

July 21, 1980

Docket No. 50-445/80-15  
50-446/80-15

MEMORANDUM FOR: W. C. Seidle, Chief, RC&ES Branch  
THRU: W. A. Crossman, Chief, Projects Section  
FROM: R. G. Taylor, RRI-CPSES  
SUBJECT: DOWNWARD CLASSIFICATION OF A CRITERION V ITEM OF  
NONCOMPLIANCE - INSPECTION REPORT NO. 50-445/80-15;  
50-446/80-15

I have downward classified, from an infraction to a deficiency, the item of noncompliance in regard to the drawing notes referencing procedures that were not available on site. As explained in the report details, the reference procedures appear to be adequately replaced by the site procedure CPM 6.9 and I can see no technical consequence of the problem.

I probably would not have issued the citation except that once again the site's attitude, in instance of this nature, is to do nothing if not forced to since the notes appear upon literally thousands of drawings. If the notes are not obviated by some means, I probably would have difficulty explaining the thing away to an inside or outside auditing team if not to my own Region IV associates. The item is more of a CYA on my part than a real item having significance.

4 3  
R. G. Taylor  
RRI-CPSES  
Original Signed  
by W. A. Crossman

B607100337 B60630  
PDR FOIA  
GARDE85-59 PDR

OFFICE	CRP	CRP				
SURNAME	R. G. Taylor/nh	W. A. Crossman				
DATE	7/21/80	7/21/80				

COMANCHE PEAK STEAM ELECTRIC STATION  
DESIGN CHANGE AUTHORIZATIONUSED FOR  
# 28  
AQP-23  
CL-5 SUPPMS(WILL) ~~(WILL)~~ BE INCORPORATED  
IN DESIGN DOCUMENTS

AUTHORIZATION NO. 7952

SAFETY RELATED DOCUMENT XX YES NO

ORIGINATOR: CPPE XX ORIGINAL DESIGNER

## 1. DESCRIPTION:

A. APPLICABLE SPEC/ ~~DESIGN DOCUMENT~~ 2323-MS-100 REV. 5

B. DETAILS Quality assurance requirements for Non-Nuclear Safety-Seismic

Category II pipe supports are not presently addressed in the

specification. Therefore, change paragraph 7.1.12 to read as

attached and add Appendix 8.

FOR OFFICE AND  
ENGINEERING USE ONLY

## 2. SUPPORTING DOCUMENTATION

## 3. SIGNATURES: RTW:rh

7/19/80

A. APPROVED BY:

Design Representative

7-22-80

Date

B. APPROVED BY:

Originator

7-21-80

Date

R. T. Wolantejus/F. W. Varnell/D. H. Wade

## 4. STANDARD DISTRIBUTION:

ARMS (Original) (1)  
Quality Engineering (1)  
Original Designer (if CPPE originated) (1)

FOIA-85-59

JOB NO. 35-1195  
RECEIVE  
JUL 22 1980  
RECEIVE

CC-324

Paragraph 7.1.12

DELETE the entire paragraph.

ADD the following:

"Pipe supports for Class 5 piping which are designated Non-Nuclear Safety-Seismic Category II shall be installed in a construction system which provides the controls listed in Appendix 8 to assure quality. As used in this paragraph, "Installation" is an all inclusive term that includes not only installation but also any revisions or replacements of materials to a pipe support supplied by offsite vendors as well as any support totally fabricated at the CPSES site by the contractor".

## APPENDIX 8

### QUALITY PROGRAM REQUIREMENTS

#### FOR

#### NON-NUCLEAR SAFETY RELATED - SEISMIC CATEGORY II SUPPORTS

Pertinent Quality Assurance Requirements of Appendix B to 10 CFR Part 50 as stipulated below, apply to the installation of pipe supports which are designated Non-Nuclear Safety Related-Seismic Category II.

As used in the Appendix, "installation" is an all inclusive term that includes not only installation but also any revisions or replacements of materials to a pipe support supplied by offsite vendors as well as any support totally fabricated at the CPSES site by the contractor.

