

FORM 1
Page 3 of 3
 (Page 1 and 2 contain the instructions)

CALCULATION COVER SHEET		Page 1 of <u>2</u>
CALCULATION NUMBER.: <u>SC-0270</u>		REVISION: <u>0</u>
TITLE: <u>Bending evaluation of Snubber for support # 1-P-FD-006-H20</u>		
# SHTS (CALC): <u>5</u>	#ATT#SHTS: <u>3 / 5</u>	#IDV/50.59 SHTS: <u>0 / 4</u> #TOTAL SHTS: <u>14</u>

CHECK ONE:

- FINAL
 INTERIM (Proposed Plant Change)
 VOID
 FINAL (Future Confirmation Req'd, enter tracking Notification number: _____)

SALEM OR HOPE CREEK:
 Q - LIST
 IMPORTANT TO SAFETY
 NON-SAFETY RELATED

HOPE CREEK ONLY:
 Q
 Qs
 Qsh
 F
 R

ARE STATION PROCEDURES IMPACTED? YES NO

IF "YES", INTERFACE WITH THE SYSTEM ENGINEER & PROCEDURE SPONSOR. ALL IMPACTED PROCEDURES SHOULD BE IDENTIFIED IN A SECTION IN THE CALCULATION BODY [CRCA 70038194-0280]. INCLUDE AN SAP OPERATION FOR UPDATE AND LIST THE SAP ORDERS HERE AND WITHIN THE BODY OF THIS CALCULATION.

CP and ADs/CDs INCORPORATED (IF ANY): None

DESCRIPTION OF CALCULATION REVISION (if applicable.):

See cover sheet # 2

PURPOSE:


See calculation sheet # 2

CONCLUSIONS:

See calculation sheet # 2

	Printed Name / Signature	Date
ORIGINATOR/COMPANY NAME:	M. C. Chang / PS <i>M. C. Chang</i>	12/13/04
REVIEWER/COMPANY NAME:	T. Snyder / SW <i>T. M. Snyder</i>	12/14/04
VERIFIER/COMPANY NAME:	N/A	
CONTRACTOR SUPERVISOR (if applicable)	N/A	
PSEG SUPERVISOR APPROVAL: (Always required)	Alan Johnson <i>Alan Johnson</i>	12/15/04

FORM 2
 Page 2 of 2 (Page 1 contains the instructions)
CALCULATION CONTINUATION SHEET

	CALCULATION CONTINUATION SHEET	COVER SHEET: 2 CONT'D ON SHEET:
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CALC. NO.: SC-0270	REFERENCE:
ORIGINATOR,DATE	REV: <i>NCL 12-13-04 0</i>
REVIEWER/VERIFIER,DATE	<i>TMS 12/13/04</i>

PIPE SUPPORT CALCULATION REVISION HISTORY

Rev.	Revision History	Notes
0	Original issue	

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 (Page 1 contains the instructions)

CALCULATION CONTINUATION SHEET			SHEET: <u> 1 </u>
			CONT'D ON SHEET: <u> </u>
CALC NO.:	<u> SC-0270 </u>	REV: <u> 0 </u>	REFERENCE: <u> </u>
ORIGINATOR:	<u> MCC </u>	DATE:	<u> 12-13-04 </u>
REVIEWER:	<u> TMS </u>	DATE:	<u> 12/13/04 </u>
DESIGN VERIFIER:	<u> </u>	DATE:	<u> </u>

PIPE SUPPORT CALCULATION TABLE OF CONTENTS

<u>SECTION</u>	<u>SUBJECT</u>	<u>SHEET #</u>
1.0	Purpose	2
2.0	Calculation Method	2
3.0	Assumption	2
4.0	References	2
5.0	Conclusions	2
	Evaluation	3

<u>ATTACHMENTS</u>	<u>SUBJECT</u>	<u># OF SHEETS</u>
1	Pipe Support Detail Drawings (W/MD)	2
2	LISEGA Document # 83691-4-4090 rev 7	1
3	E-mail from B. Brammeier, dated 12-10-04 & 12-13-04	2

FORM 2
Page 2 of 2
(Page 1 contains the instructions)

CALCULATION CONTINUATION SHEET			SHEET: <u>2</u>
CALC NO.:	<u>SC-0270</u>	REV: <u>0</u>	REFERENCE: _____
ORIGINATOR:	<u>MCC</u>	DATE:	<u>12-13-04</u>
REVIEWER:	<u>TMS</u>	DATE:	<u>12/13/04</u>
DESIGN VERIFIER:	_____	DATE:	_____

1.0 PURPOSE:

This calculation is part of a study to determine the possible cause for a snubber being damage. Simply calculate the required concentrated load to cause the horizontal LISEGA snubber to reach the yield stress.

