

50-263

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

TO:

Mr. Victor Stello

FROM:

Northern States Power Company  
Minneapolis, Minnesota  
L. O. Mayer

DATE OF DOCUMENT

8/29/77

DATE RECEIVED

8/31/77

☒ LETTER

☒ ORIGINAL

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DESCRIPTION

ENCLOSURE

Consists of response to NRC request for information concerning the Mark I Containment.....notorized 8/29/77.....

(2-P)

(1/4")

PLANT NAME: Monticello  
RJL 8/31/77

SAFETY

FOR ACTION/INFORMATION

ENVIRONMENTAL

ASSIGNED AD:

BRANCH CHIEF: (7)

PROJECT MANAGER:

LICENSING ASSISTANT:

DAVIS

ASSIGNED AD:

BRANCH CHIEF:

PROJECT MANAGER:

LICENSING ASSISTANT:

V. MOORE (LTR)

B. HARLESS

INTERNAL DISTRIBUTION

☒ REG FILES

☒ NRC PDR

☒ T & E (2)

☒ OELD LTR

☒ GOSSICK & STAFF LTR

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☒ P. COLLINS

☒ HOUSTON

☒ MELTZ

☒ HELTEMES

☒ SK

SYSTEMS SAFETY

HEINEMAN

SCHROEDER

ENGINEERING

KNIGHT

BOSNAK

SIHWELL

PAWLICKI

GUIBERT

REACTOR SAFETY

ROSS

NOVAK

ROSZTGCZY

CHECK

AT&I

SALTZMAN

RUTBERG

PLANT SYSTEMS

TEDESCO

BENAROYA

LAINAS

IPPOLITO

F. ROSA

OPERATING REACTORS

STELLO

EISENHUT

SHAO

BAER

BUTLER (2)

GRIMES

SITE SAFETY &

ENVIRON ANALYSIS

DENTON & MULLER

CRITCHFIELD

ENVIRO TECH.

ERNST

BALLARD

YOUNGBLOOD

SITE TECH.

GAMMILL (2)

SITE ANALYSIS

VOLLMER

BUNCH

J. COLLINS

KREGER

EXTERNAL DISTRIBUTION

CONTROL NUMBER

☒ LPDR: MINNEAPOLIS MN.

☒ TIC

☒ NAT LAB

☒ REG IV (J. HANCHETT)

☒ 16 CYS ACRS SENT CATEGORY B

NSIC

7750  
4

772430291

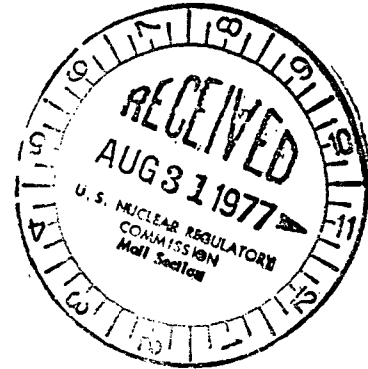
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**NSP****NORTHERN STATES POWER COMPANY**

MINNEAPOLIS, MINNESOTA 55401

August 29, 1977

Mr Victor Stello, Director  
Division of Operating Reactors  
c/o Distribution Services Branch, DDC, ADM  
U S Nuclear Regulatory Commission  
Washington, DC 20555



Dear Mr Stello:

MONTICELLO NUCLEAR GENERATING PLANT  
Docket No. 263 License No. DPR-22

Removal of Drywell-Wetwell  
Differential Pressure Controls

On August 23, 1977 representatives of Northern States Power Company met with members of your staff to review progress of the Mark I Containment modifications at Monticello. We also addressed the NRC criteria for removal of differential pressure controls which were transmitted to us with a letter from Mr D K Davis, dated May 19, 1977. Enclosure (1) contains copies of the view graphs used during our presentation during the August 23 meeting.

During this meeting we were informed by your staff that to remove differential pressure controls we must either demonstrate compliance with the criteria in the May 19 letter or the loads must be less than code allowable. It is shown in Tables 2.2-2 and Tables 2.2-3 of enclosure (2) that at the maximum torus water level the strength ratios of all critical structural elements are either less than 0.5 or code allowable. The loads used to derive these ratios were determined in accordance with the information contained in the May 19 letter.

Since the Staff criteria for removal of differential pressure controls are satisfied at Monticello we hereby withdraw our License Amendment Request dated April 15, 1977 and our License Amendment Request dated November 5, 1976, which was superseded by the April 15 submittal, and the commitments contained in our March 1, 1976 letter to you on this subject. The amendment requests contained revisions to the Technical Specifications covering the drywell to suppression chamber differential pressure, containment water volume and differential pressure instrumentation.

For your information, we have provided the strength ratios of the critical structural elements at the maximum torus water level without delta-P and without the 1.33 multiplier. This information is contained in Tables 2.2-1a, 2.2-2a and 2.2-3a of enclosure (2), and demonstrates that all elements meet code allowable or are very close to it. The 1.33 multiplier was dropped for this case on the

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NORTHERN STATES POWER COMPANY

Mr Victor Stello

Page 2

August 29, 1977

basis of the information presented to your staff by General Electric on August 24, 1977, which demonstrated that the pool swell loads from the one quarter scale test program are approximately 80% of the values reported in the Short Term Program Report.