#### 1. Procurement Document Control

- a. Purchase Order shall state material specification and grade for structural steel items. Hardware items shall specify manufacturer's catalog or part number.
- b. Certificate of Compliance required with shipment for all material except non-load bearing items such as washers, jam nuts, cotter pins, etc.
- c. Material shall **only** be purchased from approved suppliers as delineated on the "Approved-Disapproved Suppliers List".

#### 2. Instructions, Procedures and Drawings

- a. Installation shall be performed only in accordance with issued for construction hanger detail sketches which may be modified by controlled revision documents and with applicable installation instructions.

#### 3. Document Control

- a. Instructions, Procedures and Drawings including changes thereto, shall be processed, issued and controlled in accordance with written procedures and instructions. The control function will be assigned to a specific entity who shall be responsible for the receipt, processing, maintenance, and distribution of approved documents. The responsible entity shall assure that approved documents are at the work locations where they are to be used and that superseded or voided documents are retrieved in a timely manner.

#### 4. Control of Purchased Material, Equipment, and Services

- a. Receipt inspection shall be performed and documented to verify that received materials comply with the requirements of the purchase order.

#### 5. Identification and Control of Materials, Parts, and Components

- a. Measures shall be established to control material, parts or components to preclude inadvertant use of unapproved material, parts or components.

#### 6. Control of Special Processes

- a. All welding shall be performed to written procedures and by personnel which have been qualified to Section IX of the ASME Boiler and Pressure Vessel Code.
- b. Procedures and instructions which provide controls on the filler materials shall be provided. Such controls shall include, as a minimum, identification to heat or lot number.

#### 7. Inspection

- a. An inspection program shall be developed and implemented. The inspection shall be documented and shall be in sufficient detail to verify that the as-installed support conforms to the latest revision of the hanger detail sketch.
- b. If inspection of installation of pipe supports is not possible or disadvantageous, the as-installed support shall be inspected. This inspection shall be documented and shall include:
  1. Nominal dimensional verification of the installed support with the pipe support detail sketch
  2. Base plate location verification
  3. Basenlate Hilti-bolt torquing verification
  4. Visual inspection of welds in accordance with Chapter VI of ANSI B31.1

#### 8. Control of Measuring and Test Equipment

- a. A control program for calibration of tools, gages, instruments, etc., used in inspection shall be establisht and shall address measuring and test equipment control, calibration, and adjustment at specified periods to maintain accuracy within necessary limits. Such activities shall be documented.

9. Handling and Storage

- a. Procedures and instructions shall be provided which control the handling, storage, cleaning, and preservation of pipe supports as required by Specification MS-46B and the requirements of this Appendix.

10. Inspection, Test and Operating Status

- a. Procedures and instructions shall be provided to identify the status of inspections performed on individual pipe supports.

11. Nonconforming Materials, Parts, or Components

- a. Procedures and instructions shall be provided to control pipe supports which do not conform to requirements. Nonconforming pipe supports shall be reviewed and accepted, rejected, repaired, or reworked in accordance with documented procedures.

12. Quality Assurance Records

- a. Sufficient records shall be maintained to furnish evidence of activities affecting quality as defined in this Appendix. Minimum required records are:
  - 1. Support Detail Sketch
  - 2. Receiving Inspection Reports
  - 3. Certification of Compliance for Materials
  - 4. Installation Inspection Records
  - 5. Documentation to identify welding procedure used, type of filler material used, heat or lot number of the filler metal and the welder who performed the weld.

USED FOR  
AGP-23  
JHM 8/3/81

TEXAS UTILITIES SERVICES INC.  
AGENT FOR  
TEXAS UTILITIES GENERATING COMPANY  
ACTING FOR  
DALLAS POWER & LIGHT COMPANY  
TEXAS ELECTRIC SERVICE COMPANY  
TEXAS POWER AND LIGHT COMPANY

COMANCHE PEAK STEAM ELECTRIC STATION  
UNITS 1 AND 2

# THIS SPECIFICATION COVERS NUCLEAR SAFETY RELATED EQUIPMENT

PIPING ERECTION SPECIFICATION  
2323-MS-100

REVISION 2 - July 9, 1976  
REVISION 3 - March 9, 1977  
REVISION 4 - APRIL 30, 1978  
REVISION 5 - February 6, 1979  
REVISION 6 - March 15, 1982