2.0 CALCULATION METHOD:

Consider a simply beam with a concentrated load apply at center to calculate the maximum stress and deflection.

3.0 ASSUMPTION:

None

4.0 REFERENCES:

1. Support dwg 1-P-FD-006-H20(Q) with outstanding change 4EO-3507-3/0, MD-H84/0
2. LISEGA document # 83691-4-4090 rev 7
3. Manual of steel construction, AISC 8th edition

5.0 CONCLUSIONS:

Based on the results of this calculation, a 218-pound weight will cause the pipe to reach its yield stress and may cause the snubber assembly to bend and deflect 5/8".

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(Page 1 contains the instructions)

CALCULATION CONTINUATION SHEET

SHEET: 3

CONT'D ON SHEET: _____

CALC NO.: SC-0270 REV: 0 REFERENCE: _____
ORIGINATOR: MCL DATE: 12-13-04
REVIEWER: TMS DATE: 12/13/04
DESIGN VERIFIER: _____ DATE: _____

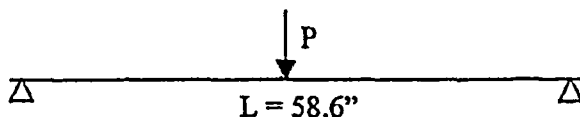
5.0 EVALUATION:

Per DWG, ref # 1, the length of snubber is 9.3" and length of extension piece is 49.3". It makes a total "pin to pin" distance is 58.6".

Per att # 3, a 1.31" O.D pipe with $t = 0.062$ " is matched with 1" sch. 5S pipe.
 $S = 0.076 \text{ in}^3$, $I = 0.05 \text{ in}^4$

Per ref # 2 & 3 the material of extension piece is A500 GR. B, &
Yield stress: $F_y = 42000 \text{ psi}$

Consider a simply beam with a concentrated load apply at center as shown below:



Maximum bending moment: $M = P * L / 4$

Maximum bending stress: $\sigma_b = M / S = F_y$ (to reach yield stress)