Yours very truly,

A handwritten signature in cursive script, appearing to read "L O Mayer for".

L O Mayer, PE  
Manager of Nuclear Support Services

LOM/LLT/ak

cc: J G Keppler  
G Charnoff  
MPCA - Attn: J W Ferman

UNITED STATES NUCLEAR REGULATORY COMMISSION

NORTHERN STATES POWER COMPANY

MONTICELLO NUCLEAR GENERATING PLANT

Docket No. 50-263

License No. DPR-22

LETTER DATED AUGUST 29, 1977  
RESPONDING TO NRC REQUESTS  
FOR INFORMATION ON CONTAINMENT DESIGN

Northern States Power Company, a Minnesota corporation, by this letter dated August 29, 1977 hereby submits information in response to NRC requests for information concerning the Mark I Containment.

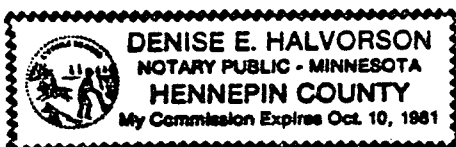
This request contains no restricted or other defense information.

NORTHERN STATES POWER COMPANY

By *L. J. Wachter*  
L J Wachter  
Vice President, Power Production  
& System Operation

On this 29th day of August, 1977, before me a notary public in and for said County, personally appeared L J Wachter, Vice President, Power Production and System Operation, and being first duly sworn acknowledged that he is authorized to execute this document on behalf of Northern States Power Company, that he knows the contents thereof and that to the best of his knowledge, information and belief, the statements made in it are true and that it is not interposed for delay.

*Denise E. Halvorson*



TORUS SUPPORT COLUMN CONNECTION

## ● PURPOSE OF REINFORCEMENT

- COMPLETE SUPPORT REINFORCEMENT CHAIN
- PIN CONNECTION AT BASE OF COLUMN AND  
COLUMNS HAVE BEEN PREVIOUSLY  
REINFORCED

## ● LOAD BASIS FOR STRENGTH RATIO CALCS.

- PLANT UNIQUE ANALYSIS REPORT  
(SHORT TERM PROGRAM)
- POOL SWELL + DEAD LOAD + SEISMIC W $\Delta$ P
  - IS COL. = 654.4K
  - OS COL. = 847.2K

