INSERVICE INSPECTION

PROGRAM SUMMARY MANUAL

PALO VERDE

NUCLEAR GENERATING STATION

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PALO VERDE

NUCLEAR GENERATING STATION

UNIT II

INSERVICE INSPECTION - PROGRAM SUMMARY

1.0 SUMMARY

This document contains a detailed description of the Inservice Inspection Program for Palo Verde Nuclear Generating Station, Unit II. This program conforms to the requirements of 10CFR50, Section 50.55a(g) and the PVNGS Technical Specifications. In addition, the information is presented in a form consistent with applicable requirements of Standard Review Plan Sections 5.2.4 and 6.6, and the recommendations contained in NRC letter dated July 17, 1981, from Mr. R. L. Tedesco, Assistant Director for Licensing, Division of Licensing; subject: Guidance for Preparing Preservice and Inservice Inspection Programs and Relief Requests-Palo Verde Nuclear Generating Units 1, 2 and 3.

2.0 CODE APPLICABILITY

Based on paragraph 10CFR50, 55a(b)(2) that was published 12 months prior to the scheduled date (12-9-85) of issuance of the operating license, the 1980 Edition through and including the Winter 1981 Addenda of ASME Section XI was utilized to prepare this program. In addition, and in accordance with paragraph 10CFR50.55a(b)(2)(iv)(A), the extent of Class 2 piping welds for the PVNGS Safety Injection System (RHR, ECCS, and CHR systems) was determined in accordance with the 1974 Edition through and including the Summer 1975 Addenda of ASME Section XI.

This program will be updated for each inspection interval to conform with the requirements of the latest edition and addenda of the ASME Section XI Code referenced in paragraph (b) of 10CFR50, Section 50.55a. When a code required examination is considered to be impractical, because of plant design or other conditions, a request for relief from that requirement will be prepared and included in the program at the beginning of that inspection interval (Section 9.0). If a code required examination is identified to be impractical during the course of an inspection, a request for relief will be prepared and submitted with the next revision to the program.

3.0 DESCRIPTION

3.1 SCOPE

3.1.1 This Inservice Inspection - Program Summary includes all applicable nondestructive examinations as required by ASME Section XI and those identified in the PVNGS Technical specifications as identified below:

1. Examination of ASME Class 1,2 and 3 pressure retaining components and their supports.

2. Examination of the Reactor Coolant Pump Flywheels in accordance with PVNGS Technical Specifications Section 3/4.4.9.

3. Augmented high energy piping examinations in accordance with PVNGS FSAR Section 6.6.8.

4. Augmented examinations of CHR, RHR, and ECCS piping in accordance with 10CFR50.55a.

5. Special examinations to satisfy other commitments or concerns that are based on operating experiences, USNRC Circulars, Information Notices, or Bulletins, Combustion Engineering bulletins, INPO Reports, and etc. These examinations are scheduled throughout this program and reference the applicable notification documents.

3.1.2 Those items that would generally be included in an Inservice Inspection program, but are not included are indentified below:

1. The inservice testing of snubbers will be performed in accordance with the PVNGS Technical Specifications Section 3/4.7.9.

   Note: Request for Relief #1 in Section 9.0.

2. The pump and valve testing program is contained and submitted under a separate cover.

3.2 SYSTEM BOUNDARIES

A complete set of Inservice Inspection Boundary drawings was included in Section 10.0 of the Unit 1 Program submittal (Letter #ANPP-33266-EEVB/KLM dated 8-26-85). Please refer to these drawings for definition of the ASME Class 1, 2 and 3 systems, components and boundaries scheduled for examinations and pressure testing.

3.3 ACCESSIBILITY

The preservice examinations were performed with examination techniques, both automated and manual, similar to those planned for use for Inservice Inspection. The examination limitations noted during the preservice examinations were documented in requests for relief submitted with the preservice examination program. There have been no additional limitations noted during the formulation of this program.

All items that are scheduled for examination will be examined to the extent practical. In addition, any limitations that are noted during the examinations will be documented in the summary reports that are prepared after each outage.

3.4 EXAMINATION TECHNIQUES

The three (3) types of examinations utilized to perform Inservice Inspections, along with the actual nondestructive examination technique, are identified in the legend below:

VT - Visual	;	VT - 1 (General Condition) VT - 2 (Leakage) VT - 3 (Structural Condition) VT - 4 (Operability)
S - Surface	;	PT - Liquid Penetrant MT - Magnetic Particle ET - Eddy Current
VOL - Volumetric	;	UT - Ultrasonic RT - Radiographic

All the above nondestructive examination methods will be performed using specific techniques and procedures that are identified in ASME Section XI, or alternative examinations that are demonstrated to be equivalent or superior to those identified.

3.5 INSPECTION INTERVALS

The Inservice Inspection Program was prepared in accordance with Program B of ASME Section XI. The initial 10 year inspection interval and corresponding inspection periods are defined below (from the anticipated commercial service date of 8/31/86):

First Inspection Interval: 8-31-86 to 8-30-96
Period One: 8-31-86 to 12-30-89
Period Two: 12-31-89 to 4-30-93
Period Three: 5-1-93 to 8-31-96

3.6 EXAMINATION CATEGORIES

The examination categories of ASME Section XI were utilized to develop this program for all systems, components, and supports. The Program summary tables contained in Section 4.0 and 5.0 are organized by examination category for ASME Class 1 and 2 systems respectively. For each examination category, these tables identify the system, line number or serial number, nondestructive examination method, total number of items, the required examination amount for each inspection period, and the running percentage. For ASME Class 3 systems, the examination categories are identified in Section 6.0.

3.7 EVALUATION AND REPAIR

The evaluation of all examination results will be performed in accordance with ASME Section XI Articles IWA and IWB-3000. In addition, all applicable repairs and replacements will be performed in accordance with ASME Section XI Articles IWA, IWB, IWC, IWD and IWF-4000 and 7000. Both the evaluation and repair or replacement will be performed in accordance with the 1980 Edition through and including the Winter 1981 Addenda of ASME Section XI, or later editions and addenda of ASME Section XI referenced in 10CFR50. These will also be summarized in the report prepared after each refueling outage in accordance with ASME Section XI.

3.8 SYSTEM PRESSURE TESTS

System pressure tests will be performed in accordance with ASME Section XI and as identified in Sections 4.0, 5.0, and 6.0 for ASME Class 1, 2 and 3 respectively. These tables also identify the type of pressure test, the test frequency, any applicable requests for relief, and references the appropriate ASME Section XI Article for each of the ASME Code Classes.

3.9 AUGMENTED HIGH ENERGY PIPING

Based on the PVNGS FSAR, an augmented examination is required for protection against postulated pipe failures. This augmented examination program includes the following high energy piping systems located between the containment penetration and the main steam support structure wall:

Main Steam
Feedwater
Steam Generator Blowdown
Downcomer Feedwater

The summary tables in Section 7.0 identifies each system, along with the required examination amounts, and frequencies. As shown by this table, a volumetric examination of all longitudinal and and circumferential welds is scheduled. These welds will be examined to the maximum extent practical. Any limitations to the examinations will be included and documented in the summary report prepared in accordance with ASME Section XI after each refueling outage.

3.10 EXEMPTIONS

The exemption criteria identified in the 1980 Edition through and including the Winter 1981 Addenda of ASME Section XI was utilized for all ASME Class 1, 2 and 3 components and systems. This includes the PVNGS Safety Injection System (RHR, ECCS, and CHR systems) piping and components, even though 10CFR50.55a requires the 1974 Edition through and including the Summer 1975 Addenda be utilized. It was concluded after a detailed review that the exemption criteria identified in the Winter 1981 Addenda was more conservative in every case than those identified in the Summer 1975 Addenda, and more examinations would therefore be performed on Safety Injection systems piping and components.

A thorough review of all the systems and components was performed in accordance with the above exemptions and a complete set of color coded Inservice Inspection Boundary drawings was prepared. These drawings are maintained at the PVNGS site for review.

SECTION 4.0

ASME CLASS I

EXAMINATION SUMMARY

INDEX

TABLE	EXAM CATEGORY	
1-1	B-A,	Pressure retaining welds in reactor vessel
1-2	B-B,	Pressure retaining welds in vessels other than reactor vessels
1-3	B-D,	Full penetration welds of nozzles in vessels - Inspection Program B
1-4	B-E,	Pressure retaining partial penetration welds in vessels
1-5	B-F,	Pressure retaining dissimilar metal welds
1-6	B-G-1,	Pressure retaining bolting, greater than 2 in. in diameter
1-7	B-G-2,	Pressure retaining bolting, 2 in. and less in diameter
1-8	B-H,	Integral attachments for vessels
1-9	B-J,	Pressure retaining welds in piping
1-10	B-K-1,	Integral attachments for piping, pumps and valves
1-12	B-L-1 & B-M-1,	Pressure retaining welds in pump casings and valve bodies and
	B-L-2 & B-M-2,	Pump casings and valve bodies
1-13	B-N-1,	Interior of reactor vessel
	B-N-2,	Integrally welded core support structures and interior attachments to reactor vessels
	B-N-3,	Removable core support structures
1-14	B-O,	Pressure retaining welds in control rod housings
1-15	B-P,	All pressure retaining components
1-16	B-Q,	Steam generator tubing
1-IWF	F-A,	Plate and shell type supports
	F-B,	Linear type supports
	F-C,	Component standard support
1-RCP	N/A,	Reactor coolant pump flywheel examinations Reg. Guide 1.14

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

1-1
TABLE 1 2
PAGE ____ OF ____

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
B100	EXAM CATEGORY B-A; PRESSURE RETAINING WELDS IN REACTOR VESSEL								
110	SHELL WELDS								AUTOMATED
111	CIRCUMFERENTIAL								EXAM CORE
	1-Reactor Vessel	Butt Welds	SN 79173	Vol	3	0	One	0	BARREL
						0	Two	0	REMOVED
						3	Three	100	
112	LONGITUDINAL								
	1-Reactor Vessel	Butt Welds	SN 79173	Vol	9	0	One	0	AUTOMATED
						0	Two	0	EXAM CORE
						9	Three	100	BARREL REMOVED
120	HEAD WELDS								
121	CIRCUMFERENTIAL	None	-	-	-	-	-	-	
122	MERIDIONAL								
	1-Reactor Vessel Bottom Head	Butt Weld	SN 79173	Vol	1	0	One	0	AUTOMATED
						0	Two	0	EXAM CORE
						1	Three	100	BARREL REMOVED. EXAMINE ENTIRE ACCESSIBLE LENGTH
	2-Closure Head	Butt Weld	SN 79173	Vol	1	33%	One	33	EXAMINE
						33%	Two	66	ENTIRE
						34%	Three	100	ACCESSIBLE LENGTH
130	SHELL-TO-FLANGE WELD								
	1-Reactor Vessel	Butt Weld	SN 79173	Vol	1	50%*	One	50	*EXAM FROM
						0	Two	50	FLANGE
						100%**	Three	100	MATING SURFACE.
									**AUTOMATED EXAM CORE BARREL REMOVED

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

1-1

TABLE 2 2

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ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
140	HEAD-TO-FLANGE WELD 2-Closure Head	Butt Weld	SN 79173	Vol, S	1	33% 33% 34%	One Two Three	33 66 100	
150 151	REPAIR WELDS BELTLINE REGION	None	-	-	-	-	-	-	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-2

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
B200	EXAM CATEGORY B-B; PRESSURE RETAINING WELDS IN VESSELS OTHER THAN REACTOR VESSELS								
	PRESSURIZER								
210	SHELL-TO HEAD WELDS								*1 FOOT MIN. OF EACH LONG WELD THAT INTER-SECTS THE SCHEDULED CIRC. WELDS WILL BE EXAMINED.
211	CIRCUMFERENTIAL AND								
212	* LONGITUDINAL								
	5-Pressurizer Shell to Bottom Head	Butt Weld	SN 79373	Vol	1	33% 33% 34%	One Two Three	33 66 100	
	5-Pressurizer Shell to Top Head	Butt Weld	SN 79373	Vol	1	33% 33% 34%	One Two Three	33 66 100	
220	HEAD WELDS	None	-	-	-	-	-	-	
221	CIRCUMFERENTIAL	None	-	-	-	-	-	-	
222	MERIDIONAL	None	-	-	-	-	-	-	
	STEAM GENERATORS								
230	HEAD WELDS								
231	CIRCUMFERENTIAL								
	3-Steam Generator 1	Butt Welds	SN 79273-1	Vol	4	1 1 2**	One Two Three	25 50 100	**STAY-CYLINDER EXAMS
	4-Steam Generator 2	Butt Welds	SN 79273-2	Vol	4	1 1 2**	One Two Three	25 50 100	**STAY-CYLINDER EXAMS
232	MERIDIONAL								
	3-Steam Generator 1	Butt Welds	SN 79273-1	Vol	6	4 1 1	One Two Three	66 83 100	
	4-Steam Generator 2	Butt Welds	SN 79273-2	Vol	6	0 5 1	One Two Three	- 83 100	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-2

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
240	TUBESHEET TO HEAD								
	3-Steam Generator 1	Butt Welds	SN 79273-1	Vol	2	1 0 1*	One Two Three	50 50 100	*STAY-CYLINDER EXAMS
	4-Steam Generator 2	Butt Welds	SN 79273-2	Vol	2	0 1 1*	One Two Three	- 50 100	
	HEAT EXCHANGERS								
250	HEAD WELDS	None	-	-	-	-	-	-	
251	CIRCUMFERENTIAL	None	-	-	-	-	-	-	
252	MERIDIONAL	None	-	-	-	-	-	-	
253	LONGITUDINAL								
260	-TUBESHEET-TO-SHELL (OR HEAD) WELDS	None	-	-	-	-	-	-	
261	TUBESHEET-TO-SHELL	None	-	-	-	-	-	-	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-3
PAGE 1 OF 2