The load required to cause the beam bending stress reaching yield stress is

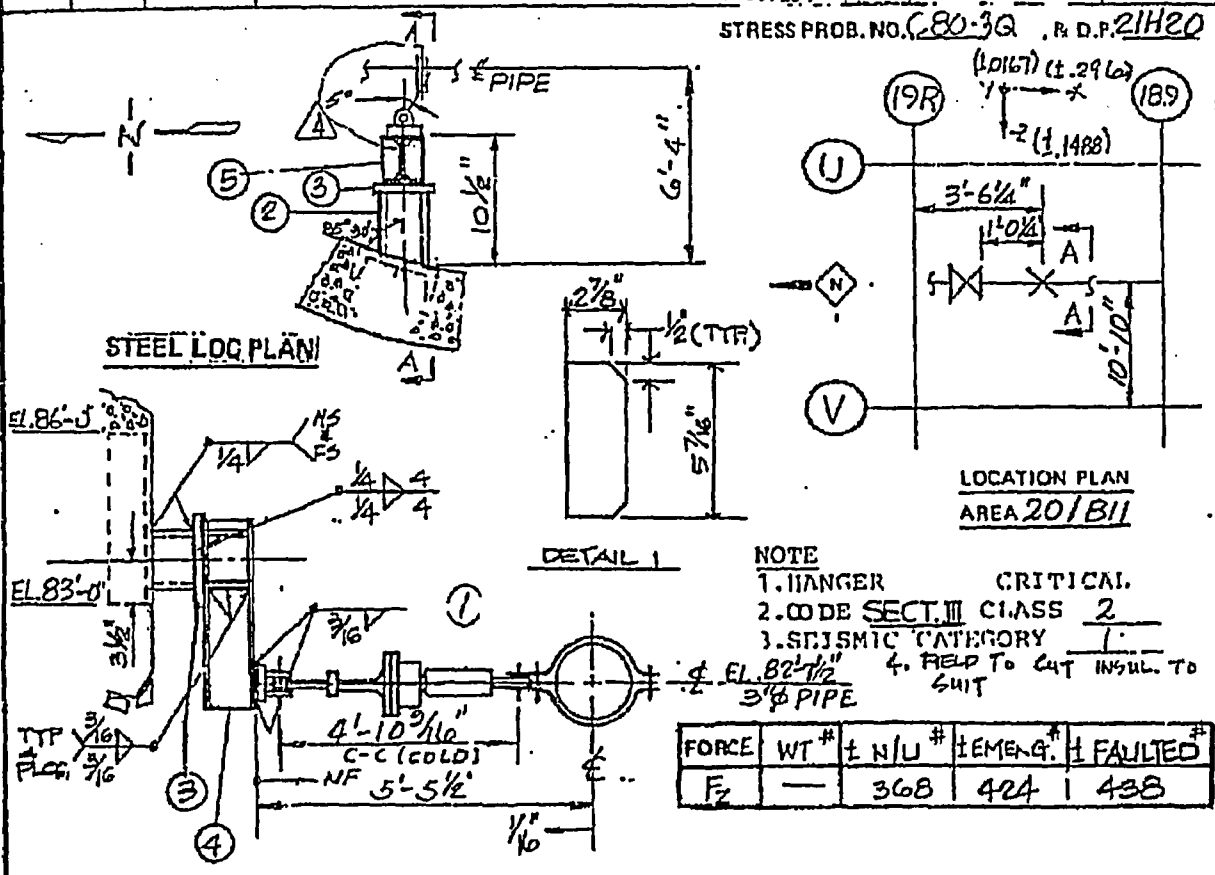
$$P = 4 * S * \sigma_b / L = 4 * 0.076 * 42000 / 58.6 = 218 \text{ lbs}$$

The deflection at the center of beam may be caused by 218 lbs of weight when pipe reach yield

$$\Delta = P * L^3 / (48 * E * I) = 218 * 58.6^3 / (48 * 29E6 * 0.05) = 0.63 \text{ in}$$

ITEM NO	NO REQ'D	FIG. NO.	SIZE	DESCRIPTION	MAT'L
1	1	307	# 1/2	MECHANICAL SHOCK ARRESTOR. PIPE O.D. = 3 1/2" , STROKE = 2 1/2" CS = 1 3/8" , HS = 1 5/16" , MVT. = 40" (RETRACTS), LOAD = 585 LBS. W = 3'-8 1/16" ACCELERATION = .02g, MAT'L PER P & PV CODE SECT. III	
2	1	-	156 X 6 X 1/2	x 0'-4 1/8" LG. ASTM A500 GR. B (FLD. CUT TO SUIT)	
3	1	-	P 1/2" x 7" x 7"		
4	1	-	W 6 x 20 x 1'-4"	LG	
5	4	-	P 3/8" x 2 1/8" x 5 7/16"	LG. (SEE DET. 1)	

NOTE: ALL MAT'L TO BE SA-36 U.N.D.



ELEVATION A-A
 (E-W SNUBBER)

MARK NO 1-FD-006-H20

REV	DATE	REVISIONS	BY	CHK'D	DESIGN	ENGR	STRS	PROJ
1		REVISED PER FCR. H-2199						
2		ISSUED FOR FIELD STRESS CALC. & CORRECTED						
3		FIELD REV # F2 FOR P-11083						

PUBLIC SERVICE ELECTRIC AND GAS COMPANY
 HOPE CREEK GENERATING STATION
 PG. 1 & 2 UNITS

SYSDO 1-P-BC-06 REV. 9
 REF. DWGS PIPE P- STEEL C-0703-1 SHT. 1, REV. 19

PIPE SUPPORT REACTOR BLDG. R.H.R. CROSS-CONNECT VACUUM BREAKERS FROM TORUS	JOB NO. 10855	DRAWING NO. 1-P-FD-006-H20(Q)	REV. 4
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H-SNUB - 429