(USI REFERENCE 05100)

THIS DOCUMENT  
AFFECTED BY  
DESIGN CHANGES

THIS SPECIFICATION INCLUDES THE  
INSTALLATION OF NUCLEAR SAFETY  
RELATED PIPING

THIS DOCUMENT  
AFFECTED BY  
DESIGN CHANGES

STATE OF TEXAS  
P.E. *[Signature]* 3/9/82  
DATE

GIBBS & HILL, INC.  
ENGINEERS, DESIGNERS, CONSTRUCTORS  
NEW YORK, NEW YORK



1. The following design changes have been incorporated into the subject specification revision.

Authorizing Document

Pertains To:

DC/DDA 204, Rev. 1	para. 4.11.3
" 1925	" 1.9
" 2459	App. 6
DCA 4184, Rev. 1	para. 7.5 <i>N/A</i>
" 4524, Rev. 1	" 2.13.3
" 4554	pages V and VI
" 4671 - <i>1.11.1</i>	para. 4.11.2
	" 4.11.3
" 4673	para. 2.17.15.1
	" 2.17.15.2
DCA 4699	para. 2.17.6
" 4973, Rev. 1	" 4.9.6
	App. 9
" 4994	para. 2.8.2
	" 2.11.4
" <u>5024</u>	" 7.1.12. <i>QUALITY PER APPB</i>
" 5070, Rev. 2	App. 9
" 5145	para. 4.9.4a.
" 5298 Rev. 1 <i>✓</i>	" 4.1.5
" 5379	" 4.30.3
" 5404, Rev. 1	" 4.36.7.5d.
" 5449, Rev. 2	" 2.8.1



DCA 5551, Rev. 2

para. 2.8.1  
" 4.11.3  
" 4.11.5  
" 4.11.6  
" 4.11.7  
App. 7

✓ " 5745

para. 7.4.2  
" 3.6.6

DCA 5755

para. 2.4.1  
" 4.3.2

" 5807, Rev. 1

" 4.10.3

" 5808

" 4.22.1  
" 4.22.3a

✓ " 5831

" 7.2.3

" 5843

" 2.17.15

" 5935

" 4.26.5

" 5976, Rev. 1

" 2.13.12

" 4.19.5

" 5988

" 4.34.6

" 6029

" 4.32.5

" 6034

" 4.27.4

" 6227

" 4.11.6

" 6273

" 4.38.12

" 6481, Rev. 2

App. 9

" 6493, Rev. 1

para. 4.34.7

✓ " 6544

" 7.2.3

" 6586

" 2.17.15.6

"	6801	"	4.7.7
DCA	6927	para.	7.2.6.2a.
"	7135	"	2.7.1.e
"	7794	"	4.30.1
"	7852	"	4.9.3
✓ "	7952	"	7.1.12 <i>QUAL R. 12 APP E</i>
		App.	8
"	8198	para.	4.26.3
"	8600 <i>R. 1</i>	App.	6
"	8686	App.	9
"	8810	para.	4.21.7
"	8815	"	4.17.1
"	<del>9076</del>	"	<del>7.3</del>
"	9100, Rev. 3	"	4.9.5, 4.9.6
"	9418, Rev. 1 <i>Void</i>	"	4.38.3, 4.38.4
"	9465 <i>R. 1</i>	"	4.3.3
"	9577	"	4.16.1
"	9716	"	2.11.4
"	9969	"	2.14.1
"	10486	"	4.23.3(a)
"	10530, Rev. 1 <i>R. 5</i>	"	1.4.5, 2.3
			2.4.3, 2.10, 2.17.11
			2.19.4, 2.20.7 2.21.8, 3.1.1,

DCA 10530

DCA 10691

DCA 114 2 Rev. 1 R2

DCA 11423 *P1 100d*

DCA 12204 *101*

3.2.1, 3.4,  
4.1.5, 4.2.2,  
4.2.3, 4.3.3,  
4.11.6, 4.12,  
4.18.1, 4.22.3,  
4.24.4, 4.24.7,  
4.26.4, 4.38,  
4.39, 5.3, 5.8,  
5.9, 7.1.5,