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
B300	EXAM. CATEGORY B-D; FULL PENETRATION WELDS OF NOZZLES IN VESSELS-INSPECTION PROGRAM B								
390 & 3100	REACTOR VESSEL NOZZLE-TO-VESSEL WELDS AND NOZZLE INSIDE RADIUS SECTION								
	1-Reactor Vessel	Outlets-2 Inlets-4	SN 79173	Vol	6	2 0 4*	One Two Three	33 33 100	*AUTOMATED EXAMS FROM SHELL SIDE WITH CORE BARREL REMOVED
3110 & 3120	PRESSURIZER NOZZLE-TO-VESSEL WELDS AND NOZZLE INSIDE RADIUS SECTION								
	5-Pressurizer	Surge-1 Spray-1 Safeties-4	SN-79373	Vol	6	2 2 2	One Two Three	33 66 100	REQUEST FOR RELIEF #2
3130 & 3140	STEAM GENERATORS NOZZLE-TO-VESSEL WELDS AND NOZZLE INSIDE RADIUS SECTION								REQUEST FOR RELIEF #2
	3-Steam Generator 1	Inlet-1 Outlet-2	SN 79273-1	Vol	3	1 1 1	One Two Three	33 66 100	
	4-Steam Generator 2	Inlet-1 Outlet-2	SN 79273-2	Vol	3	1 1 1	One Two Three	33 66 100	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-3
PAGE 2 OF 2

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
	HEAT EXCHANGERS	None	-	-	-	-	-	-	
3150	NOZZLE-TO-VESSEL WELDS	None	-	-	-	-	-	-	
&	AND								
3160	NOZZLE INSIDE RADIUS SECTION	None	-	-	-	-	-	-	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-4

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
B400	EXAM CATEGORY B-E: PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS								ALL EXAMS PERFORMED IN CONJUNCTION WITH EXAM CATEcory B-P
410	PARTIAL PENETRATION WELDS								
411	VESSEL NOZZLES	None	-	-	-	-	-	-	
412	CONTROL ROD DRIVE NOZZLES								
	Reactor Vessel Closure Head	CEDM Nozzles	SN79173	VT-2	97	8 8 9	One Two Three	8 16 26	
413	INSTRUMENT NOZZLES								
	Reactor Vessel	Bottom Head	SN 79173	VT-2	61	5 5 6	One Two Three	8 16 26	
420	PRESSURIZER HEATER PENETRATION WELDS	Bottom Head	SN 79373	VT-2	36	3 3 3	One Two Three	8 17 25	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-5
PAGE 1 OF 2

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
B500	EXAM CATEGORY B-F; PRESSURE RETAINING DISSIMILAR METAL WELDS								
510	REACTOR VESSEL NOMINAL PIPE SIZE ≥4 IN. NOZZLE TO SAFE END BUTT WELDS	None	-	-	-	-	-	-	
520	NOMINAL PIPE SIZE <4 IN. NOZZLE TO SAFE END BUTT WELDS	None	-	-	-	-	-	-	
530	NOZZLE TO SAFE END SOCKET WELDS	None	-	-	-	-	-	-	
540	PRESSURIZER NOMINAL PIPE SIZE ≥4 IN. NOZZLE TO SAFE END BUTT WELDS								
	20-Surge	Buttwelds	RC-28-12"	S,Vol	6	2	One	33	*RT SUPPLEMENTAL EXAM FOR THERMAL SLEEVE INTEGRITY (NOTE 1EIN 82-09).
	29-Spray*	Buttwelds	RC-18-4"			2	Two	66	
	31-Safeties (4)	Buttwelds	RC-1-6" RC-3-6" RC-5-6" RC-7-6"			2	Three	100	
550	NOMINAL PIPE SIZE <4 IN. NOZZLE TO SAFE END BUTT WELDS	None	-	-	-	-	-	-	
560	NOZZLE TO SAFE END SOCKET WELDS	None	-	-	-	-	-	-	
570	STEAM GENERATOR NOMINAL PIPE SIZE ≥4 IN. NOZZLE TO SAFE END BUTT WELDS	None	-	-	-	-	-	-	
580	NOMINAL PIPE SIZE <4 IN. NOZZLE TO SAFE END BUTT WELDS	None	-	-	-	-	-	-	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-5

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
590	NOZZLE TO SAFE END SOCKET WELDS	None	-	-	-	-	-	-	
5100	HEAT EXCHANGERS NOMINAL PIPE SIZE ≥4 IN. NOZZLE TO SAFE END BUTT WELDS	None	-	-	-	-	-	-	
5110	NOMINAL PIPE SIZE <4 IN. NOZZLE TO SAFE END BUTT WELDS	None	-	-	-	-	-	-	
5120	NOZZLE TO SAFE END SOCKET WELDS	None	-	-	-	-	-	-	
5130	PIPING NOMINAL PIPE SIZE ≥4 IN. DISSIMILAR METAL BUTT WELDS								
	20-PZR Surge	Buttweld	RC-28-12"	S,Vol	1	1	Three	-	
	21-SD Cooling 1	Buttweld	RC-51-16"	S,Vol	1	1	One	-	
	22-SD Cooling 2	Buttweld	RC-68-16"	S,Vol	1	1	Two	-	
	23-Safety Inj 1A	Buttweld	SI-207-14"	S,Vol	1	1	One		ITEMS B5.130 & B5.140 SYSTEMS COMBINED FOR PERCENTAGE
	24-Safety Inj 1B	Buttweld	SI-223-14"	S,Vol	1	1	Two		
	25-Safety Inj 2A	Buttweld	SI-160-14"	S,Vol	1	1	Three	-	
	26-Safety Inj 2B	Buttweld	SI-179-14"	S,Vol	1	1	Three		
5140	NOMINAL PIPE SIZE <4 IN. DISSIMILAR METAL BUTT WELDS								
	27-PZR Spray 1A	Buttweld	RC-62-3"	S	1	1	One	-	
	28-PZR Spray 1B	Buttweld	RC-18-3"	S	1	1	Two	-	
	32-Drain 1A	Buttweld	RC-60-2"	S	1	1	One	28	
	33-Drain 1B	Buttweld	RC-58-2"	S	1	1	Two	-	*RT SUPPLEMENTAL EXAM FOR THERMAL SLEEVE INTEGRITY (NOTE 1EIN 82-09).
	34-Drain 2A	Buttweld	RC-96-2"	S	1	1	Two	-	
	36-Letdown	Buttweld	RC-91-2"	S	1	1	Three	100	
	37-Charging*	Buttweld	CH-5-3"	S	1	1	Two	64	
5150	DISSIMILAR METAL SOCKET WELDS	None	-	-	-	-	-	-	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

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ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
B600	EXAM CATEGORY B-G-1; PRESSURE RETAINING BOLTING GREATER THAN 2 IN. IN DIAMETER								
610	REACTOR VESSEL CLOSURE HEAD NUTS								
	2-Closure Head	Nuts	7.237" x 7.91"	S	54	18 18 18	One Two Three	33 66 100	
620	CLOSURE STUDS, IN PLACE	None*	-	-	-	-	-	-	*STUDS WILL BE REMOVED FOR EXAMINATION
630	CLOSURE STUDS, WHEN REMOVED								
	2-Closure Head	Studs	7.380" x 76.37"	S,Vol	54	18 18 18	One Two Three	33 66 100	
640	THREADS IN FLANGE								
	1-Reactor Vessel	Flange Ligaments	SN 79173	Vol	54	0 0 54	One Two Three	0 0 100	
650	CLOSURE WASHERS, BUSHINGS								
	1-Reactor Vessel	Washers	7.50"x1.27"	VT-1	54	18 18 18	One Two Three	33 66 100	
660	PRESSURIZER BOLTS AND STUDS	None	-	-	-	-	-	-	
670	FLANGE SURFACE, WHEN CONNECTION DISASSEMBLED	None	-	-	-	-	-	-	
680	NUTS, BUSHINGS, AND WASHERS	None	-	-	-	-	-	-	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-6

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
	STEAM GENERATORS								
690	BOLTS AND STUDS	None	-	-	-	-	-	-	
6100	FLANGE SURFACE, WHEN CONNECTION DISASSEMBLED	None	-	-	-	-	-	-	
6110	NUTS, BUSHINGS, AND WASHERS	None	-	-	-	-	-	-	
	HEAT EXCHANGERS								
6120	BOLTS AND STUDS	None	-	-	-	-	-	-	
6130	FLANGE SURFACE, WHEN CONNECTION DISASSEMBLED	None	-	-	-	-	-	-	
6140	NUTS, BUSHINGS, AND WASHERS	None	-	-	-	-	-	-	
	PIPING								
6150	BOLTS AND STUDS	None	-	-	-	-	-	-	
6160	FLANGE SURFACE, WHEN CONNECTION DISASSEMBLED	None	-	-	-	-	-	-	
6170	NUTS, BUSHINGS, AND WASHERS	None	-	-	-	-	-	-	
	PUMPS								
6180	BOLTS AND STUDS**								*A SUPPLEMENTAL VT-1 EXAM WILL BE PERFORMED 100% PER REFUELING OUTAGE (SEE IEIN 80-27) ** A SUPPLEMENTAL SURFACE EXAM WILL BE PERFORMED WHEN REMOVED (SEE IEB 82-02)
	16-Reactor Coolant Pump 1A	Flange Studs	4.33" x 32.87"	Vol*	16	5 5 6	One Two Three	31 62 100	
	17-Reactor Coolant Pump 1B	Flange Studs	4.33" x 32.87"	Vol*	16	5 5 6	One Two Three	31 62 100	
	18-Reactor Coolant Pump 2A	Flange Studs	4.33" x 32.87"	Vol*	16	5 5 6	One Two Three	31 62 100	
	19-Reactor Coolant Pump 2B	Flange Studs	4.33" x 32.87"	Vol*	16	5 5 6	One Two Three	31 62 100	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-6

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
6190	FLANGE SURFACE, WHEN CONNECTION DISSAS-SEMBLED								
	16, 17, 18 and 19-Reactor Coolant Pumps 1A,1B,2A & 2B	Flange Surface	CASING SN 1A - 1255 1B - 1257 2A - 1256 2B - 1258	VT-1	16 per Pump	* * *	One Two Three	* * *	*100% EXAM WHEN DIS-ASSEMBLED THERE ARE NO BUSHINGS IN THE PUMP FLANGES
6200	NUTS, BUSHINGS AND WASHERS**								
	16-Reactor Coolant Pump 1A	Nuts &: Clamping Ring	4.528"x 7.283"	VT-1	16	5 5 6	One Two Three	31 62 100	** THE CLAMPING RING WILL BE EXAMINED (THERE ARE NO WASHERS)
	17-Reactor Coolant Pump 1B	Nuts &: Clamping Ring	4.528"x 7.283"	VT-1	16	5 5 6	One Two Three	31 62 100	
	18-Reactor Coolant Pump 2A	Nuts &: Clamping Ring	4.528"x 7.283"	VT-1	16	5 5 6	One Two Three	31 62 100	
	19-Reactor Coolant Pump 2B	Nuts &: Clamping Ring	4.528"x 7.283"	VT-1	16	5 5 6	One Two Three	31 62 100	
	VALVES								
6210	BOLTS AND STUDS	None	-	-	-	-	-	-	
6220	FLANGE SURFACE, WHEN CONNECTION DISAS-SEMBLED	None	-	-	-	-	-	-	
6230	NUTS, BUSHINGS, AND WASHERS	None	-	-	-	-	-	-	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-7

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
B700	EXAM. CATEGORY B-G-2; PRESSURE RETAINING BOLTING 2 IN. AND LESS IN DIAMETER								
710	REACTOR VESSEL BOLTS, STUDS AND NUTS	None							
720	PRESSURIZER BOLTS, STUDS AND NUTS								
	5-PZR Manway	Studs & Nuts	1.5"x14.5"	VT-1	*20 Pairs	20 20 20	One Two Three	100 100 100	*SUPPLEMENTED BY SURFACE EXAMS WHEN REMOVED (SEE IEB 82-02)
730	STEAM GENERATORS BOLTS, STUDS AND NUTS								
	3-Steam Generator 1 Cold Leg and Hot Leg Manways	Studs & Nuts	1.5"x14.5"	VT-1	*40 Pairs	40 40 40	One Two Three	100 100 100	
	4-Steam Generator 2 Cold Leg and Hot Leg Manways	Studs & Nuts	1.5"x14.5"	VT-1	*40 Pairs	40 40 40	One Two Three	100 100 100	
740	HEAT EXCHANGERS	None							
750	PIPING BOLTS, STUDS AND NUTS								
	31-PZR Safeties	Flange Flange Flange Flange	RC-1-6" RC-3-6" RC-5-6" RC-7-6"	VT-1	*4	1 1 2	One Two Three	25 50 100	
	37-Charging Line	Flange	CH-5-3"	VT-1	1	1 0 0	One Two Three	100 100 100	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-7
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ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
760	PUMPS BOLTS, STUDS AND NUTS								
	16-Reactor Coolant Pump 1A Seal Cover Bolting	Seal Cover Studs & Nuts	1.5" x 8.27"	VT-1	16	5 5 6	One Two Three	31 62 100	
	17-Reactor Coolant Pump 1B Seal Cover Bolting	Seal Cover Studs & Nuts	1.5" x 8.27"	VT-1	16	5 5 6	One Two Three	31 62 100	
	18-Reactor Coolant Pump 2A Seal Cover Bolting	Seal Cover Studs & Nuts	1.5" x 8.27"	VT-1	16	5 5 6	One Two Three	31 62 100	
	19-Reactor Coolant Pump 2B Seal Cover Bolting	Seal Cover Studs & Nuts	1.5" x 8.27"	VT-1	16	5 5 6	One Two Three	31 62 100	
770	VALVES BOLTS, STUDS AND NUTS								
	21-SD Cooling Loop 1	UV-651 UV-653	RC-051-16" SI-240-16"	VT-1	2	1 0 1	One Two Three	50 50 100	
	22-SD Cooling Loop 2	UV-652 UV-654	RC-068-16" SI-193-16"	VT-1	2	1 1 0	One Two Three	50 100 100	
	23-SI Loop 1A	V-235 UV-634 V-237 V-542	SI-207-14" SI-207-14" SI-207-14" SI-203-12"	VT-1	4	1 2 1	One Two Three	25 75 100	
	24-SI Loop 1B	V-245 UV-644 V-247 V-543	SI-223-14" SI-223-14" SI-223-14" SI-221-12"	VT-1	4	1 2 1	One Two Three	25 75 100	
	25-SI Loop 2A	V-215 UV-614 V-217 V-540	SI-160-14" SI-160-14" SI-160-14" SI-156-12"	VT-1	4	1 1 2	One Two Three	25 50 100	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-7
PAGE 3 OF 4