REV

BANKED CHANGE DOCUMENT
 PRINTED 20041211

ATTACHMENT 1
 PAGE 2 OF 2
 CALG. NO. SC-0270 R/o

PART 2 - MODIFICATION AND TESTING, SECTION 5.0
 FORM NC.DE-WB.ZZ-0003-7
 MODIFICATION DOCUMENT COVER SHEET

MD NO.: H 84
 CHANGE NO.: 4EO-3507
 PACKAGE NO.: 03
 CP REV. NO.: 0

PAGE NO. 1
 REV. NO. 0

DOCUMENT CHANGED: DWG# 1-P-FD-006-H020 Rev. 4 SHT/VOL NO.: 001
 (PROVIDE TYPE, NUMBER AND REV. THAT CHANGE IS BASED ON)

ACTUAL CHANGE TO BE MADE: Replace existing snubber with LISEGA
Hydraulic Snubber as detailed below :

Hanger No.	Existing Snubber	Replaced by New LISEGA Part no.		
		Snubber	Pin	Stud / Pin
1-P-FD-006-H020	PSA0.50	301856RE2	30-1003-03B	30-1025-03B,L-4

New Cold Set (CS) (in.)	New Hot Set (HS) (in.)	New Stroke (in.)	Flip (Y/N)	Shroud Removed (Y/N)
N/A	N/A	4	N	N

Construction / DOC. Updater Note:

- "Flip" refers to whether or not the new snubber body is to be reversed from its original position.
- "Shroud Removed" refers to whether or not the new snubber housing is to be removed due to interference concerns.
- "Flip" and "Shroud Removed" condition may be changed, from what is specified, as long as it is properly documented (as-built) on this MD.
- Remove any design load information that appears on the drawing.

0	ORIGINAL ISSUE	<i>MCC</i> M. C. Chang 8-1-97	<i>ST</i> T. Nickerson 8-12-97		
REV. NO.	REVISION SUMMARY	PREPARED BY & DATE	PEER REVIEW & DATE	INSTALLED MCRs	INSTALLER & DATE

83691-4-4090

Design Report Summary

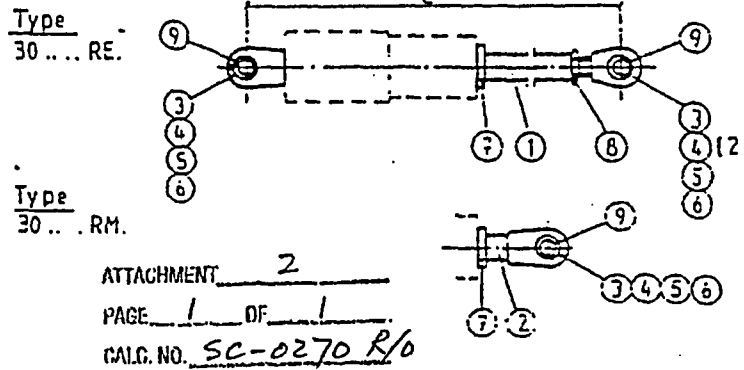
Load Capacity Data Sheet



Page 1 of 1

Type	Design Report No./Rev	Level A/B 80°C=176°F		Level D *) 150°C=302°F		Emax	
		(kN)	(lbs)	(kN)	(lbs)	(mm)	(Inch)
301856RE1/RM1 (1)	B 0689-4-3310 / 2	3	675	5.0	1120	850	33.4
301856RE2/RM2 (1)	B 0689-4-3310 / 2	3	675	5.0	1120	850	33.4
303856RE1/RM1 (1)	B 0690-4-3330 / 2	8	1800	12.6	2800	850	33.4
304256RE1/RM1 (1)	B 0691-4-3340 / 2	18	4000	28.5	6400	1290	50.8
305253RE1/RM1	B 0734-4-3352 / 2	46	10350	74.5	16700	1520	59.8
305253RE2/RM2	B 0734-4-3352 / 2	46	10350	74.5	16700	1520	59.8
306256RE1/RM1 (1)	B 0693-4-3360 / 0	100	22500	162.0	36400	2065	81.3
306256RE2/RM2 (1)	B 0693-4-3360 / 0	100	22500	162.0	36400	2065	81.3
307256RE1/RM1 (1)	B 0694-4-3370 / 0	200	44900	301.0	67600	2530	99.6
308256RE1/RM1 (1)	B 0695-4-3380 / 0	350	78700	588.0	132100	2515	99.0
309253RE1/RM1	B 0730-4-3392 / 1	550	123600	910	205000	2985	117.5