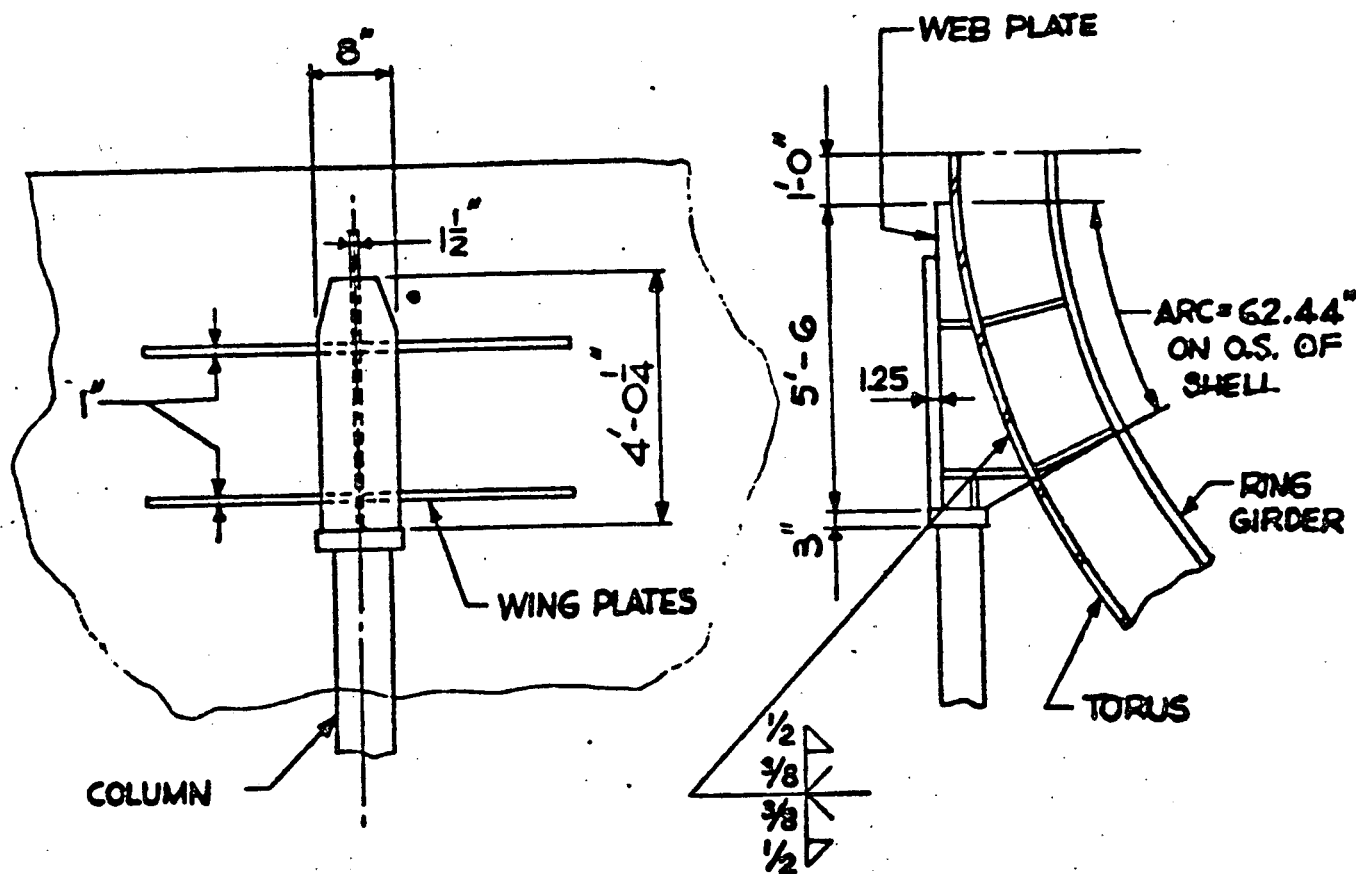


Figure 2.2-1

UNREINFORCED SUPPORT COLUMN TO SHELL CONNECTION

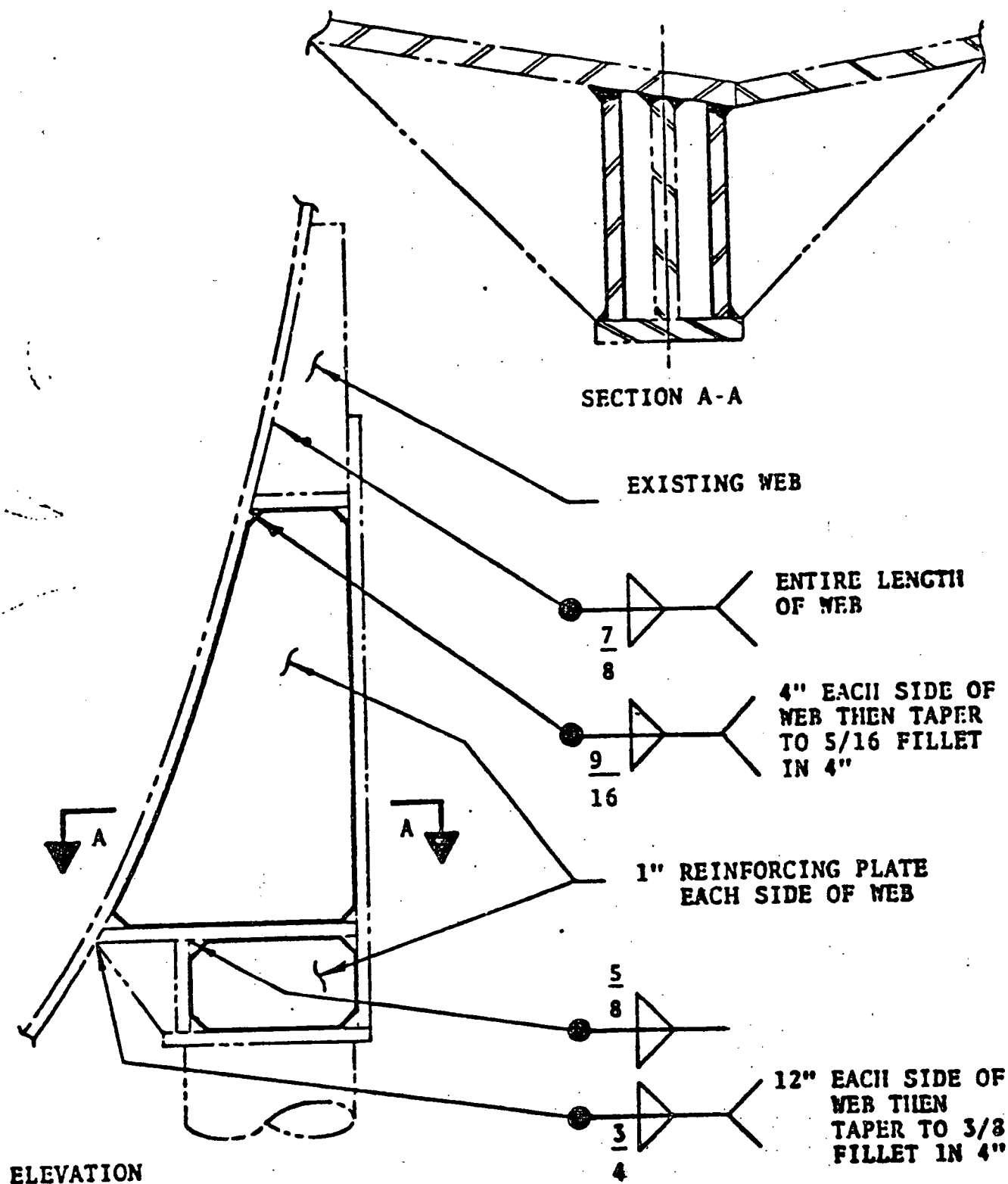


Figure 2.2-2

REINFORCED SUPPORT COLUMN TO SHELL CONNECTION

TORUS SUPPORT CAPACITIES

COMPONENT	CODE ALLOWABLE	ULTIMATE	STRENGTH RATIO
SHELL CONNECTION	940K	2820K	0.30
COLUMN	1189K	3288K	0.26
PIN CONNECTION	993K	2960K	0.29

