

UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION V
1990 N. CALIFORNIA BOULEVARD
SUITE 202, WALNUT CREEK PLAZA
WALNUT CREEK, CALIFORNIA 94596



8/29/80

MEMORANDUM FOR: G. S. Spencer, Chief, Reactor Construction and
Engineering Support Branch

FROM: Regional Evaluation Review Board - Palo Verde

SUBJECT: SEMI-ANNUAL REGIONAL EVALUATION OF PALO VERDE
UNITS 1, 2 AND 3

The Regional Evaluation Review Board for Palo Verde met on May 30, 1980, to perform the evaluation of project activities for the period of May 1979 through May 1980. The board reviewed the following areas:

- a. Previous enforcement actions and results (including escalated enforcement actions).
- b. Licensee's responsiveness and ability to execute corrective actions identified by the NRC and licensee management systems.
- c. Licensee actions in the area of IE Bulletins, licensee event (Part 21 and 50.55(e)) reports.

It is the opinion of the Board, based on the results of the review, that the licensee's performance is generally satisfactory and that strong effort by the licensee should continue to ensure that current and future work is adequately controlled. In addition, it is the opinion of the Board that NRC:RV inspection efforts should be increased in the areas of containment dome liner installation, piping hangers and supports, and component storage and maintenance. Rationale for these actions is provided in the enclosed Palo Verde Evaluation Form.

G. S. Spencer

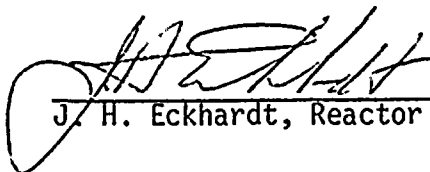
- 2 -

Licensee actions related to IE Bulletins and licensee event reports were generally satisfactory. No specific change in licensee programs or NRC inspections in these areas is recommended at this time.

Regional Review Board Members:



R. T. Dodds, Chief, Engineering Support Section



J. H. Eckhardt, Reactor Inspector



L. E. Vorderbrueggen, Resident Inspector

Enclosure:
Palo Verde Evaluation Form
for Appraisal Period 5/79-5/80



E. Management Conferences Held During Past Twelve Months

5/11/79 Meeting held in Region V office concerning Unit 1 dome liner plate.

F. Justification of Evaluations of Functional Areas Categorized as Requiring an Increase in Inspection Frequency/Scope (See evaluation sheet)Containment Dome Liner Installation - Units 2 & 3

On Unit 1, severe misfit of dome segments led to Region V concern, and development of additional procedures and construction tolerances to prevent building in high residual stresses in the liner plate.

Piping Hangers and Supports

To date there have been occasions where weld sizes have not been in compliance with requirements. In addition, 50.55(e) reports have identified problems with support design and welding. This is not just a Palo Verde problem, but appears to be industry wide and needs additional inspection effort.

Component Storage After Warehouse Release

Problems have been encountered with leaving pipe openings uncovered, installed equipment improperly covered, pipe spools and weld electrode carelessly handled/controlled.



FUNCTIONAL AREA	Inspection Frequency and/or Scope		
	Increase	No. Change	Decrease
1. Quality Assurance, Management & Training		X	
2. Substructure & Foundations			X
3. Concrete			X
4. Liner (Containment & Others)	X (Dome Liner)		
5. Safety-Related Structures		X	
6. Piping & Hangers (Reactor Coolant & Others)	X (Hangers and Supports)		
7. Safety-Related Components (Vessel, Internals & HVAC)		X	
8. Electrical Equipment		X	
9. Electrical (Tray & Wire)		X	
10. Instrumentation		X	
11. Fire Protection		X	
12. Preservice Inspection		X	
13. Reporting		X	
14. Storage/housekeeping	X		

(Designated Regional Manager)

Date



17. LISTS OF NONCOMPLIANCE

[illegible]



50.55(e) REPORTS

REPORT	INITIAL NOTIFICATION	REPORT DATE	DESCRIPTION
1	4/27/79	6/4/79	Potential - Unit 1 and 2 polar crane support girder welding. Determined to <u>not</u> be reportable per 50.55(e) requirements.
2	1/31/80	2/6/80	Safety related pipe support assembly welding.
3	3/6/80	3/24/80	Class 1E, 600v, power cable. Factory splicing (insulation material).
4	2/7/80	4/10/80	Inspection of ASME Sec III, Class 3 pipe welds.
5	5/27/80	No report	Seismic category instrument support design calculations show design to be inadequate.
6	5/27/80	"	Error in calculation for Seismic I instrument tube support.
7	5/27/80	"	Undersized fillet welds for structural steel with respect to AWS D.1.1 and AISC.
8	5/27/80	"	ITT Grinnell sway struts have undersized fillet welds with respect to ASME Sec III.
9	5/28/80	"	Main steam system welds (c) made without considering or documenting interpass temperature as required by ASME Sec III.



MC 2955

APPENDIX B

REGION V

LICENSEE PERFORMANCE EVALUATION (CONSTRUCTION)

Facility: Palo Verde Nuclear Generating Station

Licensee: Arizona Public Service Company

Unit Identification: Units 1, 2 and 3

<u>Docket No.</u>	<u>CP No./Date of Issuance</u>	<u>Unit No.</u>
50-528	CPPR-141 - May 25, 1976	1
50-529	CPPR-142 - May 25, 1976	2
50-530	CPPR-143 - May 25, 1976	3

<u>Reactor Information:</u>	<u>Unit 1</u>	<u>Unit 2</u>	<u>Unit 3</u>
NSSS	CE(System 80)	CE(System 80)	CE(System 80)
MWt	3800 MWt	3800 MWt	3800 MWt
	1307 MWe	1307 MWe	1307 MWe

Appraisal Period: May 1979 - May 1980 (Inclusive)

Appraisal Completion Date: May 30, 1980

Review Board Members:

- R. T. Dodds, Chief, Engineering Support Section
- J. H. Eckhardt, Reactor Inspector
- L. E. Vorderbrueggen, Resident Inspector



A. Number and Nature of Noncompliance Items

Noncompliance category:	<u>Unit 1</u>	<u>Unit 2</u>	<u>Unit 3</u>
Violations	0	0	0
Infractions	5	3	0
Deficiencies	2	1	0
Areas of Noncompliance: (List Areas as Required)	<u>Unit 1 (Points)</u>	<u>Unit 2 (Points)</u>	<u>Unit 3 (Points)</u>

See attached chart.

Total Points	<u>50</u>	<u>30</u>	<u>0</u>
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B. Number and Nature of Deficiency Reports

See attached chart.

C. Bulletins

All applicable bulletins have been responded to in a satisfactorily and timely manner.

D. Escalated Enforcement ActionsCivil Penalties

None

Orders

None

Immediate Action Letters

Memo of understanding issued 5/9/79 concerning Unit 1 dome liner plate (attached).

