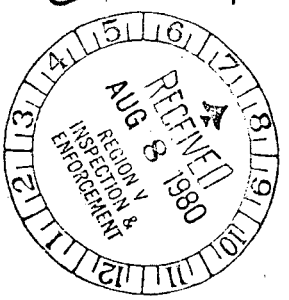
Central Files



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August 1, 1980

U. S. Nuclear Regulatory Commission
Region V
Walnut Creek Plaza, Suite 202
1990 North California Boulevard
Walnut Creek, California 95696

Attention Mr. R. H. Engelken, Director

Gentlemen:

Subject: IE Bulletin 79-03A
Docket Nos. 50-361 and 50-362
San Onofre Nuclear Generating Station
Units 2 and 3

The subject bulletin identifies potential problems associated with lack of weld penetration in SA-312 or A-312 Type 300 series fusion welded stainless steel pipe and requests specific information regarding use of this pipe at power reactor facilities. For those facilities with the subject piping already installed, the action required by the bulletin is limited to identifying the specific applications and providing information relative to the structural integrity of piping components.

It has been determined that the pipe spools and fittings listed in the enclosed table are the only piping components subjected to design stresses greater than 85 percent of the allowable stresses. All of the spools listed therein have already been installed for both Units 2 and 3. Therefore, the enclosed table identifies the specific applications and provides information relative to the structural integrity of those piping components. For clarity, the ratios of design stress to allowable stress identified in the enclosed table are based on; (1) the assumption that "design stress" refers to a "hoop stress", and (2) "actual wall thickness" is considered to be "nominal wall thickness" less twelve and one-half (12 1/2) percent mill tolerance.

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As such, should actual pipe wall thickness measurements be taken for those spools listed, the corresponding design to allowable stress ratios may be less than or equal to eighty five (85) percent.

Should you have any questions or require additional clarification, please contact me.

Very truly yours

K P Baskin

Enclosure

cc: NRC Office of Inspection and Enforcement
Division of Reactor Construction Inspection
Washington, D. C. 20555

R. Pate, USNRC
Site Inspector
San Onofre Units 2 and 3

SONGS Units 2 & 3 Piping Having Design Stresses Greater than 85% of Allowable Stress

System	Pipe Location	Pipe Size	Pipe Spool No.	Design Pressure (PSIG)	Design Temp. (F°)	Ratio: Design Stress/ Allowable Stress
Reactor Coolant	Containment	18"	S2/S3RC1201-017-S-002	435	400	87%
			S-003			
			S-004			
			S-005			
			S-006			
			S-007			
			S-008			
			S-009			
			S-010			
			S-015			
			S-016			
			S-017			
			S-018			
			S-020			
			S-021			
			S-022			
			S-023			
			S-024			
			S-025			
			S-026			
			S-027			
			S-028			

Sheets

SONGS Units 2 & 3 Piping Having Design Stresses Greater than 85% of Allowable Stress

System	Pipe Location	Pipe Size	Pipe Spool No.	Design Pressure (PSIG)	Design Temp. (F°)	Ratio: Design Stress/ Allowable Stress
Safety Injection	Safety Equip.	10"	S2/S3SI1204-034-S-002	615	400	92%
			S-003			
			S-004			
			S-005			
			S-006			
			S3SI1204-034-S-010			
			S2SI1204-034-S-009			
			S3SI1204-034-S-011			
		14"	S2/S3SI1204-035-S-001			95%
			S-002			
			S-003			
		14"	S2/S3SI1204-038-S-002			
			S-003			
			S-004			
			S-005			
			S-006			
			S-007			
			S-008			
			S-009			
			S-010			
			S-012			

S-013

SONGS Units 2 & 3 Piping Having Design Stresses Greater than 85% of Allowable Stress

System	Pipe Location	Pipe Size	Pipe Spool No.	Design Pressure (PSIG)	Design Temp. (F^{o})	Ratio: Design Stress/ Allowable Stress
Safety Injection	Safety Equip.	14"	S2/S3BI1204-038-S-014	615	400	95%
			S-015			
			S-016			
			S-017			
			S-018			
			S-019			
			S-020*			
			S-030			
			S-031			
			S-032			
			S-033			

SONGS Units 2 & 3 Piping Having Design Stresses
Greater than 85% of Allowable Stress

System	Pipe Location	Pipe Size	Pipe Spool No.	Design Pressure (PSIG)	Design Temp. (F°)	Ratio: Design Stress/ Allowable Stress
Safety Injection	Safety Equip.	14"	S2/S3SI1204-038-S-034	615	400	95%
			S-035			
			S-036			
			S-037			
			S-038			
			S-039*			
			S-040			
			S-046			
			S-047*			
			S-050			
			S-051			
			S-060			
		10"	S2/S3SI1204-038-S-021			
			S-022			
			S-023			
			S-024			
			S-025			
			S3SI1204-038-S-049			
Containment Spray		14"	S2/S3CS1206-027-S-001			
			S-002			
			S-005			
			S-007			
			S3CS1206-027-S-003			
			S-004			

SONGS Units 2 & 3 Piping Having Design Stresses
Greater than 85% of Allowable Stress

System	Pipe Location	Pipe Size	Pipe Spool No.	Design Pressure (PSIG)	Design Temp. (F°)	Ratio: Design Stress/ Allowable Stress
Containment Spray	Safety Equip.	12"	S2/S3CS1206-028-S-001	615	400	98%
			S-002			
			S-003			
			S2/S3CS1206-032-S-002			
			S-003			
			S2CS1206-032-S-004			
			S3CS1206-032-S-001			
			S2/S31206CS-033-S-001			
			S2/S31206CS-027-S-008			
			S-009			
			S2/S3CS1206-001-S-009			
			S-010			
			S2/S3CS1206-002-S-007			
			S2/S3CS1206-003-S-019			
			S-030			
			S2/S3CS1206-004-S-017			
			S-040			
			S-041			