STP DOWNWARD LOAD  $W/\Delta P$  FOR O.S. COLUMN = 847K



SUMMARY

- INCREASED SIZE OF EXISTING WELDS TO FULLY DEVELOP STRENGTH OF 1 1/2" WEB PLATE
- ADDED 1" REINFORCING PLATES PARALLEL TO EXISTING WEB
- PERFORMED FINITE ELEMENT ANALYSIS OF REINFORCED CONNECTION
- REPLACED APPROXIMATE MANUAL CALCULATION OF CONNECTION STRENGTH WITH ACCURATE COMPUTER ANALYSIS
- INCREASED CODE ALLOWABLE STRENGTH OF CONNECTION TO BE NEAR THAT OF COLUMN AND PIN CONNECTION AT BASE OF COLUMN

## VENT HEADER SUPPORT COLUMN CONNECTION

- PURPOSE

- INCREASE CONNECTION CAPACITY TO BE NEAR THAT OF COLUMN IN TENSION
- CONNECTION CAPACITY 74 KIPS
- PIPE COL. CAPACITY 151 KIPS

- LOAD BASIS

- PLANT UNIQUE ANALYSIS REPORT  
(SHORT TERM PROGRAM)
- POOL SWELL IMPACTING VENT HEADER  
MAX. NET TENSION = 131 KIPS