7.1.6, 7.2

App. 8. *QUALITY*

Appendix 6

para. 7.28

para. 4.38.4h

para. 4.27.7

2. The following DCA's written against 2323-MS-100, have not been incorporated:

Authorizing Document

DCA - 9087, Rev. 1 *102*

DCA - 11193

DCA - 10901, Rev. 1

DCA - 11645. Rev. 3

Pertains To:

para. 7.1

para. 7.1.1

para. 4.38.4

para. 7.29

3. The following DCA's, written against 2323-MS-100, (specified "not to be Incorporated") will not be incorporated in the design documents.

Authorizing Document

DCA 3180, Rev. 1	DCA 8689	DCA 9433	DCA 9951
" 4208	" 8873, Rev. 1	" 9547	" 9967
" 4768	" 8896, Rev. 1	" 9555	" 9968
	" 8972	" 9564	" 9977, Rev. 1
" 6104	" 9090, Rev. 1 <i>4208</i>	" 9598, Rev. 1	" 9978
" 6142	" 9117, Rev. 1	" 9609	" 9979
" 6179	" 9119	" 9644	" 9990, Rev. 1
" 6363	" 9138 <i>Rev. 1</i>	" 9652	" 9992
" 6365	" 9152	" 9653	" 10007 Rev. 1
" 6731, Rev. 1	" 9180	" 9654	" 10009
" 7496, Rev. 2	" 9213	" 9719	" 10010
" 7614	" 9331	" 9720	" 10011
" 7791	" 9345		" 10018 <i>Rev. 1</i>
" 8130	" 9369	" 9731	" 10019
" 8185	" 9370	" 9739	" 10021
" 8186, Rev. 1	" <del>9369</del>	" 9773	" 10064
" 8190	" <del>9370</del>	" 9774	" 10065
" 8192	" 9375	" 9800	" 10066
" 8254	" 9376	" 9911	" 10067
" 8297	" 9408	" 9916	" 10068
" 8345		" 9945	
" 8432			
" 8508			

Authorizing Document

DCA 10069	DCA 10658 <sup>P2</sup> Rev. 1	DCA 10996
" 10070	" 10665	" 11003
" 10083	" 10669	" 11004 Rev. 1
" 10084	" 10682	" 11018
" 10093	" 10685 Rev. 1	" 11025
" 10098	" 10701 <sup>R1</sup>	" 11034
" 10105	" 10772	" 11035
" 10106	" 10796	" 11036
" 10113	" 10807	" 11041
" 10116	" 10901 Rev. 1	" 11060
" 10121	" 10945	" 11062
" 10124	" 10949	" 11071
" 10129	" 10950	" 11591
" 10154	" 10961	" 11592
" 10171	" 10985	
" 10184	" 10986 Rev. 1	
" 10189	" 10989	
" 10193	" 10990	
" 10440	" 10991	

4. The following DCA's written against 2323-MS-100 (specified "to be incorporated") will not be incorporated in the design document.

DCA-8289  
DCA-8582, Rev. 1  
DCA-8508

5. Contents of the following letters have been incorporated as applicable.

- a. CPPA-8705 dated February 25, 1981
- b. CPPA-8807 dated March 3, 1981
- c. CPPA-10280 dated May 28, 1981
- d. CPPA-11193 dated July 8, 1981
- e. CPPA-12,825 dated September 28, 1981

SPEC, HAH, TUGCO

COMANCHE PEAK STEAM ELECTRIC STATION  
DESIGN CHANGE AUTHORIZATIONUSED FOR  
#28 AQP-23  
CL-50PPN13.(WILL) ~~(WILL NOT)~~ BE INCORPORATED  
IN DESIGN DOCUMENTS

AUTHORIZATION NO. 7955

SAFETY RELATED DOCUMENT YES XX NOORIGINATOR: CPPE XX ORIGINAL DESIGNER

## 1. DESCRIPTION:

- A. APPLICABLE SPEC/~~DESIGN DOCUMENT~~ 323 MS-46 **VOID** REV. 2
- B. DETAILS Revise specification MS-46B as itemized on pages 2 through 10  
and add Appendix 4 as per attachment.