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
770	CONTINUED								
	26-SI Loop 2B	V-225 UV-624 V-227 V-541	SI-179-14" SI-179-14" SI-179-14" SI-175-12"	VT-1	4	1 2 1	One Two Three	25 75 100	
	27-PZR Spray Loop 1A	V-240 PV-100E V-243	RC-62-3" RC-62-3" RC-16-3"	VT-1	3	0 1 2	One Two Three	0 33 100	
	28-PZR Spray Loop 1B	V-241 PV-100F V-242	RC-17-3" RC-17-3" RC-18-3"	VT-1	3	2 1 -	One Two Three	66 100 -	
	29 Combined PZR Spray	V-244	RC-18-4"	VT-1	1	0 0 1	One Two Three	0 0 100	
	31-PZR Safeties	PSV-200 PSV-201 PSV-202 PSV-203	RC-1-6" RC-3-6" RC-5-6" RC-7-6"	VT-1	4	1 1 2	One Two Three	25 50 100	
	32-Drain Line Loop 1A	V-334 V-234	RC-60-2" RC-60-2"	VT-1	2	2 0 0	One Two Three	100 100 100	
	33-Drain Line Loop 1B	V-335 V-235	RC-58-2" RC-58-2"	VT-1	2	0 2 0	One Two Three	0 100 100	
	34-Drain Line Loop 2A	V-333 V-233	RC-96-2" RC-96-2"	VT-1	2	0 2 0	One Two Three	0 100 100	
	35-Drain Line Loop 2B	V-332 V-232	RC-89-2" RC-89-2"	VT-1	2	0 0 2	One Two Three	0 0 100	
	36-Letdown Line	UV-515 UV-516	RC-91-2" CH-1-2"	VT-1	2	0 0 2	One Two Three	0 0 100	
	37-Charging Line	V-433 PDV-240	CH-5-3" CH-5-3"	VT-1	3	1 0 1	One Two Three	50 50 100	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-7
PAGE 4 OF 4

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
770	CONTINUED								
	38-Loop 1 Drain	V-215 V-216	RC-70-2" RC-70-2"	VT-1	2	1 0 1	One Two Three	50 50 100	
	39-HPSI Supply Loop 1	V-523 V-522	SI-248-3" SI-248-3"	VT-1	2	1 1 0	One Two Three	50 100 100	
	40-HPSI Supply Loop 2	V-533 V-532	SI-199-3" SI-199-3"	VT-1	2	0 1 1	One Two Three	0 50 100	
780	CRD HOUSINGS BOLTS, STUDS, AND NUTS								
	2-RVLMS Locations	Marmon Clamps	CEDM 92 CEDM 96	VT-1	2	1 0 1	One Two Three	50 50 100	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-8
PAGE 1 OF 1

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
B800	EXAM CATEGORY B-H; INTEGRAL ATTACH-MENTS FOR VESSELS								
810	REACTOR VESSEL INTEGRALLY WELDED ATTACHMENTS	None	-	-	-	-	-	-	
820	PRESSURIZER INTEGRALLY WELDED ATTACHMENTS								
	5-Pressurizer	Support Skirt	SN 79373	S or Vol	1	33% 33% 34%	One Two Three	33 66 100	
830	STEAM GENERATORS INTEGRALLY WELDED ATTACHMENTS								
	3-Steam Generator 1	Support Skirt	SN 79273-1	S or Vol	1	33%* * 34%*	One Two Three	33* * 100*	*MULTIPLE VESSELS, EXAMINA-TIONS TOTAL 100% SUPPORT SKIRT WELD IN 1 STEAM GENERATOR.
	4-Steam Generator 2	Support Skirt	SN 79273-2	S or Vol	1	* 33%* *	One Two Three	* 66 *	
840	HEAT EXCHANGERS INTEGRALLY WELDED ATTACHMENTS	None	-	-	-	-	-	-	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-9
PAGE 1 OF 5

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
B900	EXAM CATEGORY B-J; PRESSURE RETAINING WELDS IN PIPING								
910	NOMINAL PIPE SIZE ≥4 IN.								
911 912	CIRCUMFERENTIAL AND *LONGITUDINAL WELDS								*THE LESSOR OF 12" OR 1 PIPE DIAMETER LENGTH FROM SCHEDULED CIRC WELD INTERSECTION WILL BE EXAMINED
	6-RCS Primary Piping	IIL 1 IIL 2 CL 1A to RCP CL 1B to RCP CL 2A to RCP	RC-32-42"ID RC-63-42"ID RC-33-30"ID RC-30-30"ID RC-73-30"ID	S,Vol	62	7 6 9	One Two Three	11 21 35	AUTOMATED EXAM OF NOZZLE TO EXTENSION AND EXTENSION TO PIPE WELDS
		CL 2B to RCP CL 1A to RPV CL 1B to RPV CL 2A to RPV CL 2B TO RPV	RC-84-30"ID RC-34-30"ID RC-31-30"ID RC-79-30"ID RC-93-30"ID						
	20-PZR Surge Line	Butt Welds	RC-28-12"	S,Vol	11	1 0 2	One Two Three	9 9 27	
	21-SD Cooling Loop 1	Butt Welds	RC-51-16" SI-240-16"	S,Vol	19	2 2 2	One Two Three	10 21 32	
	22-SD Cooling Loop 2	Butt Welds	RC-68-16" SI-193-16"	S,Vol	19	2 2 3	One Two Three	10 21 37	
	23-SI Loop 1A	Butt Welds	SI-207-14" SI-203-12"	S,Vol	18	3 0 2	One Two Three	17 17 28	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-9
PAGE 2 OF 5

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
911 & 912	CONTINUED								
	24-SI Loop 1B	Butt Welds	SI-223-14" SI-221-12"	S,Vol	18	0 3 2	One Two Three	0 16 26	
	25-SI Loop 2A	Butt Welds	SI-160-14" SI-156-12"	S,Vol	22	2 3 1	One Two Three	9 23 28	
	26-SI Loop 2B	Butt Welds	SI-179-14" SI-175-12"	S,Vol	18	2 1 2	One Two Three	11 17 28	
	28 & 29-PZR Spray Loop 1B and Combined	Butt Welds	RC-18-4"	S,Vol	15	2 1 2	One Two Three	13 20 33	
	31-PZR Safeties	Butt Welds	RC-1-6" RC-3-6" RC-5-6" RC-7-6"	S,Vol	12	1 2 2	One Two Three	8 25 42	
	36-Letdown Line Delay Coil	Butt Welds	RC-91-16"	S,Vol	4	0 1 0	One Two Three	0 25 25	
920	NOMINAL PIPE SIZE <4 IN.								*THE LESSER OF 12" OR 1 PIPE DIAMETER LENGTH FROM SCHEDULED CIRC WELD INTERSECTION WILL BE EXAMINED
921 & 922	CIRCUMFERENTIAL AND *LONGITUDINAL WELDS								
	27-PZR Spray Loop 1A	Butt Welds	RC-62-3" RC-16-3"	S	38	3 3 4	One Two Three	8 16 26	
	28-PZR Spray Loop 1B	Butt Welds	RC-17-3" RC-18-3"	S	36	4 3 3	One Two Three	11 19 28	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-9
PAGE 3 OF 5

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
921 & 922	CONTINUED								
	30-Aux PZR Spray	Butt Welds	CH-521-2"	S	11	2	One	18	
						2	Two	36	
						0	Three	36	
	32-Drain Line Loop 1A	Butt Welds	RC-60-2"	S	5	2	One	40	
						0	Two	40	
						0	Three	40	
	33-Drain Line Loop 1B	Butt Welds	RC-58-2"	S	5	0	One	0	
						2	Two	40	
						-	Three	40	
	34-Drain Line Loop 2A	Butt Welds	RC-96-2"	S	5	0	One	0	
						2	Two	0	
						0	Three	40	
	35-Drain Line Loop 2B	Butt Welds	RC-89-2"	S	5	0	One	0	
						0	Two	0	
						2	Three	40	
	36-Letdown Line	Butt Welds	RC-91-2"	S	70	4	One	6	
						6	Two	14	
						8	Three	26	
	37-Charging Line	Butt Welds	CH-5-3"	S	60	5	One	8	
						6	Two	18	
						6	Three	28	
	38-Drain Line Loop 1	Butt Welds	RC-70-2"	S	4	0	One	0	
						1	Two	25	
						0	Three	25	
	39-HPSI Supply Loop 1	Butt Welds	SI-248-3"	S	36	2	One	6	
						3	Two	14	
						4	Three	25	
	40-HPSI Supply Loop 2	Butt Welds	SI-199-3"	S	25	3	One	12	
						2	Two	20	
						2	Three	28	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-9
PAGE 4 OF 5

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
930	BRANCH PIPE CONNECTION WELDS								
931	NOMINAL PIPE SIZE ≥ 4 IN.								ITEM B9.31, SYSTEMS COMBINED FOR PERCENTAGE
	6-RCS Primary Piping	Surge	RC-28-42"ID	S,Vol	1	1	Three	-	
		SD Cooling 1	RC-32-42"ID	S,Vol	1	0	-	-	
		SD Cooling 2	RC-63-42"ID	S,Vol	1	0	-	-	
		SI 1A	RC-34-30"ID	S,Vol	1	1	One	14	
		SI 1B	RC-31-30"ID	S,Vol	1	1	Three	-	
		SI 1C	RC-79-30"ID	S,Vol	1	1	Two	29	
		SI 1D	RC-93-30"ID	S,Vol	1	1	Three	71	
932	NOMINAL PIPE SIZE < 4 IN.								ITEM B9.32, SYSTEMS COMBINED FOR PERCENTAGE
	6-RCS Primary Piping	Drain 1A	RC-33-30"ID	S	1	1	One	-	
		PZR Spray 1A	RC-34-30"ID	S	1	0	-	-	
		Drain 1B	RC-30-30"ID	S	1	0	-	-	
		PZR Spray 1B	RC-31-30"ID	S	1	0	-	-	
		Drain 2A	RC-73-30"ID	S	1	0	-	-	
		Charging	RC-79-30"ID	S	1	1	Two	-	
		Letdown	RC-84-30"ID	S	1	1	Three	42	
	21-SD Cooling Loop 1	2" Drain	RC-051-16"	S	2	0	One	-	
		3" HPSI				0	Two	-	
						0	Three	-	
	22-SD Cooling Loop 2	3" HPSI	RC-068-16"	S	1	1	One	14	
						0	Two	-	
						0	Three	-	
	36-Letdown Line	2" Delay Coil	RC-091-16"	S	4	0	One	-	
						2	Two	36	
						0	Three	-	
940	SOCKET WELDS								
	32-Drain Line Loop 1A	Socket Welds	RC-060-2"	S	3	1	One	33	
						0	Two	33	
						0	Three	33	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-9
PAGE 5 OF 5

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
940	CONTINUED								
	33-Drain Line Loop 1B	Socket Welds	RC-058-2"	S	3	0 1 0	One Two Three	0 33 33	
	34-Drain Line Loop 2A	Socket Welds	RC-096-2"	S	3	0 1 0	One Two Three	0 33 33	
	35-Drain Line Loop 2B	Socket Welds	RC-089-2"	S	3	0 0 1	One Two Three	0 0 33	
	38-Drain Line Loop 1	Socket Welds	RC-070-2"	S	3	1 0 0	One Two Three	33 33 33	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-10

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
B100	EXAM CATEGORY B-K-1; INTEGRAL ATTACHMENTS FOR PIPING, PUMPS, AND VALVES								
1010	PIPING INTEGRALLY WELDED ATTACHMENTS								ITEM B10.10 COMBINED FOR PERCENTAGE
	22-SD Cooling Loop 2	Lugs	SI-193-16"	S	1	1	Two	-	
	24-SI Loop 1B	Stanchion	SI-223-14"	S	1	1	Three	-	
	25-SI Loop 2A	Stanchion	SI-160-14"	S	1	1	Three	100	
	26-SI Loop 2B	Stanchion	SI-179-14"	S	1	1	One	-	
	36-Letdown Line	Lugs	RC-091-16"	S	2	1 1	One Two	33 66	
1020	PUMPS INTEGRALLY WELDED ATTACHMENTS	None	-	-	-	-	-	-	
1030	VALVES INTEGRALLY WELDED ATTACHMENTS	None	-	-	-	-	-	-	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-12