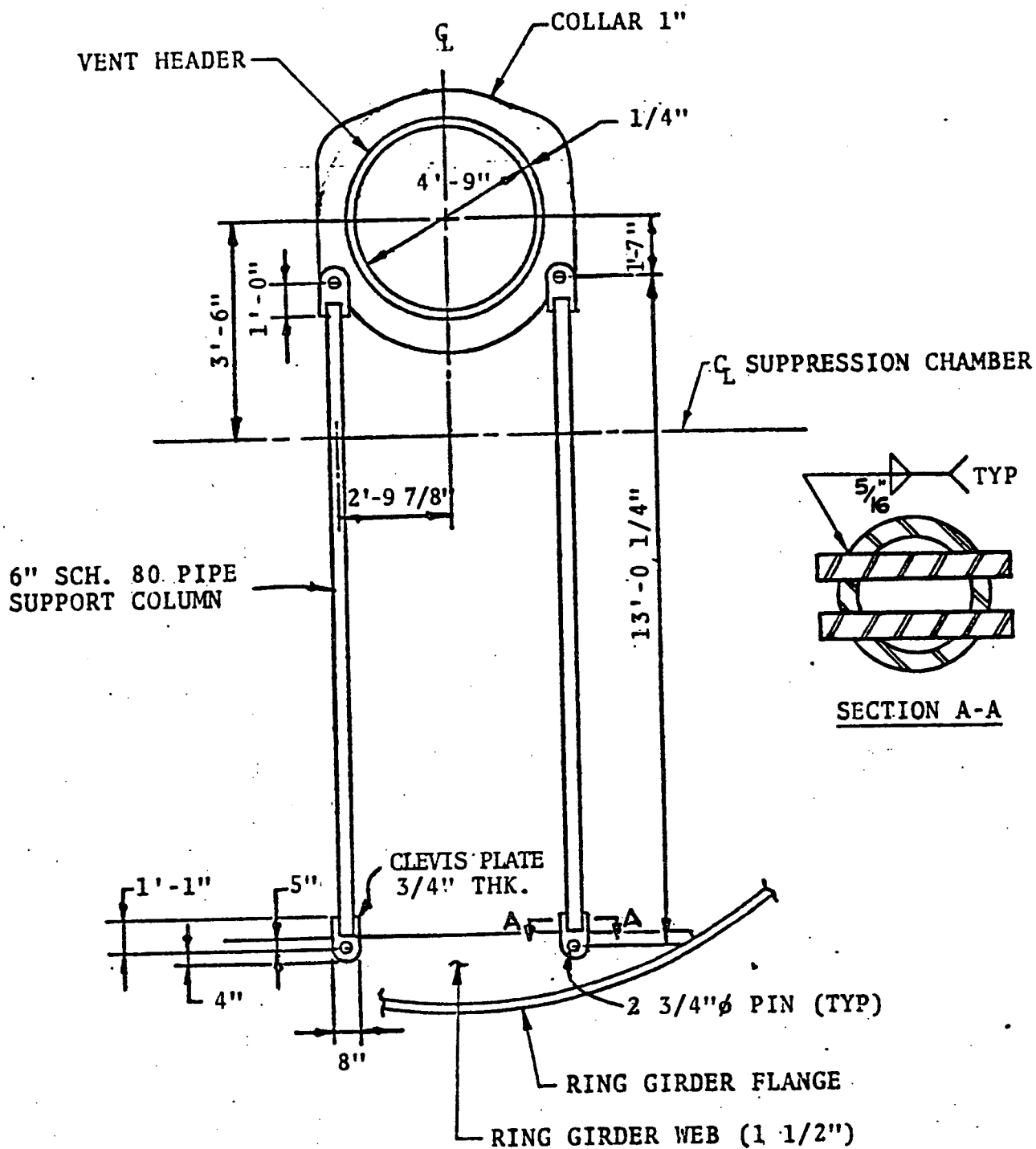


Figure 3.3-1

VENT HEADER SUPPORTS

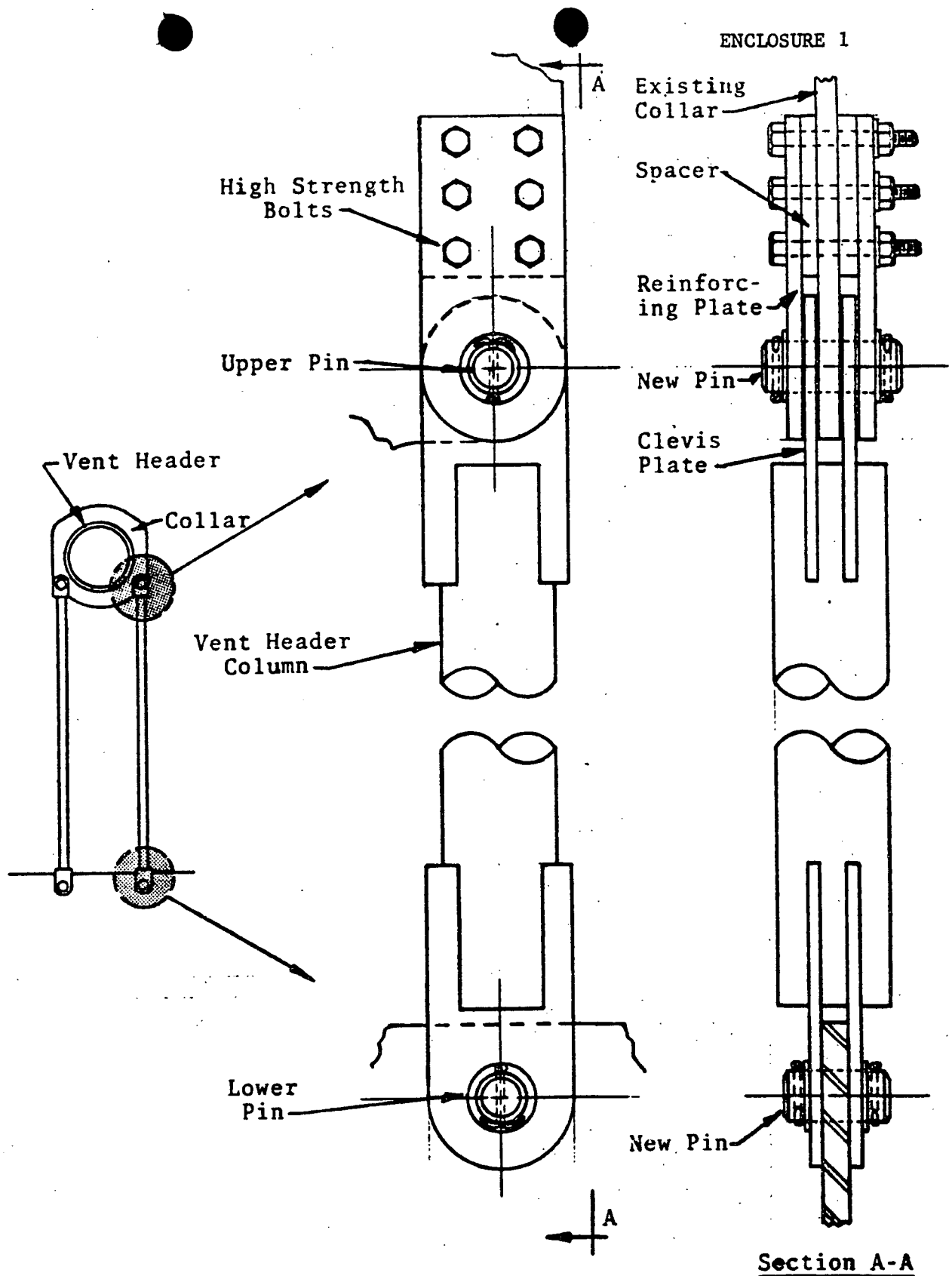


Figure 4.0-1  
VENT HEADER COLUMN MODIFICATION

CODE ALLOWABLE CAPACITY

<u>ELEMENT</u>	<u>STRESS</u>	<u>UNREINF.</u>	<u>REINF.</u>
COLLAR	SHEAR	88 <sup>K</sup>	220 <sup>K</sup>
UPPER PIN	SHEAR	143 <sup>K</sup>	911 <sup>K</sup>
	BEARING	74 <sup>K</sup>	141 <sup>K</sup>
	BENDING	140 <sup>K</sup>	926 <sup>K</sup>
PIN PLATE	TENSION	134 <sup>K</sup>	134 <sup>K</sup>
	SHEAR	132 <sup>K</sup>	132 <sup>K</sup>
	WELD SHEAR	223 <sup>K</sup>	223 <sup>K</sup>
PIPE COL.	TENSION	151 <sup>K</sup>	151 <sup>K</sup>
LOWER PIN	SHEAR	143 <sup>K</sup>	548 <sup>K</sup>
	BEARING	111 <sup>K</sup>	141 <sup>K</sup>
	BENDING	117 <sup>K</sup>	449 <sup>K</sup>
RING WEB	SHEAR	138 <sup>K</sup>	138 <sup>K</sup>

