

R. Johnson PREPARED	11/10/80 DATE	COMBUSTION ENGINEERING, INC. Chattanooga Nuclear Operations COMPONENT ENGINEERING	SHEET 1 OF 26
Halliday CHECKED	11/19/80 DATE		CALC. NO. REC-705
			CONTRACT NO. 71570

TITLE: SO. CAL. PRESSURIZER - BRITTLE FRACTURE EVALUATION

1. ABSTRACT

THIS ANALYSIS PRESENTS AN EVALUATION OF THE PRESSURIZER WITH POSTULATED DEFECTS. THE METHOD OF LINEAR ELASTIC FRACTURE MECHANICS IS USED IN ACCORDANCE WITH APPENDIX G OF THE ASME CODE, SECTION III. ALLOWABLE PRESSURE VERSUS FLUID TEMPERATURE CURVES FOR HEATUP AND COOLDOWN ARE CALCULATED.

2. SIGNIFICANT RESULTS

THE ALLOWABLE PRESSURES FOR THE FLUID TEMPERATURES DURING HEATUP AND COOLDOWN ARE CALCULATED FOR EACH LOCATION WITH A HYPOTHETICAL DEFECT. A COMPOSITE CURVE FOR EACH TRANSIENT, SHOWING THE LOWEST ALLOWABLE PRESSURE FOR ALL LOCATIONS, IS GIVEN ON SHEETS 25 AND 26.

3. DISCUSSION OF ANALYSIS

THE METHOD OF LINEAR ELASTIC FRACTURE MECHANICS IS USED IN ACCORDANCE WITH APPENDIX G OF SECTION III OF THE ASME CODE (REF. 1) AND WRCB 175 (REF. 2) PROCEDURES. APPENDIX G GIVES THE ALLOWABLE REFERENCE CRITICAL STRESS INTENSITY FACTOR, K_{Ic} , AS A FUNCTION OF METAL TEMPERATURE AND NIL-DUCTILITY REFERENCE TEMPERATURE FOR FERRITIC MATERIALS. MODE I STRESS INTENSITY FACTORS, K_I , ARE CALCULATED WITH THE PROCEDURES IN REFS. 1 AND 2. THE FOLLOWING CRITICAL LOCATIONS ARE CONSIDERED:

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COMBUSTION ENGINEERING, INC. Chattanooga Nuclear Operations	SHEET 19 OF 26
	CALC. NO. PES-705
	CONTRACT NO. 71370

COMPONENT ENGINEERING

PRESSURIZER - BEUTLE FRACTURE EVALUATION

REVISED
DATE

MAJOR PENETRATIONS ARE EVALUATED
PROCEDURE DESCRIBED IN APPENDIX
CB-175 (REF. 2). THE PROCEDURE IS
TO ACCOUNT FOR THE EQUI-BIAXIAL
FIELD IN THE PRESSURIZER SPHERICAL
BY REPLACING THE FACTOR $F(\sigma/\sigma_n)$
IN REF 2 FOR A 2:1 BIAXIAL
FIELD, WITH AN EQUIVALENT FACTOR
EQUI-AXIAL FIELD. THIS EQUIVALENT
DESIGNATED $F_5(\sigma/\sigma_n)$, IS BASED ON
IN REF. 4.

DETAILS OF THE PROCEDURE ARE GIVEN
FOLLOWING SHEET.

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RE Robinson 10/6/8
PREPARED DATE

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CHECKED DATE

TITLE So. CAL. PES

5. DETAILED A
C. BOTTOM HE

LOCATION: Cu:
A = 1.9
B = 1.3
RT NOT =
P_{1,2} =

TRANSIENT	
TREF	KIR
50.	52.5
60.	56.5
70.	61.1
80.	66.5
90.	72.7
100.	79.8
110.	88.1
120.	97.7
130.	108.7
140.	121.5
150.	136.3

- Cm
- Cs
- Tmt
- Tbt
- ATmt + BTbt
- FACm + BCs

* Conservati

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AMENDMENT NO. 22

INTRODUCTION

Amendment No. 22 to the Final Safety Analyses Report for San Onofre Nuclear Generating Station Units 2 and 3 consists of insert pages for the FSAR, the Responses to NRC Questions, and the Responses to NRC Action Plan NUREG 0660. The insert pages provide:

1. Changes to FSAR text to amplify, update, or clarify the discussion: These are indicated by a change bar and the number "22" in the outside margin, and the date and amendment number placed at the bottom of the page. The date and amendment number at the bottom of the page are also used to indicate pages that are changed due to relocation of text to eliminate blank space.
2. Changes to FSAR text initiated by response to an NRC question, or amplification of the previous response: These are indicated by a change bar and the number "22" followed by the question number; e.g., 22-010.57 identifies a change in the FSAR initiated by NRC question number 010.57. NRC question numbers relating to fire hazards analysis are prefixed with the letters "FQ" for correlation with the Fire Hazards Analysis document.
3. Responses to NRC questions, or amplification of previous responses: These pages are to be inserted after the appropriate tab in the furnished binders entitled Responses to NRC Questions. The tabs correspond to the FSAR chapters and sections, and the questions and responses are segregated and paginated by the section referenced in the NRC question (Q&R 1.1-1 is the first page of section 1.1). The amendment number, date of issue, and page number appear at the bottom of each question and response (Q&R) page.
4. Response to NRC Action Plan NUREG 0660, clarification or amplification of previous responses: These pages are to be inserted after the appropriate tab in the previously provided binder entitled Response to NRC Action Plan NUREG 0660. The tabs correspond to action plan requirement numbers and individual pages also are identified by these numbers e.g., page II.B.1-2 is the second page of Requirement II.B.1 and its response.

When an insert page in the amendment has the same number as an existing page in the FSAR or Responses to NRC Questions, or Response to NUREG 0660, the existing page has been superseded and should be removed. When an insert page does not have the same number as an existing page, the insert page is new and should be placed in its proper location. The attached Lists of Effective Pages (for FSAR, Responses to NRC Questions, and Response to NUREG 0660,) should be used as guides when inserting this amendment.

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<u>Page or Figure No.</u>	<u>Issue</u>	<u>Page or Figure No.</u>	<u>Issue</u>
VOLUME 5 (Cont)		VOLUME 7	
2.5A-i/2.5A-ii	Original	Title Page (i/ii)	Original
2.5A-1 - 2.5A-15	Original	Foreword (iii/iv)	Amend 1
2.5A-16 - 2.5A-17	Amend 3	v-vii	Amend 10
2.5A-18 - 2.5A-195	Original	viii	Amend 18
		ix	Amend 21
		x	Amend 19
		xi - xii	Amend 18
		xiii	Amend 21
Title Page (i/ii)	Original	xiv	Amend 18
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v - vii	Amend 10	xvi - xvii	Amend 18
viii	Amend 18	xviii	Amend 22
ix	Amend 21	xix - xxi	Amend 18
x	Amend 19	2.5F Tab	Amend 17
xi - xii	Amend 18	Appx 2.5F Title Page	Amend 17
xiii	Amend 21	Title Page	Original
xiv	Amend 18	i-ii	Original
xv	Amend 21	1-40	Original
xvi - xvii	Amend 18	Table 1	Original
xviii	Amend 22	Figs. 1-10	Original
xix - xxi	Amend 18	2.5G Tab	Amend 17
2.5B Tab	Original	Appx 2.5G Title Page	Amend 17
Appx 2.5B Title Page	Original	Title Page	Original
2.5B-i/2.5B-ii	Original	i	Original
2.5B-1 - 2.5B-228	Original	1-16	Original
Fig. A-21	Original	Exhibit A	Original
2.5-231	Original	Exhibit B	Original
2.5C Tab	Original	Section A-B	Original
Appx 2.5C Title Page	Original	Section C-B	Original
2.5C-1	Original	Section D-E	Original
2.5C-2	Amend 3	Section F-G	Original
2.5C-3 - 2.5C-6	Original	Section H-G	Original
2.5D Tab	Original	2.5H Tab	Amend 17
Appx 2.5D Title Page	Original	Appx 2.5H Title Page	Amend 17
2.5D-1 - 2.5D-2	Original	Title Page	Original
2.5D-3	Amend 3	i	Original
2.5E Tab	Original	1-15	Original
Appx 2.5E Title Page	Original	Exhibit A-1	Original
2.5E-1 - 2.5E-24	Original	Exhibit B	Original
2.5E-A1 - 2.5E-A16	Original	Section A-B	Original
2.5E-B1 - 2.5E-B18	Original	Section B-C	Original
2.5E-C1 - 2.5E-C18	Original	Section D-E	Original
2.5E-D1 - 2.5E-D6	Original	Section G-H	Original
2.5E-E1 - 2.5E-E18	Original	Section I-J	Original
2.5E-F1 - 2.5E-F5	Original		