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
B120	EXAM CATE B-L-1, B-M-1; PRESSURE RETAINING WELDS IN PUMP CASINGS AND VALVE BODIES; EXAM CATE B-L-2, B-M-2; PUMP CASINGS AND VALVE BODIES								
1210	PUMPS PUMP CASING WELDS								
	16-RC Pump 1A 17-RC Pump 1B 18-RC Pump 2A 19-RC-Pump 2B	Circ Casing Welds	1255 1257 1256 1258	Vol	4	Examine the Weld in 1 Pump	*	100	
	16-RC Pump 1A 17-RC Pump 1B 18-RC Pump 2A 19-RC-Pump 2B	Outlet Nozzle to Casing Welds	1255 1257 1256 1258	Vol	4	Examine the Weld in 1 Pump	*	100	*BY THE END OF THE INTERVAL
1220	PUMP CASINGS								
	16-RC Pump 1A 17-RC Pump 1B 18-RC Pump 2A 19-RC-Pump 2B	Internal Surfaces	1255 1257 1256 1258	VT-3	4	Examine the Internal Surfaces in 1 Pump	*	100	
1230	VALVES VALVES, NOMINAL PIPE SIZE < 4 IN. VALVE BODY WELDS	None	-	-	-	-	-	-	
1240	VALVES, NOMINAL PIPE SIZE ≥ 4 IN. VALVE BODY WELDS								
	Borg Warner Gate Valves Utilizing Forged Construction	UV-651 UV-653 UV-652 UV-654 UV-634 UV-644 UV-614 UV-624	RC-51-16" SI-240-16" RC-68-16" SI-193-16" SI-207-14" SI-223-14" SI-160-14" SI-179-14"	Vol	8	Examine the Weld in 1 Valve	*	100	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-12
PAGE 2 OF 2

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
1240	CONTINUED								
	Borg Warner Check Valve Utilizing Forged Construction	V-244	RC-18-4"	Vol	1	1	*	100	
	Dresser Pressure Safety Valves Utilizing Forged Construction	PSV-200 PSV-201 PSV-202 PSV-203	RC-1-6" RC-3-6" RC-5-6" RC-7-6"	Vol	4	Examine the Weld in 1 Valve	*	100	
1250	VALVE BODY, EXCEEDING 4 IN NOMINAL PIPE SIZE								
	Borg Warner Gate Valves Utilizing Forged Construction	UV-651 UV-653 UV-652 UV-654 UV-634 UV-644 UV-614 UV-624	RC-51-16" SI-240-16" RC-68-16" SI-193-16" SI-207-14" SI-223-14" SI-160-14" SI-179-14"	VT-3	8	Examine the Internal Surfaces of 1 valve	*	100	*BY THE END OF THE INTERVAL
	Borg Warner Check Valves Utilizing Cast Construction	V-235 V-237 V-542 V-245 V-247 V-543 V-215 V-217 V-540 V-225 V-227 V-541	SI-207-14" SI-207-14" SI-203-12" SI-223-14" SI-223-14" SI-221-12" SI-160-14" SI-160-14" SI-156-12" SI-179-14" SI-179-14" SI-175-12"	VT-3	12	Examine the Internal Surfaces of 1 valve	*		
	Dresser Pressure Safety Valves Utilizing Forged Construction	PSV-200 PSV-201 PSV-202 PSV-203	RC-1-6" RC-3-6" RC-5-6" RC-7-6"	VT-3	4	Examine the Internal Surfaces of 1 Valve	*	100	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-13

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
B130	EXAM CATEGORY B-N-1; INTERIOR OF REACTOR VESSEL; B-N-2, INTEGRALLY WELDED CORE SUPPORT STRUCTURES AND INTERIOR ATTACHMENTS TO REACTOR VESSELS; B-N-3, REMOVABLE CORE SUPPORT STRUCTURES								
1310	REACTOR VESSEL VESSEL INTERIOR								
	1-Reactor Vessel	Examine the accessible areas above and below the reactor core that is made accessible for examination by removal of components during normal refueling outages		VT-3	Accessible Areas	33% 33% 34%	*One *Two *Three	33 66 100	*EXAMINE AT 1ST REFUELING OUTAGE, AND SUBSEQUENTLY AT 3-YEAR INTERVALS
1320	REACTOR VESSEL (BWR) INTERIOR ATTACHMENTS	N/A							
1321	CORE SUPPORT STRUCTURE	N/A							
1322									
1330	INTERIOR ATTACHMENTS WITHIN BELTLINE REGION	None	-	-	-	-	-	-	
1331	INTERIOR ATTACHMENTS BEYOND BELTLINE REGION	Examine the accessible welds and surrounding		VT-3	Accessible Welds	100%	*	100	*BY THE END OF THE INTERVAL
1332	CORE SUPPORT STRUCTURE	Examine the accessible core support structure		VT-3	Accessible Surfaces	100%	*	100	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-14

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
B1400	EXAM CATEGORY B-O; PRESSURE RETAINING WELDS IN CONTROL ROD HOUSINGS								ITEM B14.10 COMBINED FOR PERCENTAGE
1410	REACTOR VESSEL WELDS IN CRD HOUSING								
	2-Reactor Vessel Closure Head CEDM Housings	Lower Housing Welds	Housings #66 - #97	Vol	*97	0 0 0	One Two Three	- - -	*32 PERIPHERAL (126 TOTAL WELDS)
	2-Reactor Vessel Closure Head CEDM Housings	Upper Housing Welds	Housings #66 - #97	Vol	*97	2 2 3	One Two Three	- - -	**INCLUDES 2 RVLMS TRANHUBS
	2-Reactor Vessel Closure Head CEDM Housings	Tube Housing Lower Weld	Housings** #66 - #97	Vol	*97	2 2 3	One Two Three	3 6 11	
	2-Reactor Vessel Closure Head CEDM Housings	Tube Housing Upper Weld	Housings #66 - #97	Vol	*97	0 0 0	One Two Three	- - -	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-15
PAGE 1 OF 1

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
B150	EXAMINATION CATEGORY B-P, ALL PRESSURE RETAINING COMPONENTS								
	SYSTEM LEAKAGE TEST								
1510	Reactor Vessel	Pressure Retaining Boundary	-	VT-2	-	Entire Pressure retaining boundary IWA-5000 IWB-5000	*	100	*EACH REFUELING OUTAGE
1520	Pressurizer								
1530	Steam Generators								
1540	Heat Exchangers								
1550	Piping								
1560	Pumps								
1570	Valves								
	SYSTEM HYDRO-TEST								
1511	Reactor Vessel	Pressure Retaining Boundary	-	VT-2	-	Entire Pressure retaining boundary IWA-5000 IWB-5000	**	100	**BY THE END OF THE INTERVAL
1521	Pressurizer								
1531	Steam Generators								
1541	Heat Exchangers								
1551	Piping								
1561	Pumps								
1571	Valves								

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-16
PAGE 1 OF 1

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
B160	EXAMINATION CATEGORY B-Q, STEAM GENERATOR TUBING								
1610	N/A								
1620	Per ASME Section XI and 10CFR50, All Eddy Current Examinations of Steam Generator Tubing will be performed in accordance with PVNGS Technical Specifications	-	-	-	-	-	-	-	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-IWF

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
* F110 F120 F130 F140 F210 F220 F230 F240 F310 F320 F330 F340 F350	EXAM CATEGORY F-A; PLATE AND SHELL TYPE SUPPORTS and EXAM CATEGORY F-B; LINEAR TYPE SUPPORTS and EXAM CATEGORY F-C; COMPONENT STANDARD SUPPORTS			**					REQUEST FOR RELIEF #1 & #3 *INCLUDES EXAM ITEMS IDENTIFIED AS APPLI-CABLE. **NDE METHOD INCLUDES VT-4 EXAMS, WHERE APPLI-CABLE.
	1-Reactor Vessel	Support Columns	SN 79173	VT-3	4	1 1 2	One Two Three	25 50 100	
	3-Steam Generator 1	Support Skirt	SN 79273-1	VT-3	1	1 0 0	One Two Three	100 100 100	
	4-Steam Generator 2	Support Skirt	SN 79273-2	VT-3	1	0 1 0	One Two Three	- 100 100	
	5-Pressurizer	Support Skirt	SN 79373	VT-3	1	0 0 1	One Two Three	- - 100	
	16-Reactor Coolant Pump 1A	Vertical and Lateral Supports	SN-1110-1A	VT-3	10	2 4 4	One Two Three	20 60 100	
	17-Reactor Coolant Pump 1B	Vertical and Lateral Supports	SN-1110-1B	VT-3	10	2 4 4	One Two Three	20 60 100	
	18-Reactor Coolant Pump 2A	Vertical and Lateral Supports	SN 1110-2A	VT-3	10	4 2 4	One Two Three	40 60 100	
	19-Reactor Coolant Pump 2B	Vertical and Lateral Supports	SN 1110-2B	VT-3	10	4 2 4	One Two Three	40 60 100	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-IWF
PAGE 2 OF 3

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
F110	CONTINUED								
F120									
F130									
F140	20-PZR Surge Line	Supports	RC-28-12"	VT-3	7	2	One	29	
F210						2	Two	58	
F220						3	Three	100	
F230									
F240	21-SD Cooling	Supports	RC-51-16"	VT-3	22	7	One	32	
F310	Loop 1		SI-240-16"			7	Two	64	
F320						8	Three	100	
F330									
F340	22-SD Cooling	Supports	RC-68-16"	VT-3	13	4	One	31	
F350	Loop 2	(1-B10.10)	SI-193-16"			5	Two	69	
						4	Three	100	
	23-SI Loop 1A	Supports	SI-207-14"	VT-3	7	2	One	29	
			SI-203-12"			2	Two	57	
						3	Three	100	
	24-SI Loop 1B	Supports	SI-223-14"	VT-3	8	2	One	25	
		(1-B10.10)	SI-221-12"			2	Two	50	
						4	Three	100	
	25-SI Loop 2A	Supports	SI-160-14"	VT-3	7	2	One	29	
		(1-B10.10)	SI-156-12"			3	Two	71	
						2	Three	100	
	26-SI Loop 2B	Supports	SI-179-14"	VT-3	9	3	One	33	
		(1-B10.10)	SI-175-12"			3	Two	67	
						3	Three	100	
	27-PZR Spray	Supports	RC-62-3"	VT-3	28	9	One	32	
	Loop 1A		RC-16-3"			11	Two	68	
						8	Three	100	
	28-PZR Spray	Supports	RC-17-3"	VT-3	28	9	One	33	
	Loop 1B		RC-18-3"			8	Two	61	
			RC-18-4"			11	Three	100	
	29-PZR Spray	Supports	RC-18-4"	VT-3	5	2	One	40	
	Loop 1B and					3	Two	100	
	Combined					0	Three	100	
	30-Aux PZR Spray	Supports	CH-521-2"	VT-3	2	0	One	-	
						0	Two	-	
						2	Three	100	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-IWF
PAGE 3 OF 3

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
F110	CONTINUED								
F120									
F130	32-Drain Line	Supports	RC-60-2"	VT-3	2	2	One	100	
F140	Loop 1A					0	Two	100	
F210						0	Three	100	
F220									
F230	33-Drain Line	Supports	RC-58-2"	VT-3	2	0	One	-	
F240	Loop 1B					2	Two	100	
F310						0	Three	100	
F320									
F330	34-Drain Line	Supports	RC-96-2"	VT-3	2	0	One	-	
F340	Loop 2A					2	Two	100	
F350						0	Three	100	
	35-Drain Line	Supports	RC-89-2"	VT-3	2	0	One	-	
	Loop 2B					0	Two	-	
						2	Three	100	
	36-Letdown Line	Supports	RC-91-2"	VT-3	32	11	One	34	
		(2-B10.10)	CH-001-2"			10	Two	66	
						11	Three	100	
	37-Charging Line	Supports	CH-5-3"	VT-3	43	14	One	33	
						14	Two	65	
						15	Three	100	
	38-Drain Line	Supports	RC-70-2"	VT-3	2	0	One	0	
	Loop 1					0	Two	0	
						2	Three	100	
	39-HPSI Supply	Supports	SI-248-3"	VT-3	14	4	One	29	
	Loop 1					5	Two	62	
						5	Three	100	
	40-HPSI Supply	Supports	SI-199-3"	VT-3	9	3	One	33	
	Loop 2					4	Two	77	
						3	Three	100	
N/A	Snubbers: IWF-5000 All inservice testing requirements will be performed in accordance with PVNGS Technical Specifications.								REQUEST FOR RELIEF #1.

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 1

TABLE 1-RCP

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
N/A	REACTOR COOLANT PUMP FLYWHEEL EXAMINATIONS REG. GUIDE 1.14								REFERENCE PVNGS TECH SPEC 4.4.9
	16, 17, 18 and 19 Reactor Coolant Pumps 1A, 1B, 2A & 2B Flywheels	Flywheels		Vol*	4	4 4	One Two	100 100	*AN ULTRASONIC EXAMINATION WILL BE PERFORMED OF THE AREAS OF HIGHER STRESS CONCENTRATION AT THE BORE AND KEYWAYS.
				**S,Vol	4	4	Three	100	**A SURFACE EXAM OF ALL EXPOSED SURFACES AND A COMPLETE ULTRASONIC EXAM TO THE EXTENT PRACTICAL WILL BE PERFORMED.