## SYSTEM

UNREINFORCED CAPACITY = 74<sup>K</sup>REINFORCED CAPACITY = 132<sup>K</sup>

ULTIMATE CAPACITY

<u>ELEMENT</u>	<u>STRESS</u>	<u>UNREINF.</u>	<u>REINF.</u>
COLLAR	SHEAR	276 <sup>K</sup>	690 <sup>K</sup>
UPPER PIN	SHEAR	606 <sup>K</sup>	1885 <sup>K</sup>
	BEARING	308 <sup>K</sup>	462 <sup>K</sup>
	BENDING	373 <sup>K</sup>	2469 <sup>K</sup>
PIN PLATE	TENSION	548 <sup>K</sup>	548 <sup>K</sup>
	SHEAR	413 <sup>K</sup>	413 <sup>K</sup>
	WELD SHEAR	589 <sup>K</sup>	589 <sup>K</sup>
PIPE COL.	TENSION	462 <sup>K</sup>	462 <sup>K</sup>
LOWER PIN	SHEAR	606 <sup>K</sup>	1134 <sup>K</sup>
	BEARING	462 <sup>K</sup>	462 <sup>K</sup>
	BENDING	313 <sup>K</sup>	1197 <sup>K</sup>
RING WEB	SHEAR	431 <sup>K</sup>	431 <sup>K</sup>

## SYSTEM

UNREINFORCED CAPACITY = 276<sup>K</sup>REINFORCED CAPACITY = 413<sup>K</sup>

VENT HEADER SUPPORT CAPACITIES

	CODE ALLOWABLE	ULTIMATE	STRENGTH RATIO
PRIOR TO REINFORCEMENT	74K	276K	0.47
AFTER REINFORCEMENT	132K	413K	0.32

STP LOAD = 131 KIPS

DRYWELL/WETWELL DIFFERENTIAL PRESSURE REMOVAL

● NRC CRITERIA

- DETERMINE LOADS W/O  $\Delta P$  USING  
STP REPORT ADDENDUM 2
- INCREASE LOADS W/O  $\Delta P$  BY 33%
- LIMITING STRENGTH RATIO = 0.50



TABLE 2.1-1  
TORUS SUPPORT COLUMN MAXIMUM COMPRESSIVE LOADS  
AT MINIMUM WATER LEVEL

1	2	3	4	5	6	7
COLUMN	POOLSWELL LOAD ( $\Delta P$ ) (KIPS) (1)	ADJUSTED POOLSWELL LOAD (KIPS) (2)	STEEL & WATER LOAD (KIPS) (1)	VERTICAL SEISMIC LOAD (KIPS) (1)	HORIZONTAL SEISMIC LOAD (KIPS) (1)	TOTAL LOAD (KIPS) (3)
INSIDE	493.3	795.3	147.6	8.8	4.7	956.4
OUTSIDE	655.9	1057.4	172.6	10.4	8.3	1248.7

## NOTES:

(1) NSP-01-140, Table 6.1.1-1, minimum submergence, Reference 2

(2) "Acceptance Criteria for the Removal or Reduction of Drywell-Wetwell Differential Pressure Controls"

$$493.3 \times \left(\frac{1}{.825}\right) \times (1.33) = 795.3$$

$$655.9 \times \left(\frac{1}{.825}\right) \times (1.33) = 1057.4$$

(3) Summation of columns 3, 4, 5, and 6

TABLE 2.1-2  
DOWNWARD LOADS  
ULTIMATE CAPACITIES AND STRENGTH RATIOS  
AT MINIMUM WATER LEVEL

1		2	3	4
COMPONENT		LOAD (KIPS) (1)	STP ULTIMATE CAPACITY (KIPS)	ULTIMATE STRENGTH RATIO
INSIDE	SHELL CONNECTION	956.4	2820 (2)	.34
	COLUMN		3140 (3)	.30
	PIN CONNECTION		2960 (3)	.32
OUTSIDE	SHELL CONNECTION	1248.7	2820 (2)	.44
	COLUMN		3288 (3)	.38
	PIN CONNECTION		2960 (3)	.42

## NOTES:

- (1) Adjusted no  $\Delta P$  load for minimum submergence from Table 2.1-1
- (2) Capacities per NSP-01-176, Reference 4
- (3) Capacities per NSP-01-140, Reference 2

TABLE 2.1-3

STRESS INTENSITIES AND STRENGTH RATIOS  
FOR RING AND SHELL AT MINIMUM WATER LEVEL

1	2	3	4	5	6	7	8	9
COMPONENT	MAXIMUM STRESS INTENSITY (KSI) (1)		ADJUSTED MAXIMUM STRESS INTENSITY (KSI) (2)		STP ULTIMATE CAPACITY (KSI)		ULTIMATE STRENGTH RATIO	
	$P_L$	$P_L + Q$	$P_L$	$P_L + Q$	$P_L$	$P_L + Q$	$P_L$	$P_L + Q$
RING	16.6	16.6	23.9	23.9	76.0	76.0	.31	.31
SHELL	21.6	24.0	32.2	36.2	76.0	76.0	.42	.48