(1) - previous typedesignation without ..56.. (e.g.: Type 3018 RE1)



Level C = Level A x 1.33

*) Level D at 340°F for max. 6 hours by using ASME material. The allowable loads as specified in above table have to be reduced by 5%. (see Design Report No.: 84589-4-3000)

- Item 3 : Type 3018..
- Item 4 : Type 3018.. to 3038
- Item 5 : Type 3042.. to 3082
- Item 6 : Type 3092..

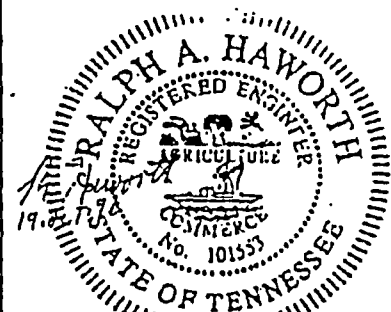
Snubber material see:
 DRS-no.: 83690-4-4090

Item	Material	Basic document	ASME reference Material
1	St 52-3 or St 52 / St52.0	DIN 17100 DIN 1629	SA 675 Gr.70/75 A 500 Gr.8 (code case N71-15)
2	X10Cr13	DIN 17440	SA 479TP410 (1m)/SA 182F6a Cl.2 (3)
3	St 52-3 or X10Cr13	DIN 17100 DIN 17440	SA 675 Gr.70/75 SA 479TP410 (1m)/SA 182F6a Cl.2 (3)
4	C 22.8	VdTVV 350/3	A 668 Cl.C (code case N249-11) (2)
5	Ck 45 V	SEW 550	A 668 Cl.F (code case N249-11)
6	42CrMo4 V or X10Cr13	SEW 550 DIN 17440	---
7	St 52-3	DIN 17100	SA 299 or SA 675 Gr.70/75
8	8 or 17H	DIN 267	Locknut exempt
9	100Cr6K5	DIN 267	Bushing exempt

Certification
 LISEGA certified mech. eng.
 Chief Eng. Design Department

J. Bernert
 J. Bernert

Professional Engineer



(2) - modified according to LISEGA - Spec. 122

(3) - modified according to LISEGA - Spec. 332

Linear elastic stress analysis (load cycles < 20000) test data for this product, performed in accordance with ASME Section III, Subsection NF, Class 1, are on file at LISEGA GmbH, Germany, 27404 Zeven. All ASME III Editions incl. Addenda from Ed.'74 to Ed.'95 are covered.

Rev.	Description	Date Established	Date Checked	Date Prof.Eng.
7	*)Level D at 340°F add.	15.03.96	16.02.96	17.02.96

Johnson, Alan A.

From: Brammeier, William E.
Sent: Friday, December 10, 2004 12:23 PM
To: Johnson, Alan A.; Barkhamer, John W.
Cc: Treston, William P.
Subject: Several follow-up items on the HPCI system!

The snubber extension on snubber FD-006-H020 was found to be bent 1/2"(0.546") and the Extension tube diameter was found to be 1 5/16" (1.329"). A tube thickness was not able to be taken of the extension tube as both ends are blocked by attachment hardware.

Hanger FD-006-H004 was found to be 20 5/8 from the wall at the top and 21 1/4 from the wall at the bottom, the strut is 6' 11 5/8" long. With as small an offset as found the strut meets the alignment of less than 3 degrees from acceptable alignment.

ATTACHMENT 3
PAGE 1 OF 2
CALC. NO. SC-0270 R/o

Chang, Clifton

From: Johnson, Alan A.
Sent: Monday, December 13, 2004 10:46 AM
To: Chang, Clifton
Subject: FW: Wall thickness of strut on 1-P-FD-006-H20

-----Original Message-----

From: Brammeler, William E.
Sent: Monday, December 13, 2004 8:31 AM
To: Johnson, Alan A.
Subject: RE: Wall thickness of strut on 1-P-FD-006-H20

ATTACHMENT 3
PAGE 2 OF 2
CALC. NO. SC-0270 R/O

Yes,
0.062 thick by UT.