SECTION 5.0

ASME CLASS 2

EXAMINATION SUMMARY

INDEX

TABLE	EXAM CATEGORY	
2-1	C-A,	Pressure retaining welds in pressure vessels
2-2	C-B,	Pressure retaining nozzle welds in vessels
2-3	C-C,	Integral attachments for vessels, piping, pumps, and valves
2-4	C-D,	Pressure retaining bolting exceeding 2 in. in diameter
2-5	C-F,	Pressure retaining welds in piping
2-6	C-G,	Pressure retaining welds in pumps and valves
2-7	C-H,	All pressure retaining components
2-IWF	F-A,	Plate and shell type supports
	F-B,	Linear type supports
	F-C,	Component standard supports

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 2

TABLE 2-1
PAGE 1 OF 3

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
C100	EXAM. CATEGORY C-A; PRESSURE RETAINING WELDS IN PRESSURE VESSELS								
	STEAM GENERATORS								MULTIPLE VESSELS: PERCENTAGE COMBINED
110	SHELL CIRCUMFERENTIAL WELDS								
	41-Steam Generator 1	Shell to Conical Welds	SN-79273-1	Vol	2	1* 0 0	One Two Three	50 - -	*50% EACH WELD
	42-Steam Generator 2	Shell to Conical Welds	SN-79273-2	Vol	2	0 0 1**	One Two Three	- - 100	**50% EACH WELD
120	HEAD CIRCUMFERENTIAL WELDS								
	41-Steam Generator 1	Head to Shell Weld	SN-79273-1	Vol	1	50% 0 0	One Two Three	50 - -	
	42-Steam Generator 2	Head to Shell Weld	SN-79273-2	Vol	1	0 0 50%	One Two Three	- - 100	
130	TUBESHEET-TO-SHELL WELD								
	41-Steam Generator 1	Outside Shell and Stay Cylinder	SN-79273-1	Vol	2	50%* 0 0	One Two Three	25 - -	*OUTSIDE SHELL WELDS
	42-Steam Generator 2	Outside Shell and Stay Cylinder	SN-79273-2	Vol	2	0 50%* 1**	One Two Three	- 50 100	**STAY CYLINDER EXAM

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 2

TABLE 2-1
PAGE 2 OF 3

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
	REGENERATIVE HEAT EXCHANGER								SINGLE VESSEL
110	SHELL CIRCUMFERENTIAL WELDS								
	68-Regenerative Heat Exchanger	Butt Welds	SN-79313	Vol	3	1 1 1	One Two Three	33 66 100	
120	HEAD CIRCUMFERENTIAL WELDS								
	68-Regenerative Heat Exchanger	Head to Shell	SN-79313	Vol	2	1 0 1	One Two Three	50 50 100	
130	TUBESHEET-TO-SHELL WELDS								
	68-Regenerative Heat Exchanger	Butt Welds	SN-79313	Vol	4	0 2 2	One Two Three	0 50 100	
	LETDOWN HEAT EXCHANGER								SINGLE VESSEL
110	SHELL CIRCUMFERENTIAL WELDS								
	69-Letdown Heat Exchanger	Shell to Flange	SN-N2373	Vol	1	50% 0 50%	One Two Three	50 50 100	
120	HEAD CIRCUMFERENTIAL WELDS	None	-	-	-	-	-	-	
130	TUBESHEET-TO-SHELL WELD								
	69-Letdown Heat Exchanger	Butt Weld	SN-N2373	Vol	1	50% 0 50%	One Two Three	50 50 100	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 2

TABLE 2-1
PAGE 3 OF 3

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
	SHUTDOWN COOLING HEAT EXCHANGERS								MULTIPLE VESSELS: PERCENTAGE COMBINED
110	SHELL CIRCUMFERENTIAL WELDS								
	74-SD Cooling Heat Exchanger 1	Shell to Flange	SN-S18343	Vol	1	0 50% 0	One Two Three	- 50 50	
	75-SD Cooling Heat Exchanger 2	Shel to Flange	SN-S18344	Vol	1	0 0 50%	One Two Three	- - 100	
120	HEAD CIRCUMFERENTIAL WELDS	None	-	-	-	-	-	-	
130	TUBESHEET-TO-SHELL WELD								
	74-SD Cooling Heat Exchanger 1	Butt Weld	SN-S18343	Vol	1	0 50% 0	One Two Three	- 50 50	
	75-SD Cooling Heat Exchanger 2	Butt Weld	SN-S18344	Vol	1	0 0 50%	One Two Three	- - 100	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 2

TABLE 2-2
PAGE 1 OF 2

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
C200	EXAM CATEGORY C-B; PRESSURE RETAINING NOZZLE WELDS IN VESSELS								
210	NOZZLES IN VESSELS ≤ 1/2 IN NOMINAL THICKNESS	None	-	-	-	-	-	-	
220	NOZZLES WITHOUT REINFORCING PLATE IN VESSELS > 1/2 IN. NOMINAL THICKNESS								INSIDE RADIUS ON PIPING ONLY GREATER THAN 12" DIAMETER.
221 & 222	NOZZLE-TO-SHELL (OR HEAD) WELDS AND NOZZLE INSIDE RADIUS SECTION								REQUEST FOR RELIEF #2
	41-Steam Generator 1	Nozzle to Vessel Welds	SN-79273-1	S,Vol	7	1 0 2	One Two Three	29 - 100	MULTIPLE VESSELS: PERCENTAGE COMBINED
	42-Steam Generator 2	Nozzle to Vessel Welds	SN-79273-2	S,Vol	7	1 2 1	One Two Three	- 57 -	
	74-SD Cooling Heat Exchanger 1	Nozzle to Shell Welds	SN-S18343	S,Vol	2	0 1 0	One Two Three	- 50 -	MULTIPLE VESSELS PERCENTAGE COMBINED
	75-SD Cooling Heat Exchanger 2	Nozzle to Shell Welds	SN-S18344	S,Vol	2	0 0 1	One Two Three	- - 100	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 2

TABLE 2-2
PAGE 2 OF 2

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
230	NOZZLES WITH REINFORCING PLATE IN VESSELS > 1/2 IN. NOMINAL THICKNESS								
231 & 232	REINFORCING PLATE WELDS TO NOZZLE AND VESSEL	None	-	-	-	-	-	-	
	NOZZLE-TO-SHELL (OR HEAD) WELDS								
	INSIDE OF VESSEL ACCESSIBLE	None	-	-	-	-	-	-	
	INSIDE OF VESSEL INACCESSIBLE	None	-	-	-	-	-	-	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 2

TABLE 2-3

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
C300	EXAM CATEGORY C-C; INTEGRAL ATTACHMENTS FOR VESSELS, PIPING PUMPS AND VALVES								
310	PRESSURE VESSELS INTEGRALLY WELDED ATTACHMENTS								
	41-Steam Generator 1	2-Snubber Lugs	SN-79273-1	S	2	1 0 0	One Two Three	50 - -	MULTIPLE VESSELS: PERCENTAGE COMBINED
	42-Steam Generator 1	2-Snubber Lugs	SN-79273-2	S	2	0 1 0	One Two Three	- 100 -	
	68-Regenerative Heat Exchanger	2-Supports	SN-79313	S	2	0 1 1	One Two Three	- 50 100	SINGLE VESSEL
320	PIPING INTEGRALLY WELDED ATTACHMENTS								
	43-Main Steam SG-1 90° Inside Cont	Attachments	SG-36	S	6	1 1 4	One Two Three	16 33 100	
	44-Main Steam SG-1 270° Inside Cont	Attachments	SG-33	S	5	0 3 2	One Two Three	- 60 100	
	45-Main Steam SG-2 270° Inside Cont	Attachments	SG-42	S	5	3 1 1	One Two Three	60 80 100	
	46-Main Steam SG-2 90° Inside Cont	Attachments	SG-45	S	5	0 2 3	One Two Three	- 40 100	
	51-Atmospheric Dump SG-1	Attachments	SG-59 SG-70	S	2	1 1 0	One Two Three	50 100 100	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 2

TABLE 2-3
PAGE 2 OF 4

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
320	CONTINUED								
	52-Atmospheric Dump SG-2	Attachments	SG-84 SG-103	S	2	0 0 2	One Two Three	- - 100	
	53-Steam to Aux Feedwater System	Attachments	SG-81 SG-83	S	2	2 0 0	One Two Three	100 100 100	
	54-Feedwater SG-1 Inside Cont.	Attachments	SG-002	S	1	0 0 1	One Two Three	- - 100	
	55-Feedwater SG-2 Inside Cont.	Attachments	SG-005	S	2	1 0 1	One Two Three	50 50 100	
	62-Aux. Feedwater S/G-1	Attachments	AF-018	S	1	0 1 0	One Two Three	- 100 -	
	64-Blowdown SG-1 Inside Cont.	Attachments	SG-39	S	4	2 1 1	One Two Three	50 75 100	
	65-Blowdown SG-2 Inside Cont.	Attachments	SG-48	S	7	2 3 2	One Two Three	29 71 100	
	70-LPSI Pump Suction Loop 1	Attachments	SI-241 SI-369 SI-239 SI-2	S	4	2 2 0	One Two Three	50 100 100	
	71-LPSI Pump Suction Loop 2	Attachments	SI-194	S	2	1 0 1	One Two Three	50 50 100	
	72-LPSI Pump Discharge Loop 1	Attachments	SI-87 SI-78	S	2	1 0 1	One Two Three	50 50 100	
	74-SD Cooling Hx Outlet Loop 1	Attachments	SI-70 SI-87 SI-90	S	8	2 4 2	One Two Three	25 75 100	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 2

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
320	CONTINUED								
	75-SD Cooling Hx Outlet Loop 2	Attachments	SI-72	S	3	1	One	33	
						0	Two	33	
						2	Three	100	
	76-LPSI Header 1A	Attachments	SI-70 SI-202	S	3	2	One	67	
						0	Two	67	
						1	Three	100	
	79-LPSI Header 2B	Attachments	SI-174	S	1	0	One	-	
						1	Two	100	
						0	Three	100	
	80-Containment Spray Pump Suction Loop 1	Attachments	SI-9	S	1	1	One	100	
						0	Two	100	
						0	Three	100	
	82-Containment Spray Discharge Loop 1	Attachments	SI-79	S	2	0	One	-	
						1	Two	50	
						1	Three	100	
	83-Containment Spray Discharge Loop 2	Attachments	SI-119	S	1	0	One	-	
						0	Two	-	
						1	Three	100	
	84-Containment Sump Suction Loop 1	Attachment	SI-7	S	1	0	One	-	
						1	Two	100	
						0	Three	100	
	85-Containment Sump Suction Loop 2	Attachment	SI-30	S	1	0	One	-	
						0	Two	-	
						1	Three	100	
330	PUMPS INTEGRALLY WELDED ATTACHMENTS								
	72-LPSI Pump Loop 1	Attachment Lugs	SN 0876-40	S	3	2	One	66	
						1	Two	100	
						0	Three	100	
	73-LPSI Pump Loop 2	Attachment Lugs	SN 0876-41	S	3	0	One	-	
						1	Two	33	
						2	Three	100	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 2

TABLE 2-3

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
330	Continued								
	80-Containment Spray Pump Loop 1	Attachment Lugs	SN 0876-42	S	3	2 1 0	One Two Three	66 100 100	
	81-Containment Spray Pump Loop 2	Attachment Lugs	SN 0876-43	S	3	0 1 2	One Two Three	- 33 100	
340	VALVES INTEGRALLY WELDED ATTACHMENTS	None	-	-	-	-	-	-	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 2

TABLE 2-4

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
C400	EXAM CATEGORY C-D; PRESSURE RETAINING BOLTING EXCEEDING 2 IN. IN DIAMETER								
	PRESSURE VESSELS								
410	BOLTS AND STUDS	None	-	-	-	-	-	-	
	PIPING								
420	BOLTS AND STUDS	None	-	-	-	-	-	-	
	PUMPS								
430	BOLTS AND STUDS	None	-	-	-	-	-	-	
	VALVES								
440	BOLTS AND STUDS								
	47-Main Steam SG-1 270° MSSS	Bonnet Bolts	UV-170	Vol	20	20	One	(25)	ITEM C440 COMBINED FOR PER-CENTAGE
	48-Main Steam SG-1 90° MSSS	Bonnet Bolts	UV-180	Vol	20	20	One	(25)	
	49-Main Steam SG-2 270° MSSS	Bonnet Bolts	UV-171	Vol	20	20	Three	(100)	
	50-Main Steam SG-2 90° MSSS	Bonnet Bolts	UV-181	Vol	20	20	Three	(100)	
	56-Feedwater SG-1 MSSS	Bonnet Bolts	UV-132 UV-174	Vol Vol	20 20	20 20	Two Two	(50) (50)	
	57-Feedwater SG-2 MSSS	Bonnet Bolts	UV-137 UV-177	Vol Vol	20 20	20 20	Three Three	(100) (100)	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 2

TABLE 2-5
PAGE 1 OF 4

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
C500	EXAMINATION CATEGORY C-F, PRESSURE RETAINING WELDS IN PIPING								RHR, CHR, & ECCS SYSTEMS ARE SCHEDULED PER 10CFR50 REQUIREMENTS AND ARE IDENTIFIED IN TABLE 2-CFR
510	PIPING WELDS ≤ 1/2 IN. OR LESS NOMINAL WALL THICKNESS								
511 & 512	CIRCUMFERENTIAL AND *LONGITUDINAL WELDS								*2.5T MIN. FROM EACH SCHEDULED CIRC. WELD INTERSECTION WILL BE EXAMINED
	53-Steam to Aux. Feedwater	Butt Welds	SG-81-6"	S	14	**	-	-	
			SG-83-6"	S	15	**	-	-	
	58-Aux. and Downcomer Feedwater SG-1 Inside Cont	Butt Welds	SG-8-6"	S***	3	1	One	4	**REQUIREMENTS IDENTIFIED IN TABLE 2-AHE
			SG-8-8"	S	23	2	Two	12	
						0	Three	12	
	59-Aux. and Downcomer Feedwater SG-2 Inside Cont	Butt Welds	SG-11-6"	S***	3	0	One	-	
			SG-11-8"	S	24	3	Two	11	
						3	Three	22	***AN AUGMENTED VOL EXAMINATION WILL BE PERFORMED EACH PERIOD (SEE IEB 79-13 AND SER 83-07)

