~~BRACING STATES ITEM #2 IS A FIGURE 211 SIZE #1 SWAY STRUT, THE INSTALLED STRUT 103-24-85 IS NPS. SEE PAGE 3 103-24-85~~
- 5A) BOLTING MATERIAL FOR THE NORTH STRUTS PIPE CLAMP HAS NO MATERIAL ID.
- 5B) BOLTING MATERIAL FOR THE SOUTH STRUTS PIPE CLAMP HAS NO MATERIAL ID ON THE NUTS ON THE "TOP" STUDS.
- 6A) THE OUTSIDE DIAMETER MEASUREMENT FOR THE FIGURE 211 SIZE 1 SHOULD BE 1.315" ± 0.013".
- 6B) THE MEASUREMENTS IN THE FIELD IS APPROX. 1.625 INCHES.
- 6C) THE OUTSIDE DIAMETER MEASUREMENT FOR THE NPS SIZE 14 SHOULD BE 1.315 INCHES.
- THE MEASUREMENT IN THE FIELD IS APPROX. 1.890 INCHES.

CONTINUED ON PAGE 3

601-2000

Block 16 CONTINUED:

- 6c) THERE ARE NO FLEXIBLE RETAINER BEARINGS INSTALLED.
- 7) DRAWING REQUIRES A "W" DIMENSION OF 11", ACTUAL DIMENSION IS 6 3/4 INCHES.
- 8) ITEM #2 WELD OF THREADED END CAP TO EXTENSION IS UNDERSIZED.

Q- LIST # 4, 183

ONE HOLD TAG APPLIED

CONDITION #4) DRAWING REQUIRES 1 GAINWELL 211 & 1 NPS STRUT; THE INSTALLED STRUTS ARE CORNER AND LADA. JB 3-24-83