-----Original Message-----

From: Johnson, Alan A.
Sent: Monday, December 13, 2004 8:28 AM
To: Brammeler, William E.
Cc: Chang, Clifton
Subject: Wall thickness of strut on 1-P-FD-006-H20

Bill,

Thank you for the fast response on wall thickness of the extension tube on 1-P-FD-006-H20. In your voice mail you gave me 0.062 inches as the wall thickness as measured by UT. Please respond to this email confirming the wall thickness.

Regards,

Alan Johnson
Civil Design Engineering Supervisor

FORM-1
 REGULATORY CHANGE PROCESS DETERMINATION

Document I.D.: SC-0270 Revision: 0
 Title: Bending evaluation of snubber for support 1 -P-FD-006-H20

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Activity Description:

Simply calculate the required concentrated load to cause the horizontal LISEGA snubber to reach the yield stress.

Note that more than one process may apply. If unsure of any answer, contact the cognizant department for guidance.

Activities Affected	Yes	No	Action
1. Does the proposed activity involve a change to the Technical Specifications or the Operating License?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If Yes, contact Licensing. See NOTE In Section 4.1.1 LCR No.
2. Does the proposed activity involve a change to the Quality Assurance Plan? <u>Examples:</u> • Changes to Chapter 17.2 of UFSAR	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If Yes, contact Quality Assessment.
3. Does the proposed activity involve a change to the Security Plan? <u>Examples:</u> • Change program in NC.NA-AP.ZZ-0033(Q) • Change indoor/outdoor security lighting • Placement of component or structure (permanent or temporary) within 20 feet of perimeter fence • Obstruct field of view from any manned post • Interfere with security monitoring device capability • Change access to any protected or vital area • Modify safeguards systems or equipment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If Yes, contact Security Department.
4. Does the proposed activity involve a change to the Emergency Plan? <u>Examples:</u> • Change ODCM/accident source term • Change liquid or gaseous effluent release path • Affect radiation monitoring instrumentation or EOP/AOP setpoints used in classifying accident severity • Affect emergency response facilities or personnel, including control room • Affect communications, computers, information systems or Met tower	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If Yes, contact Emergency Preparedness
5. Does the proposed activity involve a change to the ISI Program Plan? <u>Examples:</u> • Affect Nuclear Class 1, 2, or 3 Piping, Vessels, or Supports (Guidance in NC.CC-AP.ZZ-0007(Q))	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If Yes, contact Engineering Programs ISI/IST.

FORM-1
 REGULATORY CHANGE PROCESS DETERMINATION

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Title: Bending evaluation of snubber for support 1 -P-FD-006-H20

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Activities Affected	Yes	No	Action
6. Does the proposed activity involve a change to the IST Program Plan? Examples: <ul style="list-style-type: none"> Affect the design or operating parameters of a Nuclear Class 1, 2, or 3 Pump or Valve (Guidance in NC.CC-AP.ZZ-0007(Q)) 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If Yes, contact Engineering Programs ISI/IST.
7. Does the proposed activity involve a change to the Fire Protection Program? Examples: <ul style="list-style-type: none"> Change program in NC.DE-PS.ZZ-0001(Q) Change combustible loading of safety related space Change or affect fire detection system Change or affect fire suppression system/component Change fire doors, dampers, penetration seal or barriers See NC.CC-AP.ZZ-0007 for details 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If Yes, contact Design Engineering.
8. Does the proposed activity involve Maintenance which restores SSCs to their original design and configuration? Examples: <ul style="list-style-type: none"> CM or PM activity Implements an approved Design Change? Troubleshooting (which does not require 50.59 screen per SH.MD-AP.ZZ-0002) 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes, process in accordance with NC.WM-AP.ZZ-0001(Q)
9. Is the proposed activity a temporary change (T-Mod) which meets all the following conditions? <ul style="list-style-type: none"> Directly supports maintenance and is NOT a compensatory measure to ensure SSC operability. Will be in effect at power operation less than 90 days. Plant will be restored to design configuration upon completion. SSCs will NOT be operated in a manner that could impact the function or operability of a safety related or Important-to-Safety system. 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If Yes, contact Engineering.