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 2

TABLE 2-5

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
520	PIPING WELDS > 1/2 IN. NOMINAL WALL THICKNESS								
521	CIRCUMFERENTIAL AND								*2.5T MIN. FROM EACH SCHEDULED CIRC. WELD INTERSECTION WILL BE EXAMINED
522	*LONGITUDINAL WELDS								
	43-Main Steam SG-1 90° Inside Cont.	Butt Welds	SG-36-28"	S,Vol	18	3 0 2	One Two Three	17 17 28	
	44-Main Steam SG-1 270° Inside Cont.	Butt Welds	SG-33-28"	S,Vol	20	3 1 2	One Two Three	15 20 30	
	45-Main Steam SG-2 270° Inside Cont.	Butt Welds	SG-42-28"	S,Vol	18	0 2 3	One Two Three	- 11 28	
	46-Main Steam SG-2 90° Inside Cont.	Butt Welds	SG-45-28"	S,Vol	20	2 2 1	One Two Three	10 20 25	
	47-Main Steam SG-1 270° MSSS	Butt Welds	SG-206-28" SG-206-12" SG-206-6"	S,Vol S,Vol S,Vol	5 2 5	* * *	-	-	
	48-Main Steam SG-1 90° MSSS	Butt Welds	SG-207-28" SG-207-12" SG-207-6"	S,Vol S,Vol S,Vol	5 2 5	* * *	-	-	
	49-Main Steam SG-2 270° MSSS	Butt Welds	SG-208-28" SG-208-12" SG-208-6"	S,Vol S,Vol S,Vol	5 2 5	* * *	-	-	*REQUIREMENTS IDENTIFIED IN TABLE 2-AHE
	50-Main Steam SG-2 90° MSSS	Butt Welds	SG-209-28" SG-209-12" SG-209-6"	S,Vol S,Vol S,Vol	5 2 5	* * *	-	-	
	51-Atmosphere Dump SG-1	Butt Welds	SG-59-12" SG-70-12"	S,Vol S,Vol	11 13	* *	-	-	
	52-Atmosphere Dump SG-2	Butt Welds	SG-84-12" SG-103-12"	S,Vol S,Vol	13 11	* *	-	-	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 2

TABLE 2-5
PAGE 3 OF 4

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
521 522	CONTINUED								
	54-Feedwater SG-1 Inside Cont.	Butt Welds	SG-2-24" SG-2-16" SG-2-14" SG-13-16" SG-13-14"	S,Vol S,Vol S,Vol S,Vol S,Vol	30 4 10 4 11	5 5 6	One Two Three	8 17 27	
	55-Feedwater SG-2 Inside Cont.	Butt Welds	SG-5-24" SG-5-16" SG-5-14" SG-14-16" SG-14-14"	S,Vol S,Vol S,Vol S,Vol S,Vol	30 3 10 3 10	5 5 5	One Two Three	9 18 27	
	56-Feedwater SG-1 MSSS	Butt Welds	SG-201-24" SG-202-24"	S,Vol S,Vol	2 2	* *	-	-	
	57-Feedwater SG-2 MSSS	Butt Welds	SG-204-24" SG-205-24"	S,Vol S,Vol	2 2	* *	-	-	*REQUIREMENTS IDENTIFIED IN TABLE 2-AHE
	58-Aux. and Downcomer Feedwater SG-1 Inside Cont	Butt Welds	SG-8-6" AF-4-6"	S,Vol S,Vol	1 14**	3 0 2	One Two Three	20 20 33	**INCLUDES 1 DISSIMILAR WELD
	59-Aux. and Downcomer Feedwater SG-2 Inside Cont	Butt Welds	SG-11-6" AF-6-6"	S,Vol S,Vol	1 12**	2 2 1	One Two Three	15 31 38	
	60-Downcomer Feedwater SG-1 MSSS	Butt Welds	SG-200-8"	S,Vol	6	*	-	-	
	61-Downcomer Feedwater SG-2 MSSS	Butt Welds	SG-203-8"	S,Vol	6	*	-	-	
	62-Aux. Feedwater SG-1 MSSS	Butt Welds	AF-4-6" AF-18-6"	S,Vol S,Vol	7 13	1 2 3	One Two Three	5 15 30	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 2

TABLE 2-5
PAGE 4 OF 4

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
521	CONTINUED								
522									
	63-Aux. Feedwater SG-2 MSSS	Butt Welds	AF-6-6"	S,Vol	13	1	One	6	
			AF-16-6"	S,Vol	3	2	Two	19	
						2	Three	31	
	64-Blowdown SG-1 Inside Cont	Butt Welds	SG-39-6"	S,Vol	37	2	One	4	
			SG-53-6"	S,Vol	14	4	Two	12	
						4	Three	20	
	65-Blowdown SG-2 Inside Cont	Butt Welds	SG-48-6"	S,Vol	34	4	One	8	
			SG-52-6"	S,Vol	14	3	Two	15	
						4	Three	23	
	66-Blowdown SG-1 MSSS	Butt Welds	SG-39-6"	S,Vol	2	*	-	-	*REQUIREMENTS IDENTIFIED IN TABLE 2-AHE
	67-Blowdown SG-2 MSSS	Butt Welds	SG-48-6"	S,Vol	2	*	-	-	
530	PIPE BRANCH CONNECTIONS > 4 IN. NOMINAL PIPE SIZE								**2.5T MIN. FROM EACH SCHEDULED BRANCH WELD INTERSECTION WILL BE EXAMINED
531	CIRCUMFERENTIAL AND								
532	**LONGITUDINAL WELDS								
	47-Main Steam SG-1 270° MSSS	Sweepolets	SG-206-28	S	7	*	-	-	
	48-Main Steam SG-1 90° MSSS	Sweepolets	SG-207-28	S	8	*	-	-	
	49-Main Steam SG-2 270° MSSS	Sweepolets	SG-208-28	S	8	*	-	-	*REQUIREMENTS IDENTIFIED IN TABLE 2-AHE
	50-Main Steam SG-2 90° MSSS	Sweepolets	SG-209-28	S	7	*	-	-	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 2

TABLE 2-6

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
C600	EXAM CATEGORY C-G; PRESSURE RETAINING WELDS IN PUMPS AND VALVES								
	PUMPS								
610	PUMP CASING WELDS	None	-	-	-	-	-	-	
	VALVES								
620	VALVE BODY WELDS								
	Dresser, 6" x 10", Pressure Safety Main Steam Valves	Zone 47	SG-206-28"	S	5	Examine the weld in 1 valve	*	100	*BY THE END OF THE INTERVAL.
		Zone 48	SG-207-28"	S	5				
		Zone 49	SG-208-28"	S	5				
		Zone 50	SG-209-28"	S	5				
	Borg Warner, 16" Gate Valves LPSI Pump Suction	Zone 70	SI-241-16"	S	1	Examine the weld in 1 valve	*	100	
		Zone 71	SI-194-16"	S	1				
	Borg Warner, 6" Gate Valves SD Cooling Hx Outlet	Zone 74	SI-131-6"	S	1	Examine the weld in 1 valve	*	100	
		Zone 75	SI-131-6"	S	1				

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 2

TABLE 2-7

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
C700	EXAM CATEGORY C-H; ALL PRESSURE RETAINING COMPONENTS								
	SYSTEM FUNCTIONAL TESTS								
710 730 750 770	Pressure Vessels Piping Pumps Valves	Pressure Retaining Boundary	-	VT-2		Entire Pressure retaining boundary IWA-5000 IWC-5000	*	100	*EACH INSPECTION PERIOD
	SYSTEM HYDRO-TESTS								
720 740 760 780	Pressure Vessels Piping Pumps Valves	Pressure Retaining Boundary	-	VT-2		Entire Pressure retaining boundary IWA-5000 IWC-5000	**	100	**EACH INSPECTION INTERVAL

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 2

TABLE 2-IWF

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
* F110 F120 F130 F140 F210 F220 F230 F240 F310 F320 F330 F340 F350	EXAM CATEGORY F-A; PLATE AND SHELL TYPE SUPPORTS and EXAM CATEGORY F-B; LINEAR TYPE SUPPORTS and EXAM CATEGORY F-C; COMPONENT STANDARD SUPPORTS			**					REQUEST FOR RELIEF #1 & 3 *INCLUDES EXAM ITEMS IDENTIFIED, AS APPLICABLE. **NDE METHOD INCLUDES VT-4 EXAMS, WHERE APPLICABLE.
	41-Steam Generator 1	2-Snubbers	SN-79273-1	VT-3	2	2 0 0	One Two Three	100 100 100	
	42-Steam Generator 2	2-Snubbers	SN-79273-2	VT-3	2	0 2 0	One Two Three	- 100 100	
	43-Main Steam SG-1 90°F Inside Cont	Supports	SG-36	VT-3	9	3 2 4	One Two Three	33 55 100	
	44-Main Steam SG-1 270° Inside Cont	Supports	SG-33	VT-3	10	2 5 3	One Two Three	20 70 100	
	45-Main Steam SG-2 270° Inside Cont	Supports	SG-42	VT-3	9	3 3 3	One Two Three	33 67 100	
	46-Main Steam SG-2 90° Inside Cont.	Supports	SG-45	VT-3	10	2 5 3	One Two Three	20 70 100	
	47-Main Steam SG-1 270° MSSS	Supports	SG-206	VT-3	1	1 0 0	One Two Three	100 100 100	
	48-Main Steam SG-1 90° MSSS	Supports	SG-207	VT-3	1	0 1 0	One Two Three	- 100 100	
	49-Main Steam SG-2 270° MSSS	Supports	SG-208	VT-3	1	0 0 1	One Two Three	- - 100	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 2

TABLE 2-IWF

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
F110	*CONTINUED*								
F120									
F130	50-Main Steam SG-2	Supports	SG-209	VT-3	1	0	One	-	
F140	90° MSSS					0	Two	-	
F210						1	Three	100	
F220	51-Atmosphere Dump	Supports	SG-59	VT-3	2	1	One	50	
F230	SG-1		SG-70			1	Two	100	
F240						0	Three	100	
F310	52-Atmosphere Dump	Supports	SG-84	VT-3	2	0	One	-	
F320	SG-2		SG-103			0	Two	-	
F330						2	Three	100	
F340	53-Steam to Aux.	Supports	SG-81	VT-3	8	4	One	50	
F350	Feedwater System		SG-83			2	Two	75	
						2	Three	100	
	54-Feedwater SG-1	Supports	SG-2	VT-3	19	6	One	31	
	Inside Cont		SG-13			6	Two	63	
						7	Three	100	
	55-Feedwater SG-2	Supports	SG-5	VT-3	18	7	One	38	
	Inside Cont		SG-14			7	Two	78	
						4	Three	100	
	56-Feedwater SG-1	Supports	SG-202	VT-3	1	0	One	-	
	MSSS					1	Two	100	
						0	Three	100	
	57-Feedwater SG-2	Supports	SG-205	VT-3	1	0	One	-	
	MSSS					0	Two	-	
						1	Three	100	
	58-Aux. and Down-	Supports	SG-8	VT-3	22	7	One	32	
	comer Feedwater		AF-4			7	Two	64	
	SG-1 Inside Cont					8	Three	100	
	59-Aux. and Down-	Supports	SG-11	VT-3	22	6	One	27	
	comer Feedwater		AF-6			6	Two	54	
	SG-2 Inside Cont					10	Three	100	
	60-Downcomer Feed-	Supports	SG-200	VT-3	3	1	One	33	
	water SG-1 MSSS					0	Two	33	
						2	Three	100	
	61-Downcomer Feed-	Supports	SG-203	VT-3	3	0	One	-	
	water SG-2 MSSS					2	Two	66	
						1	Three	100	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 2

TABLE 2-IWF
PAGE 3 OF 4

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
F110	CONTINUED								
F120									
F130									
F140	62-Aux. Feedwater	Supports	AF-4	VT-3	4	1	One	25	
F210	SG-1 MSSS		AF-18			1	Two	50	
F220						2	Three	100	
F230									
F240	63-Aux. Feedwater	Supports	AF-6	VT-3	5	2	One	40	
F310	SG-3 MSSS		AF-16			2	Two	80	
F320						1	Three	100	
F330									
F340	64-Blowdown SG-1	Supports	SG-39	VT-3	37	12	One	32	
F350	Inside Cont.		SG-53			13	Two	67	
						12	Three	100	
	65-Blowdown SG-2	Supports	SG-48	VT-3	37	12	One	32	
	Inside Cont.		SG-52			12	Two	65	
						13	Three	100	
	68-Regenerative	Supports	SN-79313	VT-3	2	0	One	-	
	Heat Exchanger					1	Two	50	
						1	Three	100	
	70-LPSI Pump	Supports	SI-241	VT-3	32	9	One	28	
	Suction Loop 1		SI-369			9	Two	36	
			SI-239			14	Three	100	
			SI-2						
			SI-67						
	71-LPSI Pump	Supports	SI-194	VT-3	33	9	One	27	
	Suction Loop 2		SI-368			9	Two	56	
			SI-173			15	Three	100	
			SI-38						
			SI-34						
			SI-308						
	72-LPSI Pump	Supports	SI-87	VT-3	10*	4	One	40	*INCLUDES
	Discharge Loop 1		SI-78			4	Two	80	3 PUMP
						2	Three	100	SUPPORTS
	73-LPSI Pump	Supports	SI-129	VT-3	15*	2	One	17	
	Discharge Loop 2		SI-123			6	Two	58	
			SI-119			7	Three	100	
	74-SD Cooling Hx	Supports	SI-70	VT-3	26	8	One	31	
	Outlet Loop 1		SI-89			8	Two	62	
			SI-90			10	Three	100	
			SI-87						