## NOTES:

- (1) Stress from NSP-01-140 for minimum submergence with  $\Delta p$  (1.0 psi), Reference 2.
- (2) Pool Swell loads without  $\Delta p$  increased by 1/3 and added to dead load plus seismic
- (3)  $P_L$  = Local primary membrane stresses
- (4)  $Q$  = Secondary stresses

Table 2.2-1  
TORUS SUPPORT COLUMN MAXIMUM COMPRESSIVE LOADS  
AT MAXIMUM WATER LEVEL

1	2	3	4	5	6	7
COLUMN	POOLSWELL LOAD (ΔP) (KIPS) (1)	ADJUSTED POOLSWELL LOAD (KIPS) (2)	STEEL & WATER LOAD (KIPS) (3)	VERTICAL SEISMIC LOAD (KIPS) (3)	HORIZONTAL SEISMIC LOAD (KIPS) (3)	TOTAL LOAD (KIPS) (4)
INSIDE	530.9	855.9	164.0	9.8	5.2	1034.9
OUTSIDE	705.9	1138.0	191.8	11.6	9.2	1350.6

## NOTES:

(1) NSP-01-168, Table 2, Maximum submergence, Reference 5

(2) "Acceptance Criteria for the Removal or Reduction  
of Drywell-Wetwell Differential Pressure Controls"

$$530.9 \times \left( \frac{1}{.825} \right) \times (1.33) = 855.9$$

$$705.9 \times \left( \frac{1}{.825} \right) \times (1.33) = 1138.0$$

(3) Table 2, NSP-01-168

(4) Summation of Columns 3, 4, 5, and 6

TABLE 2.2-2

DOWNWARD LOADSULTIMATE CAPACITIES AND STRENGTH RATIOSAT MAXIMUM WATER LEVEL

1		2	3	4
COMPONENT		LOAD (KIPS) (1)	STP ULTIMATE CAPACITY (KIPS)	ULTIMATE STRENGTH RATIO
INSIDE	SHELL CONNECTION	1034.9	2820 (2)	.37
	COLUMN		3140 (3)	.33
	PIN CONNECTION		2960 (3)	.35
OUTSIDE	SHELL CONNECTION	1350.6	2820 (2)	.48
	COLUMN		3288 (3)	.41
	PIN CONNECTION		2960 (3)	.46

## NOTES:

- (1) Adjusted no  $\Delta P$  load for maximum submergence from Table 2.2-1
- (2) Capacities per NSP-01-176, Reference 4
- (3) Capacities per NSP-01-140, Reference 2

## STRUCTURAL CAPACITY SUMMARY

- TORUS SUPPORT COLUMN CONNECTIONS  
HAVE BEEN REINFORCED
- VENT HEADER SUPPORT COLUMN  
CONNECTION REINFORCEMENT IS  
PLANNED
- NRC CRITERIA FOR  $\Delta P$  REMOVAL DURING  
SRV DISCHARGE TEST IS SATISFIED

TABLE 2.2-3

STRESS INTENSITIES AND STRENGTH RATIOS  
FOR RING AND SHELL AT MAXIMUM WATER LEVEL

1	2	3	4	5	6	7	8	9
COMPONENT	MAXIMUM STRESS INTENSITY (KSI) (1)		ADJUSTED MAXIMUM STRESS INTENSITY (KSI) (2)		STP ULTIMATE CAPACITY (KSI)		ULTIMATE STRENGTH RATIO	
	$P_L$	$P_L + Q$	$P_L$	$P_L + Q$	$P_L$	$P_L + Q$	$P_L$	$P_L + Q$
RING	16.6	16.6	25.4	25.4	76.0	76.0	.33	.33
SHELL	21.6	24.0	34.4	38.7	76.0	76.0	.45	MEETS CODE

## NOTES:

- (1) Stress from NSP-01-140 for minimum submergence with  $\Delta p$  (1.0 psi), Reference 2.
- (2) Pool swell loads with  $\Delta p$  increased by 1/3 and added to dead load plus seismic
- (3)  $P_L$  = Local primary membrane stresses
- (4)  $Q$  = Secondary stresses

TABLE 2.2-3A

STRESS INTENSITIES AND STRENGTH RATIOS  
FOR RING AND SHELL AT MAXIMUM WATER LEVEL

1	2	3	4	5	6	7	8	9
COMPONENT	MAXIMUM STRESS INTENSITY WITHOUT $\Delta P$ (ksi) (1)		CODE ALLOWABLE STRESS INTENSITY (ksi) (2)		STP ULTIMATE CAPACITY (ksi)		STRENGTH RATIO ULTIMATE\CODE	
	$P_L$	$P_L+Q$	$P_L$	$P_L+Q$	$P_L$	$P_L+Q$	$P_L$	$P_L+Q$
RING	20.5	20.5	19.3	57.8	76.0	76.0	1.06 .27	.35 MEETS CODE
SHELL	26.9	30.1	28.95	57.8	76.0	76.0	.93 MEETS CODE	.52 MEETS CODE