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Line No. 147	Original	3.2-9	Amend 8
Line No. 160	Original	3.2-10 - 3.2-11	Amend 13
		3.2-12	Amend 19
		3.2-13 - 3.2-14	Amend 8
		3.2-15 - 3.2-20	Amend 8
		3.2-21	Amend 13
		3.2-22 - 3.2-23	Amend 11
		3.2-24	Original
		3.2-25	Amend 6
		3.2-26	Original
		3.2-27	Amend 8
		3.2-28 - 3.2-29	Original
		3.2-30 - 3.2-33	Amend 13
		3.2-34	Amend 8
		3.2-35 - 3.2-37	Original
		3.2-38 - 3.2-41	Amend 8
		3.2-42 - 3.2-46	Original
		3.2-47	Amend 8
		3.2-48 - 3.2-49	Amend 13
		3.2-50 - 3.2-57	Amend 8
		3.2-58	Amend 13
		3.2-59	Original
		3.2-60	Amend 17
		3.2-61 - 3.2-66	Amend 8
		3.2-67	Amend 18
		3.2-68	Amend 21
		3.2-69 - 3.2-70	Amend 8
		3.3 Tab	Original
		3.3-1	Original
		3.3-2	Amend 2
		3.3-3 - 3.3-4	Amend 1
		3.4 Tab	Original
		3.4-1	Amend 6
		3.4-2	Amend 9
		3.4-3	Amend 17
		3.4-4 - 3.4-6	Amend 11
		3.4-6A - 3.4-6V	Amend 11
		3.4-7 - 3.4-7B	Amend 17
		3.4-8 - 3.4-14	Amend 9
		3.4-15 - 3.4-16B	Amend 17
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VOLUME 8			
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viii	Amend 18		
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xiii	Amend 21		
xiv	Amend 18		
xv	Amend 21		
xvi - xvii	Amend 18		
xviii	Amend 22		
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3-ii	Amend 10		
3-iii	Amend 6		
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3-viii	Amend 5		
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3.1 Tab	Original		
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3.2 Tab	Original		
3.2-1	Original		
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3.4-16E - 3.4-16F	Amend 17	3.6 Tab	Original
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3.4-18 - 3.4-19	Amend 17	3.6-2	Amend 21
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Fig 3.4-1	Original	3.6-28A - 3.6-28F	Amend 21
Fig. 3.4-2	Amend 17	3.6-29	Original
Fig 3.4-3	Amend 8	3.6-30 - 3.6-32	Amend 15
Fig 3.4-4 - 3.4-8	Amend 17	3.6-33 - 3.6-39	Original
Fig 3.4-9	Amend 8	3.6-40	Amend 2
Fig. 3.4-10	Amend 17	3.6-41	Amend 3
Fig. 3.4-11 - 3.4-12	Amend 8	3.6-42	Original
Fig 3.4-13	Amend 3	3.6-43	Amend 1
3.5 Tab	Original	Figures Tab	Original
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3.5-5 - 3.5-11B	Amend 11	Fig 3.6-2	Original
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3.5-21G (deleted)	Amend 20	Foreword (iii/iv)	Amend 1
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3.5-23 - 3.5-24	Original	viii	Amend 18
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3.5-26	Original	x	Amend 19
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3.5-37	Amend 1	xiv	Amend 18
3.5-38 - 3.5-44	Original	xv	Amend 21
3.5-45	Amend 1	xvi - xvii	Amend 18
3.5-46	Original	xviii	Amend 22
3.5-47	Amend 21	xix - xxi	Amend 18
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Fig 3.5-2 - 3.5-4 (deleted)	Amend 9	3.6A-2	Amend 13
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Fig 3.5-7 - 3.5-12	Amend 9	3.6A-13	Amend 3
Fig 3.5-13 (deleted)	Amend 9	3.6A-14 - 3.6A-15	Amend 13
3.5A Tab	Original	3.6A-16	Amend 7
Appx 3.5A Title Page (deleted)	Amend 9	3.6A-16A-3.6A-16B	Amend 13
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3.6A-22 - 3.6A-22A	Amend 13	3.7-55	Amend 19
3.6A-22B - 3.6A-22C	Amend 7	3.7-56	Amend 21
3.6A-22D	Amend 13	3.7-57	Amend 19
3.6A-23 - 3.6A-30	Amend 13	3.7-58	Amend 21
3.6A-31	Amend 10	3.7-59	Amend 19
3.6A-32 - 3.6A-37	Amend 11	3.7-60	Amend 21
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Fig 3.6A-20P - 3.6A-20Q	Amend 13	3.7-66 - 3.7-68	Original
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Fig 3.6A-40 - 3.6A-42	Amend 11	3.7-71B	Amend 19
3.6B Tab	Amend 6	3.7-72 - 3.7-75	Amend 14