JUSTIFICATION: To clarify and formalize the program regarding pipe supports  
that have Seismic Category II requirements.

**VOID SUPERCEDED  
BY REV 1**

## 2. SUPPORTING DOCUMENTATION

## 3. SIGNATURES: RTW:rh

A. APPROVED BY:

*R. E. Stein*  
Design Representative7-24-80  
Date

B. APPROVED BY:

*R. Wolantejns*  
Originator11/23/80  
Date

## 4. STANDARD DISTRIBUTION:

ARMS (Original) (1)  
Quality Engineering (1)  
Original Designer (if CPPE originated) (1)

FOIA-85-59

JOB NO. 35-1195  
RECEIVE  
JUL 25 1980  
RECEIVE

CC-325



### Paragraph 3.0

Delete first sentence and replace with the following:

"This section establishes requirements for design, manufacture, inspection, testing, cleaning and packaging of pipe supports for non-nuclear safety related piping for the Comanche Peak Steam Electric Station (CPSES), a two unit PWR nuclear power plant."

Add paragraphs 3.0.1 and 3.0.2

#### 3.0.1 DEFINITIONS

There are two categories of supports covered by this specification.

- a. Non-Nuclear Safety Related Non-Seismic --applies to all pipe supports not covered by 3.0.1.b
- b. Non-Nuclear Safety Related-Seismic Category II--applies to pipe supports for piping 2½ inches and larger in piping systems , designated Class 5 which are located in a Seismic Category I structure which has not been declassified. Class 5 lines which are so located and determined as not reducing the functioning of essential systems and components to an unacceptable degree shall be declassified. A listing of such supports shall be maintained and included as Appendix 4 to this specification. A support that has been declassified shall be considered as Non-Nuclear Safety Related Non-Seismic.

#### 3.0.2 CODE EXCLUSIVITY

The requirements of this specification relate only to pipe hangers that support ANSI B31.1 or B31.3 piping only. Pipe supports that support piping which must conform to the ASME Boiler and Pressure Vessel Code, Section III are governed by requirements of Specification 2323-MS-46A and are not within the jurisdiction of this specification.

Add paragraph 3.4.1 including 3.4.1.1 through 3.4.1.3 and Tables 3.4-2 and 3.4-3 as follows:

3.4.1 PIPE HANGER IDENTIFICATION

3.4.1.1 IDENTIFICATION OF MULTIPLE HANGERS SUPPORTING ANSI B31.1 AND ASME III PIPING

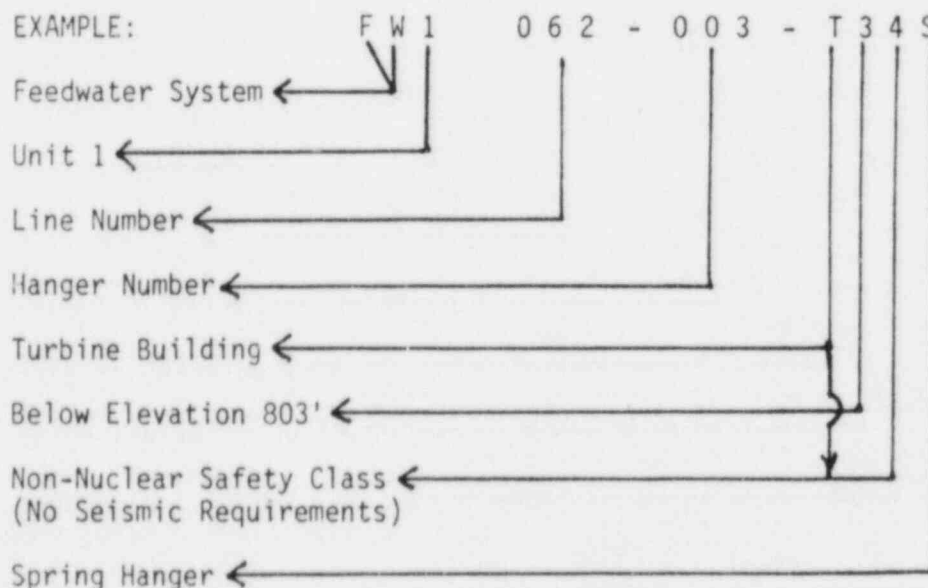
When design conditions and geometry necessitate that a multiple hanger be used to support both ASME Section III piping and ANSI B31.1 or B31.3 piping, the following criteria shall prevail:

- a. Support loads for ASME Section III piping shall be transmitted to the building structure only through a support designed, fabricated, and identified to the requirements of MS-46A. If a portion of a non ASME (MS-46B) support is within this load path, that portion shall be identified by a hanger detail sketch with a "ghosted" detail which references the corresponding MS-46A hanger detail sketch.
- b. Support loads for ANSI B31.1 piping may be transmitted to the building structure through an ASME (MS-46A) pipe support provided the connecting weld or attachment is referenced (ghosted) on the MS-46B sketch and specified on the MS-46A sketch.
- c. In no case shall ASME Section III materials or requirements be specified on a MS-46B hanger detail sketch. The ~~requirements~~ shall be referenced on a MS-46B sketch to a MS-46A sketch and specified on the MS-46A sketch.

### 3.4.1.2 2½-INCH AND LARGER PIPE HANGER IDENTIFICATION

All pipe hangers shall be identified with a unique location (mark) number. The mark number will be comprised as follows:

- a. Line Number (See Para. 3.4) - use System, Unit and Sequential Number only.
- b. Sequential Assembly Number - starting with 001 for each different line number for all areas except as noted below:
  1. Hangers designed and issued by site based design groups shall start with 700.
  2. Hangers designed and issued for the following Unit 2 buildings shall start with 400 - Containment (RB), Safeguards (SB) or Turbine Building (TB).
- c. Building Code - See Table 3.4-2
- d. Area/Elevation - See Table 3.4-3
- e. Classification Code - See Table 3.4-2
- f. Type of Support - See Table 3.4-2



### 3.4.1.3 2-INCH AND SMALLER PIPE HANGER IDENTIFICATION

- (1) Hangers on B-31.1 and B-31.3 small bore piping are selected and located by the Contractor using guidelines and typical detail sketches published by the Pipe Support Design Group of the site mechanical engineering department. Hangers falling into this category are totally non-seismic and have no identification tying them to specific locations.

The exceptions to this shall be as follows:

- a. B-31.1 and B-31.3 piping analyzed by computer analysis.
  - b. B-31.1 and B-31.3 piping interfacing with ASME Section III piping and requiring partial seismic design to meet analysis overlap requirements.
  - c. B-31.1 and B-31.3 piping requiring partial seismic design to meet damage study criteria.
- (2) Seismic supports (and deadweight supports located by computer analysis) on B-31.1 and B-31.3 piping shall be identifiable with a unique location number. The number will be developed as follows:

- a. Piping isometric number
- b. Sequential location number on the isometric
- c. Piping code class

EXAMPLE: H-CC-1-AB-041-020-5

1      2      3 4

1. Generic designation for a pipe support or hanger
2. Piping fabrication isometric number (System-Unit-Building-Sequential Iso No.)
3. Sequential hanger number identification on the isometric
4. Piping code class

All seismically designed hangers on non-safety related piping will be shown on support location isometrics, just as for section III supports.

Due to the implementation of load-rated, NF-Qualified typical support details, a unique sketch is not available with the identification described above. The required typical number will be identified on the support location isometric (GHH-Iso Number) by hanger location sequential number.

In those cases where a typical - type detail is not suitable, a special design (indicated on the Iso as "Spec") shall be generated. The hanger sketch, in this case, will be numbered as described above.

- (3) Although there is no requirement to comply with subsection NF for the design of the subject supports, the load-rated, seismic typicals shall specify code material and weld inspection requirements. These hangers shall not be ASME code stamped.