## NOTES:

- (1) Pool swell loads without  $\Delta p$  added to dead load plus seismic
- (2) NSP-01-140
- (3)  $P_L$  = Local primary membrane stresses
- (4)  $Q$  = Secondary stresses

ENCLOSURE 2

NSP-11-019  
Revision 1



TABLE 2.2-2

DOWNWARD LOADSULTIMATE CAPACITIES AND STRENGTH RATIOSAT MAXIMUM WATER LEVEL

1		2	3	4	5	6
COMPONENT		LOAD (KIPS) (1)	CODE ALLOWABLE LOAD (KIPS)	ULTIMATE CAPACITY (KIPS)	CODE ALLOWABLE RATIO	ULTIMATE CAPACITY RATIO
INSIDE	SHELL CONNECTION	1034.9	940 (2)	2820 (2)	1.10	.37
	COLUMN		1117 (3)	3121 (3)	.93	MEETS CODE
	PIN CONNECTION		993 (3)	2960 (3)	1.04	.35
OUTSIDE	SHELL CONNECTION	1350.6	940 (2)	2820 (2)	1.44	.48
	COLUMN		1166 (3)	3172 (3)	1.16	.43
	PIN CONNECTION		993 (3)	2960 (3)	1.36	.46

## NOTES:

- (1) Adjusted no  $\Delta P$  load for maximum submergence from Table 2.2-1
- (2) Capacities per NSP-01-176, Reference 4
- (3) Capacities per NPS-01-140, Reference 2

TABLE 2.2-3

STRESS INTENSITIES AND STRENGTH RATIOS  
FOR RING AND SHELL AT MAXIMUM WATER LEVEL

1	2	3	4	5	6	7	8	9
COMPONENT	ADJUSTED MAXIMUM STRESS INTENSITY (ksi) (1)		CODE ALLOWABLE STRESS INTENSITY (ksi) (2)		STP ULTIMATE CAPACITY (ksi)		STRENGTH RATIO ULTIMATE \ CODE	
	$P_L$	$P_L + Q$	$P_L$	$P_L + Q$	$P_L$	$P_L + Q$	$P_L$	$P_L + Q$
RING	25.4	25.4	19.3	57.8	76.0	76.0	1.32 .33	.44 MEETS CODE
SHELL	34.4	38.7	28.95	57.8	76.0	76.0	1.19 .45	.67 MEETS CODE

## NOTES:

- (1) Pool swell loads without  $\Delta P$  increased by 1/3 and added to dead load plus seismic
- (2) NSP-01-140
- (3)  $P_L$  = Local primary membrane stresses
- (4)  $Q$  = Secondary stresses

ENCLOSURE 2

 NSP-11-019  
 Revision 1

TABLE 2.2-1A

TORUS SUPPORT COLUMN MAXIMUM COMPRESSIVE LOADS  
AT MAXIMUM WATER LEVEL

1	2	3	4	5	6	7
COLUMN	POOLSWELL LOAD $\Delta P$ (kips) (1)	POOLSWELL LOAD WITHOUT $\Delta P$ (kips) (2)	STEEL & WATER LOAD (kips) (3)	VERTICAL SEISMIC LOAD (kips) (3)	HORIZONTAL SEISMIC LOAD (kips) (3)	TOTAL LOAD (kips) (4)
INSIDE	530.9	643.5	164.0	9.8	5.2	822.5
OUTSIDE	705.9	855.6	191.8	11.6	9.2	1068.2

## NOTES:

- (1) NSP-01-168, Table 2, Maximum submergence, Reference 5  
 (2) Determination of Poolswell Load without Drywell-Wetwell differential pressure

$$530.9 \times \left(\frac{1}{.825}\right) = 643.5$$

$$705.9 \times \left(\frac{1}{.825}\right) = 855.6$$

- (3) Table 2, NSP-01-168  
 (4) Summation of Columns 3, 4, 5, and 6

TABLE 2.2-2A

DOWNWARD LOADSULTIMATE CAPACITIES AND STRENGTH RATIOSAT MAXIMUM WATER LEVEL

1		2	3	4	5	6
COMPONENT		LOAD (KIPS) (1)	CODE ALLOWABLE LOAD (KIPS)	ULTIMATE CAPACITY (KIPS)	CODE ALLOWABLE RATIO	ULTIMATE CAPACITY RATIO
INSIDE	SHELL CONNECTION	822.5	940 (2)	2820 (2)	.88	MEETS CODE
	COLUMN		1120 (3)	3131 (3)	.73	MEETS CODE
	PIN CONNECTION		993 (3)	2960 (3)	.83	MEETS CODE
OUTSIDE	SHELL CONNECTION	1068.2	940 (2)	2820 (2)	1.14	.38
	COLUMN		1178 (3)	3236 (3)	.91	MEETS CODE
	PIN CONNECTION		993 (3)	2960 (3)	1.08	.36

## NOTES:

- (1) Poolswell Load without  $\Delta P$  for maximum submergence from Table 2.2-1A
- (2) Capacities per NSP-01-176, Reference 4
- (3) Capacities per NSP-01-140, Reference 2