Appx 3.6B Title Page	Amend 6	3.7-76	Amend 20
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3.6B-1 - 3.6B-8	Amend 13	3.7-94 - 3.7-97	Amend 21
3.7 Tab	Original	3.7-98	Amend 14
3.7-1 - 3.7-4	Original	3.7-99 - 3.7-101	Amend 21
3.7-5	Amend 6	3.7-102	Amend 14
3.7-5A - 3.7-5B	Amend 12	3.7-103	Amend 21
3.7-6 - 3.7-9	Amend 12	Figures Tab	Original
3.7-10	Amend 16	Fig 3.7-1 - 3.7-27	Original
3.7-11	Amend 12	Fig 3.7-28	Amend 19
3.7-12	Amend 16	Fig 3.7-29 - 3.7-32	Original
3.7-13 - 3.7-17	Original	Fig 3.7-33 - 3.7-34	Amend 14
3.7-17A - 3.7-17B	Amend 1	Fig 3.7-35	Original
3.7-17C - 3.7-17D	Amend 6	Fig 3.7-36 (deleted)	Amend 14
3.7-18 - 3.7-25	Original	Fig 3.7-37 - 3.7-38	Amend 14
3.7-26	Amend 1	Fig 3.7-39	Original
3.7-27 - 3.7-33	Amend 14	Fig 3.7-40 - 3.7-47(deleted)	Amend 14
3.7-34	Amend 21	Fig 3.7-48	Amend 1
3.7-35	Amend 14	Fig 3.7-49 - 3.7-51	Amend 6
3.7-36 - 3.7-36B	Amend 16	Fig 3.7-51A	Amend 11
3.7-37	Amend 21	Fig 3.7-52 - 3.7-53	Amend 6
3.7-38	Original	Fig 3.7-54 - 3.7-55	Amend 12
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Fig 3.7A-1 - 3.7A-101	Original	Fig E-1 - E-7	Original
VOLUME 10		3.7C-F1 - 3.7C-F8	Original
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Foreword (iii/iv)	Amend 1	3.7C-G1 - 3.7C-G6	Original
v - vii	Amend 10	Fig G-1 - G-2	Original
viii	Amend 18	Fig G-3a - G-3c	Original
ix	Amend 21	Fig G-4a - G-4c	Original
x	Amend 19	Fig G-5a - G-5c	Original
xi - xii	Amend 18	Fig G-6a - G-6c	Original
xiii	Amend 21	Fig G-7a - G-7c	Original
xiv	Amend 18	Fig G-8a - G-8b	Original
xv	Amend 21	Fig G-9a - G-9c	Original
xvi - xvii	Amend 18	Fig G-10	Original
xviii	Amend 22	3.7C-H1 - 3.7C-H3	Original
xix - xxi	Amend 18	Fig H-1	Original
3.7B Tab	Original	3.7C-H4 - 3.7C-H5	Original
Appx 3.7B Title Page	Original	3.7C-H6	Amend 14
3.7B-iii	Amend 11	Appx 3.7D Title Page	Amend 21
3.7B-iv - 3.7B-v	Original	3.7D-1 - 3.7D-2	Amend 21
3.7B-1 - 3.7B-2	Original	3.8 Tab	Original
3.7B-3	Amend 11	3.8-1 - 3.8-8	Original
3.7B-4 - 3.7B-10	Original	3.8-9	Amend 1
3.7B-11 - 3.7B-14	Amend 11	3.8-10	Amend 5
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Fig 3.7B-1 - 3.7B-4	Original	3.8-15 - 3.8-16	Amend 4
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3.7C-10	Amend 14	3.8-35	Amend 6
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3.8-56B	Amend 1	Fig 3.8-17 (4 Shts.)	Original
3.8-57 - 3.8-61	Original	Fig 3.8-18	Original
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3.8-63	Amend 21	Fig 3.8-20	Original
3.8-64	Amend 13	Fig 3.8-21 (2 Shts.)	Original
3.8-65 - 3.8-70	Original	Fig 3.8-22 (2 Shts.)	Original
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3.8-78	Amend 6	Fig 3.8-25 (4 of 4)	Original
3.8-79	Amend 21	Fig 3.8-26 (1 of 3)	Amend 17
3.8-79A - 3.8-79B	Amend 18	Fig 3.8-26 (2 of 3)	Original
3.8-80 - 3.8-88D	Amend 18	Fig 3.8-26 (3 of 3)	Amend 17
3.8-89 - 3.8-107	Original	Fig 3.8-27	Amend 17
3.8-108	Amend 19	Fig 3.8-28 (2 Shts.)	Original
3.8-109	Amend 12	Fig 3.8-29 - 3.8-30	Original
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3.8-121	Amend 14	Title Page (i/ii)	Original
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3.8-124	Amend 21	v-vii	Amend 10
Figures Tab	Original	viii	Amend 18
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Fig. 3.8-2 (2 Shts.)	Original	x	Amend 19
Fig 3.8-3 (1&2 of 3)	Original	xi-xii	Amend 18
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Fig 3.8-4 (1 of 2)	Amend 17	xiv	Amend 18
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Fig. 3.8-5 (3 Shts.)	Original	xvi-xvii	Amend 18
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Fig 3.8-11B (2 Shts.)	Amend 6	Fig 3.8-37	Original
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