FORM-1
 REGULATORY CHANGE PROCESS DETERMINATION

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Title: Bending evaluation of snubber for support 1 -P-FD-006-H20

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Activities Affected	Yes	No	Action
10. Does the proposed activity consist of changes to maintenance procedures which do NOT affect SSC design, performance, operation or control? Note: Procedure information affecting SSC design, performance, operation or control, including Tech Spec required surveillance and inspection, require 50.59 screening . Examples include acceptance criteria for valve stroke times or other SSC function, torque values, and types of materials (e.g., gaskets, elastomers, lubricants, etc.)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If Yes, process in accordance with NC.NA-AP.ZZ-0001(Q)
11. Does the proposed activity involve a <i>minor</i> UFSAR change (including documents incorporated by reference)? <u>Examples:</u> <ul style="list-style-type: none"> • Reformatting, simplification or clarifications that do not change the meaning or substance of information • Removes obsolete or redundant information or excessive detail • Corrects inconsistencies within the UFSAR • Minor correction of drawings (such as mislabeled ID) 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If Yes, process in accordance with NC.NA-AP.ZZ-0035(Q)
12. Does the proposed activity involve a change to an Administrative Procedure (NAP, SAP or DAP) governing the conduct of station operations? <u>Examples:</u> <ul style="list-style-type: none"> • Organization changes/position titles • Work control/ modification processes 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If Yes, process in accordance with NC.NA-AP.ZZ-0001(Q) and NC.DM-AP.ZZ-0001(Q)
13. Does the proposed activity involve a change to a regulatory commitment?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If Yes, contact Licensing.
14. Does the activity impact other programs controlled by regulations, operating license or Tech Spec? <u>Examples:</u> <ul style="list-style-type: none"> • Chemical Controls Program • NJ "Right-to-know" regulations • OSHA regulations • NJPDES Permit conditions • State and/or local building, electrical, plumbing, storm water management or "other" codes and standards • 10CFR20 occupational exposure 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If Yes, process in accordance with applicable procedures such as: NC.NA-AP.ZZ-0038(Q) NC.LR-AP.ZZ-0037(Q)

FORM-1
 REGULATORY CHANGE PROCESS DETERMINATION

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Activities Affected	Yes	No	Action
15. Does the proposed activity affect the Independent Spent Fuel Storage Installation (ISFSI) or the Dry Cask Storage System (DCSS)? <u>Examples:</u> <ul style="list-style-type: none"> • Affect the spent fuel canisters or casks • Affect the method of lifting, rigging or transporting DCSS • Challenge Spent Fuel Pool level or reactivity limits • Affect fire hazard analyses for the Heavy Haul Path • Affect procedures for DCSS operation or ISFSI activities 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If Yes, contact Licensing and initiate the 10CFR72.48 screening process per NC.NA-AS.ZZ-0041 (NAS-41).
16. Has the activity already received a 10CFR50.59 Screen or Evaluation under another process? <u>Examples:</u> <ul style="list-style-type: none"> • Calculation • Design Change Package or OWD change • Procedure for a Test or Experiment • DR/Nonconformance • Incorporation of previously approved UFSAR change 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Take credit for 10CFR50.59 Screen or Evaluation already performed. ID: _____

If any other program or regulation *may be* affected by the proposed activity, contact the department indicated for further review in accordance with the governing procedure. If responsible department determines their program is not affected, attach a written explanation.

If ALL of the answers on the previous pages are "No," then check A below:

A. [] None of the activity is controlled by any of the processes above, therefore a 10CFR50.59 review IS required. Complete a 10CFR50.59 screen.

If one or more of the answers on the previous pages are "Yes," then check either B or C below as appropriate and explain the regulatory processes which govern the change:

B. [X] All aspects of the activity are controlled by one or more of the processes above, therefore a 10CFR50.59 review IS NOT required.

C. [] Only part of the activity is controlled by the processes above, therefore a 10CFR50.59 review IS required. Complete a 50.59 screen.

Explanation: The analysis supports maintenance activities and is not a change to the Facility.

Preparer: M.C. CHANG Printed Name M. C. Chang Signature 12-13-04 Date
 Reviewer: T.M. Snyder (SEW) Printed Name T.M. Snyder Signature 12/13/04 Date