

ARIZONA



PUBLIC SERVICE COMPANY

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October 1, 1980

ANPP-16463 - JMA/WFQ

DOCKET NOS 50-528, 529, 530

cc: J. M. Allen
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NRC Office of Inspection
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40/2

Mr. R. H. Engelken, Director
U.S. Nuclear Regulatory Commission
Region V
202 Walnut Creek Plaza
1990 N. California Boulevard
Suite 202, Walnut Creek Plaza
Walnut Creek, California 94596

Subject: NRC I&E Bulletin No. 79-03A
Longitudinal Weld Defects in ASME
SA-312, Type 304 Stainless Steel
Pipe
File: D.4.01.1

Dear Mr. Engelken:

We have reviewed NRC I&E Bulletin No. 79-03A and have identified that the spools and/or fittings listed in Enclosure 1 are the only piping components subject to design stresses which are greater than 85 percent of the allowable stress. As seen in the enclosure, none of the subject spools are fabricated from Youngstown pipe, and the ratio of design stress to allowable stress is only marginally over the NRC established value which would require inspection (86% vs. the NRC specified limit of 85%). The value of 86% is based on the assumption that the terminology "design stress", as used in Item 1 of the NRC Bulletin, means "hoop stress", and that "actual wall thickness" means "nominal wall thickness."

Based on the minimal difference between the actual ratio of design to allowable stress and that specified by the NRC (0.86 vs. 0.85), and the fact that no CLP was previously observed in the 17 ends of randomly selected pipe spools, we believe that it is not necessary to conduct an examination at PVNGS.

Please advise us if you have any further questions.

Very truly yours,

E.E. Van Brunt *av*

E. E. Van Brunt, Jr.
APS Vice President,
Nuclear Projects
ANPP Project Director

EEVBjr/WFQ/av
Attachment

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SYSTEM	PIPE LOCATION	PIPE SIZE	PIPE CONFIGURATION	DESIGN PRESSURE (PSIG)	DESIGN TEMP (F°)	MANUFACTURER	DESIGN STRESS ALLOW. STRESS
Safety Injection	Containment Building	14"	Pipe - Spool Nos.: 1-SI-159-S001 1-SI-159-S002 1-SI-178-S002 1-SI-222-S002 1-SI-206-S001 1-SI-222-S001 1-SI-178-S001 2-SI-222-S002 2-SI-206-S001 2-SI-222-S001 2-SI-222-S002 3-SI-206-S001 3-SI-222-S001	700	200	Trent Tube	0.36
		14"	Pipe - Spool Nos.: 2-SI-159-S001 2-SI-159-S002 2-SI-178-S002 2-SI-178-S001 3-SI-159-S001 3-SI-159-S002 3-SI-178-S002 3-SI-178-S001			Svepco	
		14"	90°, L.R. Ell.-Spool No.: 1-SI-159-S001 1-SI-159-S002 1-SI-178-S002 1-SI-206-S001 1-SI-222-S001 1-SI-178-S001			Flowline	

ENCLOSURE (1) PVNGS Pipe Spools With Design Stress > 85% of Allowable Stress

SYSTEM	PIPE LOCATION	PIPE SIZE	PIPE CONFIGURATION	DESIGN PRESSURE (PSIG)	DESIGN TEMP (F°)	MANUFACTURER	DESIGN STRESS ALLOW. STRESS
Safety Injection	Containment Building	14"	Pipe - Spool Nos.: 1-SI-159-S001 1-SI-159-S002 1-SI-178-S002 1-SI-222-S002 1-SI-206-S001 1-SI-222-S001 1-SI-178-S001 2-SI-222-S002 2-SI-206-S001 2-SI-222-S001 2-SI-222-S002 3-SI-206-S001 3-SI-222-S001	700	200	Trent Tube	0.86
		14"	Pipe - Spool Nos.: 2-SI-159-S001 2-SI-159-S002 2-SI-178-S002 2-SI-178-S001 3-SI-159-S001 3-SI-159-S002 3-SI-178-S002 3-SI-178-S001			Swepeco	
		14"	90°, L.R. Ell.-Spool No.: 1-SI-159-S001 1-SI-159-S002 1-SI-178-S002 1-SI-206-S001 1-SI-222-S001 1-SI-178-S001			Flowline	

ENCLOSURE (1) PVNCS Pipe Spools With Design Stress > 85% of Allowable Stress