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 2

TABLE 2-1WF

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
F110	CONTINUED								
F120									
F130									
F140	75-SD Cooling Hx	Supports	SI-72	VT-3	30	8	One	27	
F210	Outlet Loop 2		SI-134			9	Two	57	
F220			SI-135			13	Three	100	
F230			SI-129						
F240									
F310	76-LPSI Header 1A	Supports	SI-70	VT-3	21	6	One	29	
F320			SI-202			7	Two	62	
F330						8	Three	100	
F340									
F350	77-LPSI Header 1B	Supports	SI-71	VT-3	28	9	One	32	
			SI-220			9	Two	64	
						10	Three	100	
	78-LPSI Header 2A	Supports	SI-72	VT-3	15	4	One	27	
			SI-155			5	Two	60	
						6	Three	100	
	79-LPSI Header 2B	Supports	SI-73	VT-3	13	3	One	23	
			SI-174			5	Two	62	
						5	Three	100	
	80-Containment	Supports	SI-9	VT-3	*4	4	One	100	*INCLUDES
	Spray Pump					0	Two	100	3 PUMP
	Suction Loop 1					0	Three	100	SUPPORTS
	81-Containment	Supports	SI-34	VT-3	*7	0	One	-	
	Spray Pump		SI-33			3	Two	43	
	Suction Loop 2					4	Three	100	
	82-Containment	Supports	SI-79	VT-3	21	8	One	38	
	Spray Discharge		SI-82			5	Two	62	
	Loop 1		SI-89			8	Three	100	
	83-Containment	Supports	SI-119	VT-3	21	6	One	29	
	Spray Discharge		SI-134			7	Two	62	
	Loop 2		SI-147			8	Three	100	
	84-Containment	Supports	SI-7	VT-3	1	0	One	-	
	Sump Suction					1	Two	100	
	Loop 1					0	Three	100	
	85-Containment	Supports	SI-30	VT-3	1	0	One	-	
	Sump Suction					0	Two	-	
	Loop 2					1	Three	100	

SECTION 6.0

ASME CLASS 3

EXAMINATION SUMMARY

INDEX

TABLE		EXAM CATEGORY
3-1	D-A,	Systems in support of reactor shutdown function
	D-B,	Systems in support of emergency core cooling, containment heat removal, atmosphere cleanup, and reactor residual heat removal
	D-C,	Systems in support of residual heat removal from spent fuel storage pool
3-IWF	F-A,	Plate and shell type supports
	F-B,	Linear type supports
	F-C,	Component standard supports

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 3

TABLE 3-1

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
D120 thru D160 D220 thru D260 D320 thru D360	EXAMINATION CATEGORY D-A, SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION AND EXAMINATION CATEGORY D-B, SYSTEMS IN SUPPORT OF EMERGNECY CORE COOLING, CONTAINMENT HEAT REMOVAL, ATMOSPHERE CLEANUP, AND REACTOR RESIDUAL HEAT REMOVAL AND EXAMINATION CATEGORY D-C, SYSTEMS IN SUPPORT OF RESIDUAL HEAT REMOVAL FROM SPENT FUEL STORAGE POOL					ASME CLASS 3 SYSTEMS ARE IDENTIFIED ON THE ISI BOUNDARY DRAWINGS CONTAINED IN SECTION 10.0.			REQUEST FOR RELIEF #1 & #3
	All Class 3 Systems (Except Auxiliary Feedwater)	Integrally Welded Attachments	All lines greater than ¼" nominal pipe size	VT-3	All	100%	Each Inspection Interval	100%	
	Auxiliary Feedwater Systems	Integrally Welded Attachments	All lines	VT-3	All	100%	Each Inspection Interval	100%	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 3

TABLE 3-1
PAGE 2 OF 2

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
	EXAMINATION CATEGORY D-A, SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION AND EXAMINATION CATEGORY D-B, SYSTEMS IN SUPPORT OF EMERGENCY CORE COOLING, CONTAINMENT HEAT REMOVAL, ATMOSPHERE CLEANUP, AND REACTOR RESIDUAL HEAT REMOVAL AND EXAMINATION CATEGORY D-C, SYSTEMS IN SUPPORT OF RESIDUAL HEAT REMOVAL FROM SPENT FUEL STORAGE POOL								
	SYSTEM INSERVICE TESTS								
D110 D210 D310	Pressure Retaining Components	Pressure Retaining Boundary	-	VT-2	-	Entire Pressure Retaining Boundary IWA-5000 IWD-5000	*	100	*EACH INSPECTION PERIOD.
	SYSTEM HYDRO-TESTS								
D110 D210 D310	Pressure Retaining Components	Pressure Retaining Boundary	-	VT-2	-	Entire Pressure Retaining Boundary IWA-5000 IWD-5000	**	100	**EACH INSPECTION INTERVAL.

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 3

TABLE 3-IWF
PAGE 1 OF 1

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
F110 F120 F130 F140 F210 F220 F230 F240 F310 F320	EXAM CATEGORY F-A; PLATE AND SHELL TYPE SUPPORTS AND EXAM CATEGORY F-B; LINEAR TYPE SUPPORTS AND EXAM CATEGORY F-C; COMPONENT STANDARD SUPPORTS			***					*INCLUDES EXAM ITEMS IDENTIFIED, AS APPLICABLE. **NDE METHOD INCLUDES VT-4 EXAMS, WHERE APPLICABLE.
F330 F340 F350	All Class 3 Systems (Except Auxiliary Feedwater)	Support Components	All lines greater than 4" nominal pipe size	VT-3	All	100%	Each Inspection Interval	100%	REQUEST FOR RELIEF #3
	Auxiliary Feedwater Systems	Support Components	All lines	VT-3	All	100%	Each Inspection Interval	100%	

SECTION 7.0

AUGMENTED HIGH ENERGY PIPING

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 2

TABLE 2-AIIE

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
	AUGMENTED EXAMINATIONS OF HIGH ENERGY PIPING				(*)				(*)IDENTIFIES THE NUMBER OF WELDS THAT ARE NOT ASME CLASSIFIED
510	PIPING WELDS ≤ 1/2 IN. NOMINAL WALL THICKNESS								
511 512	CIRCUMFERENTIAL AND **LONGITUDINAL WELDS								**NONE
	51-Bypass UV-180	Butt Welds 4" × .337"	SG-95-4"	S,Vol	(12)	0	One	-	
						12	Two	100	
						0	Three	100	
	52-Bypass UV-171	Butt Welds 4" × .337"	SG-100-4"	S,Vol	(12)	0	One	-	
						0	Two	-	
						12	Three	100	
	53-Steam to Aux Feedwater	Butt Welds 6" × .432"	SG-81-6"	S,Vol	14	10	One	35	
			SG-83-6"	S,Vol	15	9	Two	68	
						10	Three	100	
520	PIPING WELDS > 1/2 IN NOMINAL WALL THICKNESS								
521 522	CIRCUMFERENTIAL AND *LONGITUDINAL WELDS								*100% OF ALL INTERSECTING LONGITUDINAL WELDS WILL BE EXAMINED.
	47-Main Steam SG-1 270° MSSS	Butt Welds	SG-206-28"	S,Vol	4(1)	12	One	100	
			SG-206-12"	S,Vol	2	0	Two	100	
			SG-206-6"	S,Vol	5	0	Three	100	
	48-Main Steam SG-1 90° MSSS	Butt Welds	SG-207-28"	S,Vol	4(1)	0	One	-	
			SG-207-12"	S,Vol	2	12	Two	100	
			SG-207-6"	S,Vol	5	0	Three	100	
	49-Main Steam SG-2 270° MSSS	Butt Welds	SG-208-28"	S,Vol	4(1)	0	One	-	
			SG-208-12"	S,Vol	2	0	Two	-	
			SG-208-6"	S,Vol	5	12	Three	100	
	50-Main Steam SG-2 90° MSSS	Butt Welds	SG-209-28"	S,Vol	4(1)	0	One	-	
			SG-209-12"	S,Vol	2	0	Two	-	
			SG-209-6"	S,Vol	5	12	Three	100	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 2

TABLE 2-AIIE
PAGE 2 OF 3

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
521 522	CONTINUED								
	51-Atmospheric Dump SG-1	Butt Welds 12" x .844"	SG-59-12" SG-70-12"	S,Vol S,Vol	11 13	11 13 0	One Two Three	46 100 100	
	52-Atmospheric Dump SG-2	Butt Welds 12" x .844"	SG-84-12" SG-103-12"	S,Vol S,Vol	13 11	0 0 24	One Two Three	- - 100	
	56-Feedwater SG-1 MSSS	Butt Welds	SG-201-24" SG-202-24" SG-224-24"	S,Vol S,Vol S,Vol	2 2 (2)	4 2 0	One Two Three	67 100 100	
	57-Feedwater SG-2 MSSS	Butt Welds	SG-204-24" SG-205-24" SG-225-24"	S,Vol S,Vol S,Vol	2 2 (2)	0 0 6	One Two Three	- - 100	
	60-Downcomer Feed-water SG-1 MSSS	Butt Welds 8" x .719"	SG-200-8" SG-8-8"	S,Vol S,Vol	(8) 6	9 5 0	One Two Three	64 100 100	
	61-Downcomer Feed-water SG-2 MSSS	Butt Welds 8" x .719"	SG-203-8" SG-11-8"	S,Vol S,Vol	(8) 6	0 5 9	One Two Three	- 36 100	
	66-Blowdown SG-1 MSSS	Butt Welds	SG-39-6"	S,Vol	2(13)	9 6 0	One Two Three	60 100 100	
	67-Blowdown SG-2 MSSS	Butt Welds	SG-48-6"	S,Vol	2(10)	0 6 6	One Two Three	- 50 100	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY

ASME CLASS 2

TABLE 2-AHE

ASME ITEM NO.	ZONE•COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT	INSPECTION PERIOD	RUNNING %	REMARKS AND RELIEF REQUESTS
530	Pipe Branch Connections								
531 532	Circumeferential and *Longitudinal Welds								*SCHEDULED UNDER C5.21 AND C5.22
	47-Main Steam SG-1 270° MSSS	Sweepolets	SG-206-28"	S,Vol	7	7	One	100	
						0	Two	100	
						0	Three	100	
	48-Main Steam SG-1 90° MSSS	Sweepolets	SG-207-28"	S,Vol	8(1)	0	One	-	
						9	Two	100	
						0	Three	100	
	49-Main Steam SG-2 270° MSSS	Sweepolets	SG-208-28"	S,Vol	8(1)	0	One	-	
						0	Two	-	
						9	Three	100	
	50-Main Steam SG-2 90° MSSS	Sweepolets	SG-209-28"	S,Vol	7	0	One	-	
						0	Two	-	
						7	Three	100	

SECTION 8.0

RHR, ECCS, AND CHR PIPING

ANPP

PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY
(RHR, ECCS, and CHR SYSTEMS)

ASME CLASS 2

TABLE 2-CFR

ASME ITEM NO.	ZONE COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAM AMOUNT 40 YR	EXAM AMOUNT 10 YR	INSPECTION PERIOD	(40 YR) 10 YR %	REMARKS AND RELIEF REQUESTS
C500	EXAM. CATEGORY C-F*; PRESSURE RETAINING WELDS IN PIPING	NOTE 2		NOTE 1				NOTE 3		
						*EXTENT OF EXAMS WERE DETERMINED USING THE 1974 EDITION THRU SUMMER 1975 ADDENDA OF ASME SECTION XI				
510	PIPING WELDS ≤ 1/2 IN. NOMINAL WALL THICKNESS					**2.5T MIN. FROM EACH SCHEDULED CIRC WELD INTERSECTION WILL BE EXAMINED.				
511 512	CIRCUMFERENTIAL AND **LONGITUDINAL WELDS ('75 CATEGORY C-F)					NOTE 1: AN AUGMENTED VOLUMETRIC EXAMINATION OF THE CIRCUMFERENTIAL WELDS WILL BE PERFORMED IN CONJUNCTION WITH THE REQUIRED SURFACE EXAMS WHEN PRACTICAL (NOTE IE BULLETIN 79-17)				
						NOTE 2: ALL LINES ARE CONSIDERED MULTIPLE SYSTEMS UNLESS NOTED				
						NOTE 3: NUMBERS IN (*) ARE 40 YEAR TOTALS.				
	70 & 71 LPSI Pump Suction	Butt Welds			(26)	(13)	(3)		(100)	
		10" x .250"	SI-369	S,Vol	9	4	1	One	8	
		6" x .280"*	SI-368	S,Vol	17	9	1	Two	15	*1 WELD PER LINE
							1	Three	23	
		Butt Welds			(33)	(16)	(4)		(100)	
		16" x .312	SI-241	S,Vol	15	8	1	One	6	
			SI-194	S,Vol	16	8	1	Two	13	
			SI-173	S,Vol	2	-	2	Three	25	
		Butt Welds			(21)	(11)	(3)		(100)	
		10" x .250	SI-239	S,Vol	10	5	1	One	9	
		10" x .365*	SI-173	S,Vol	11	6	1	Two	18	*1 WELD PER LINE
							1	Three	27	
		Butt Welds			(14)	(7)	(2)		(100)	
		12" x .250	SI-2	S,Vol	10	5	1	One	14	
			SI-38	S,Vol	4	2	0	Two	14	
							1	Three	29	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY
(RHR, ECCS, and CHR SYSTEMS)