TABLE 3.4 - 2  
BUILDING, CODE CLASS AND TYPE CODES  
FOR 2½-INCH AND LARGER HANGER IDENTIFICATION

<u>BUILDING</u>	<u>TYPE OF SUPPORT</u>
A - AUXILIARY	A - ANCHOR
C - CONTAINMENT	D - DEADWEIGHT
D - DIESEL GENERATOR (UNIT 2 ONLY)	G - GUIDE
E - ELECTRICAL	K - SNUBBER
F - FUEL	R - RIGID SUPPORT
H - MAINTENANCE	S - SPRING HANGER
J - SERVICE WATER INTAKE STRUCTURE	W - PIPE WHIP RESTRAINT
K - CIRCULATING WATER INTAKE STRUCTURE	MR - ROTATIONAL MOMENT RESTRAINT
S - SAFEGUARDS (UNIT 1&2) AND DIESEL GENERATOR (UNIT 1 ONLY)	
T - TURBINE	
Y - YARD	

CODE CLASS (IN ASSOCIATION WITH BUILDING CODE ABOVE)

<u>BUILDING CODE</u>	<u>CLASSIFICATION</u>	<u>CODE</u>
T	with	4 or 5
K	with	4 or 5
H	with	4 or 5
NON-NUCLEAR SAFETY RELATED NON-SEISMIC		
A	with	5 or 6
C	with	5 or 6
D	with	5 or 6
E	with	5 or 6
F	with	5 or 6
J	with	5 or 6
S	with	5 or 6
Y	with	5 or 6
* NON-NUCLEAR SAFETY RELATED - SEISMIC CATEGORY II REQUIREMENTS		

\*PIPE HANGERS ITEMIZED IN APPENDIX 4 HAVE BEEN DECLASSIFIED AND ARE CONSIDERED TO BE NON-NUCLEAR SAFETY RELATED WITH NO SEISMIC REQUIREMENTS. TWO-INCH AND SMALLER IS NOT INCLUDED IN THIS ITEMIZATION.

TABLE 3.4 - 3  
AREA/ELEVATION CODES FOR HANGER IDENTIFICATION  
2½-INCH AND LARGER

<u>CODE</u>	<u>BUILDINGS</u>					
	CONTAINMENT	SAFEGUARD	AUXILIARY	ELECT.& CONTROL	FUEL	TURBINE
0	CIRCULATING WATER, SERVICE WATER & OTHERS					
1						778
2		790		792		
3		810	810	807	810	803
4	832	831	831	830	838	830
5	860	852	852	854	860	830+
6	885	873	873	873	885	
7	905	896	899		918	
8	1004					
9	1065 & DOME					

NOTE: BUILDING AREA/ELEVATIONS NUMBERS ARE IN FEET AND ARE BOTTOM OF SLAB FIGURES WHICH APPLY TO PIPING BELOW THE SLAB.



Paragraph 3.5.1.a

Delete the existing paragraph and replace with the following:

"Pipe supports for all non-nuclear safety related piping systems shall be designed, fabricated and tested in accordance with the requirements of ANSI B31.1 or ANSI B31.3 code as applied to systems in Table 3.4-1 and the supplemental requirements specified or referenced herein.

Pipe supports designated Non-Nuclear Safety Related-Seismic Category II (See paragraph 3.0.1.b) shall in addition to the above be fabricated in a manufacturing system which provides controls to assure quality. Pipe supports fabricated by the Contractor at the CPSES site shall conform to the quality program requirements of MS-100. Pipe supports fabricated by the Seller at offsite manufacturing locations shall conform to the quality program requirements of Specification MS-46A including manufacture at the same physical manufacturing facility(ies), however, procedures need not be submitted for approval, the supports shall not be "N" stamped and the only documentation required is that of paragraph 3.11".

Paragraph 3.11

Add paragraph 3.11.h

"The seller shall provide a certificate of compliance attesting to conformance with the requirements of this specification at time of shipment. The certification may relate to an entire shipment, but must be identifiable to an individual pipe support."

SECTION 3

APPENDIX 4

*not included  
not needed  
for revision  
JTM*

DECLASSIFIED SUPPORTS AS OF 7/21/80

APPENDIX CONSISTS OF COMPUTERIZED  
PRINTOUT ENTITLED "DECLASSIFIED SUPPORTS"  
(SEE DCA-7955) DATED 7/21/80 PAGES 1 THRU 84