ASME CLASS 2

TABLE 2-CFR
PAGE 2 OF 5

ASME ITEM NO.	ZONE COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAM AMOUNT 40 YR	EXAM AMOUNT 10 YR	INSPECTION PERIOD	(40 YR) 10 YR %	REMARKS AND RELIEF REQUESTS
511 512	CONTINUED									
	70 & 71 LPSI Pump Suction (cont'd)	Butt Welds 18" x .312			(50)	(25)	(7)		(100)	
			SI-241	S,Vol	24	12	2	One	8	
			SI-194	S,Vol	26	13	3	Two	20	
							3	Three	32	
		Butt Welds 16" x .312			(18)	(9)	(3)		(100)	
			SI-67	S,Vol	9	5	1	One	11	
		14" x .312*	SI-34	S,Vol	9	4	1	Two	18	*2 WELDS PER LINE.
							1	Three	27	
		Butt Welds 20" x .375"			(20)	(10)	(3)		(100)	
			SI-307	S,Vol	10	5	1	One	10	
			SI-308	S,Vol	10	5	1	Two	20	
							1	Three	30	
		Butt Welds 14" x .312			(12)	(6)	(2)		(100)	
			SI-307	S,Vol	6	3	1	One	14	
			SI-308	S,Vol	6	3	0	Two	14	
							1	Three	29	
	72 & 73 LPSI Pump Discharge	Butt Welds 8" x .322"			(4)	(4)	(2)		(100)	
			SI-87	S,Vol	2	2	2	One	50	
			SI-129	S,Vol	2	2	0	Two	50	
							0	Three	50	
		Butt Welds 10" x .365"			(26)	(14)	(3)		(100)	
			SI-87	S,Vol	14	7	1	One	7	
			SI-129	S,Vol	12	7	1	Two	14	
							1	Three	21	
		Butt Welds 10" x .365"			(28)	(15)	(4)		(100)	
			SI-78	S,Vol	14	7	1	One	7	
			SI-123	S,Vol	14	8	2	Two	20	
							1	Three	27	
		Butt Welds 10" x .365"			(12)	(6)	(2)		(100)	
			SI-79	S,Vol	6	3	1	One	14	
			SI-119	S,Vol	6	3	1	Two	29	
							0	Three	29	
		Butt Welds 20" x .500"			(8)	(4)	(2)		(100)	
			SI-78	S,Vol	3	2	0	One	-	
			SI-123	S,Vol	5	2	1	Two	20	
							1	Three	40	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY
(RHR, ECCS, and CHR SYSTEMS)

ASME CLASS 2

TABLE 2-CFR

ASME ITEM NO.	ZONE COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAM AMOUNT 40 YR	EXAM AMOUNT 10 YR	INSPECTION PERIOD	(40 YR) 10 YR %	REMARKS AND RELIEF REQUESTS
511 512	CONTINUED									
	74 & 75 SD Cooling Hx Outlet	Butt Welds 20" x .500"			(48)	(24)	(6)		(100)	
			SI-70	S,Vol	27	11	2	One	8	
			SI-72	S,Vol	21	11	2	Two	17	
							2	Three	25	
		Butt Welds 16" x .375			(8)	(4)	(1)		(100)	
			SI-70	S,Vol	4	2	1	One	25	
			SI-72	S,Vol	4	2	0	Two	25	
							0	Three	25	
		Butt Welds 10" x .365			(16)	(8)	(2)		(100)	
			SI-89	S,Vol	8	4	1	One	13	
			SI-134	S,Vol	8	4	0	Two	13	
							1	Three	25	
		Butt Welds 6" x .280"			(8)	(4)	(1)		(100)	
			SI-131	S,Vol	4	2	1	One	25	
			SI-131	S,Vol	4	2	0	Two	25	
							0	Three	25	
		Butt Welds 14" x .375"			(21)	(10)	(3)		(100)	
			SI-90	S,Vol	10	5	1	One	10	
			SI-135	S,Vol	11	5	1	Two	20	
							1	Three	30	
		Butt Welds 10" x .365"			(38)	(19)	(5)		(100)	
			SI-87	S,Vol	22	11	1	One	5	
			SI-129	S,Vol	16	8	2	Two	15	
							2	Three	25	
	76, 77, 78 & 79 LPSI Headers 1A, 1B, 2A and 2B	Butt Welds 12" x .375"			(38)	(10)	(3)		(100)	
			SI-70	S,Vol	9	2	1	One	10	
			SI-71	S,Vol	8	2	1	Two	20	
			SI-72	S,Vol	15	4	1	Three	30	
			SI-73	S,Vol	6	2				
	77 & 78 LPSI Headers 1B and 2A	Butt Welds 10" x .365"			(6)	(3)	(1)		(100)	
			SI-71	S,Vol	2	1	0	One	-	
			SI-172	S,Vol	4	2	1	Two	33	
							0	Three	33	
	80 & 81 Containment Spray Pump Suction	Butt Welds 14" x .312"			(10)	(5)	(2)		(100)	
			SI-67	S,Vol	5	2	1	One	20	
			SI-34	S,Vol	5	3	1	Two	40	
							0	Three	40	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY
(RHR, ECCS, and CHR SYSTEMS)

ASME CLASS 2

TABLE 2-CFR

ASME ITEM NO.	ZONE COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAM AMOUNT 40 YR	EXAM AMOUNT 10 YR	INSPECTION PERIOD	(40 YR) 10 YR %	REMARKS AND RELIEF REQUESTS
511 512	CONTINUED									
	80 & 81 Containment Spray Pump Suction	Butt Welds 18" x .312"			(17)	(9)	(3)		(100)	
			SI-9	S,Vol	9	5	1	One	11	
			SI-33	S,Vol	8	4	1	Two	22	
							1	Three	33	
		Butt Welds 14" x .312"			(8)	(4)	(1)		(100)	
			SI-9	S,Vol	4	2	0	One	-	
			SI-33	S,Vol	4	2	0	Two	-	
							1	Three	25	
	82 & 83 Containment Spray Pump Discharge	Butt Welds 10" x .365" 8" x .322" *			(61)	(31)	(8)		(100)	
			SI-79	S,Vol	31	16	3	One	10	
			SI-119	S,Vol	30	15	3	Two	19	*INCLUDES 1 WELD PER LINE
							3	Three	29	
		Butt Welds 10" x .365"			(63)	(32)	(8)		(100)	
			SI-82,89	S,Vol	35	18	2	One	6	
			SI-134,147	S,Vol	28	14	3	Two	16	
							3	Three	25	
		Butt Welds 8" x .322"			(4)	(2)	(1)		(100)	
			SI-89	S,Vol	2	1	0	One	-	
			SI-134	S,Vol	2	1	1	Two	50	
							0	Three	50	
	84 & 85 Containment Sump Suction	Butt Welds 24" x .375"			(8)	(4)	(1)		(100)	
			SI-7	S,Vol	4	2	0	One	-	
			SI-30	S,Vol	4	2	0	Two	-	
							1	Three	25	
520	PIPING WELDS OVER 1/2 IN. NOMINAL WALL THICKNESS									*2.5T MIN. FROM EACH SCHEDULED CIRC. WELD INTERSECTION WILL BE EXAMINED.
521 522	CIRCUMFERENTIAL AND *LONGITUDINAL WELDS									
	('75 Category C-F)									
	70 & 71 LPSI Pump Suction	Butt Welds 16" x 1.592"			(4)	(2)	(0)		(100)	
			SI-241	S,Vol	2	1	0	One	-	
			SI-194	S,Vol	2	1	0	Two	-	
							0	Three	-	

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PALO VERDE NUCLEAR GENERATING STATION
10 YEAR INTERVAL — EXAMINATION SUMMARY
(RHR, ECCS, and CHR SYSTEMS)

ASME CLASS 2

TABLE 2-CFR

ASME ITEM NO.	ZONE COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION, LINE NO., OR SERIAL NO.	NDE METHOD	TOTAL ITEMS	EXAM AMOUNT 40 YR	EXAM AMOUNT 10 YR	INSPECTION PERIOD	(40 YR) 10 YR %	REMARKS AND RELIEF REQUESTS
520										
521										
522	CONTINUED									
	76, 77, 78 & 79 LPSI Headers 1A, 1B, 2A and 2B	Butt Welds 12" x 1.125"			(45)	(12)	(3)		(100)	
			SI-70 & 202	S,Vol	11	3	1	One	8	
			SI-71 & 220	S,Vol	12	3	1	Two	17	
			SI-72 & 155	S,Vol	12	3	1	Three	25	
			SI-73 & 174	S,Vol	10	3				
		Butt Welds 12" x 1.312"			(91)	(24)	(6)		(100)	
			SI-202	S,Vol	21	5	2	One	8	
			SI-220	S,Vol	34	10	2	Two	17	
			SI-155	S,Vol	21	5	2	Three	25	
			SI-174	S,Vol	15	4				
	84 & 85 Containment Sump Suction	Butt Welds 24" x .562"			(4)	(2)	(1)		(100)	
			SI-307	S,Vol	2	1	0	One	-	
			SI-308	S,Vol	2	1	1	Two	50	
							0	Three	50	
530	PIPE BRANCH CONNECTIONS.									*2.5T MIN. FROM EACH WELD INTERSECTION WILL BE EXAMINED.
531	CIRCUMFERENTIAL AND									
532	*LONGITUDINAL WELDS									
	70 & 71 LPSI Pump Suction	Sweepolets 18" x 12"			(2)	(1)	(0)		(100)	
			SI-241	S	1	1	0	One	-	
			SI-194	S	1	0	0	Two	-	
							0	Three	-	
	72 & 73 LPSI Pump Discharge	Sweepolets 20" x 10"			(4)	(2)	(1)		(100)	
			SI-78	S	2	1	1	One	50	
			SI-123	S	2	1	0	Two	50	
							0	Three	50	
	74 & 75 SD Cooling Hx Outlet	Sweepolets 20" x 6" 20" x 10" 20" x 12" 20" x 14"			(10)	(5)	(2)		(100)	
			SI-70	S	5	2	1	One	20	
			SI-72	S	5	3	0	Two	20	
							1	Three	40	

SECTION 9.0

REQUESTS FOR RELIEF

RELIEF REQUEST
INDEX

NUMBER	DESCRIPTION
1.	Hydraulic and mechanical snubbers will be tested in accordance with PVNGS Technical Specifications.
2.	Volumetric Examinations of nozzle inside radius sections will be performed only on specified nozzles.
3.	Insulation will not be removed for visual examinations of welded or mechanical attachments.

RELIEF REQUEST NO. 1

COMPONENT OR ITEM	CODE CLASS	PROGRAM TABLE	CODE ITEM	EXAM CATEGORY
HYDRAULIC AND MECHANICAL SNUBBERS	1	1-IWF	N/A	N/A
	2	2-IWF	N/A	N/A
	3	3-IWF	N/A	N/A

CODE REQUIREMENT

Perform inservice functional testing of hydraulic and mechanical snubbers in accordance with IWF-5000.

BASIS

A detailed and comprehensive testing program for snubbers is contained in the PVNGS Technical Specifications.

ALTERNATE EXAMINATION

The requirements for testing snubbers will be in accordance with the PVNGS Technical Specifications, Section 4.7.9.

SCHEDULE FOR IMPLEMENTATION

First Ten Year Inspection Interval

RELIEF REQUEST NO. 2

COMPONENT OR ITEM	CODE CLASS	PROGRAM TABLE	CODE ITEM	EXAM CATEGORY
NOZZLE INSIDE RADIUS SECTIONS				
PRESSURIZER	1	1-3	B3.120	B-D
STEAM GENERATOR	1	1-3	B3.140	B-D
STEAM GENERATOR	2	1-3	C2.22	C-B
SHUT DOWN COOLING HEAT EXCHANGERS	2	1-3	C2.22	C-B

CODE REQUIREMENT

Perform volumetric examination of the nozzle inside radius section.

BASIS

The volumetric examinations of the nozzle inside radius sections on the referenced vessels (other than those identified under Alternative Examination) will not be performed. For nozzles that do not experience a temperature gradient in a cycling environment that could possibly induce a thermal fatigue mechanism, there is no technical basis for performing these examinations. The industry has evidence that problems can arise in inner radius areas but they have all been associated with the cyclic temperature gradients, and generally in extremely high cyclic environments. In addition, the unique geometrics, large metal paths, compound angles, etc., that have been encountered while performing an ultrasonic examination of the inner radius sections have essentially prevented a code required or recommended method from being prepared and/or referenced in ASME Sectoin XI. These examinations also require extremely large amounts of time, effort, expense, and radiation exposure.(expected to be as high as 1 to 4 man REM per nozzle).

ALTERNATE EXAMINATION

The volumetric examination will be performed to the maximum extent practical on the steam generator feedwater nozzles (Table 2.2) and on the pressurizer spray nozzle (Table 1-3).

SCHEDULE FOR IMPLEMENTATION

First Ten Year Interval

RELIEF REQUEST NO. 3

COMPONENT OR ITEM	CODE CLASS	PROGRAM TABLE	CODE ITEM	EXAM CATEGORY
SUPPORT COMPONENTS	1	1-IWF	ALL ITEMS	F-A,F-B & F-C
	2	2-IWF		F-A,F-B & F-C
	3	3-IWF		F-A,F-B & F-C
INTEGRAL ATTACHMENTS	3	3-1		D-A,D-B & D-C

CODE REQUIREMENTS

Perform visual examinations (VT-3) of the mechanical or welded attachments to the pressure retaining component on insulated systems.

BASIS

The visual examinations of the mechanical or welded attachments will be performed to the extent practical. The insulation will not be removed to perform these examinations. It has been our experience that any loss of support capability or adequate restraint can usually be detected through the examination of uninsulated portions of the support, the accessible portions of the attachments through the insulation gaps, and or the surrounding insulation.

ALTERNATE EXAMINATIONS

The mechanical and welded attachments will be visually examined to the extent practical. The insulation will be removed from around the support attachment for further examinations whenever the mechanical connections can not be examined or whenever an abnormality is detected.

SCHEDULE FOR IMPLEMENTATION

First Ten Year Inspection Interval

SECTION 10.0

ISI BOUNDARY DRAWINGS

NOTE: See ISI Drawings for Unit 1 ISI Program submitted 8-26-85 (Letter # ANPP-33266-EEVB/KLM).