

PALO VERDE NUCLEAR GENERATING STATION

FACSIMILE TRANSMITTAL SHEET

TO:	Headquarters Operations Center	FROM:	Dan Marks, Compliance Lead
COMPANY:	Nuclear Regulatory Commission	DATE:	6/18/2005
FAX NUMBER:	301-816-5151	TOTAL NO. OF PAGES INCLUDING COVER:	3
PHONE NUMBER:	301-816-5100	SENDER'S REFERENCE NUMBER:	
RE:	ENS ID 41793	YOUR REFERENCE NUMBER:	

☐ URGENT ☐ FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY ☐ PLEASE RECYCLE

NOTES/COMMENTS:

NRC Headquarters Operations Center requested vendor-related information be provided on 06/18/2005.

The attached letter from the vendor, Framatome ANP, details the answers to the four questions.

Palo Verde requests this information be forwarded to the requesting entity.

If there are further questions, I may be contacted at (602) 509-6195, or as always, the Unit 3 Control Room via the ENS.

IE19



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Stocking Distributors of: ASCO Hydramotors® - ASCO Solenoid Valves - RCP Seal and Motor Parts - Filter Cartridges - Limitorque Actuators, Parts & Motors - Velan Valves - Anderson Greenwood Crosby (Yarway) Valves and Parts - Cutler-Hammer Electrical Products - Fluid Sealing Products - EMPATH - UltraCheck Diagnostic Systems - Stearns-Roger - Reliance & Siemens Electric Motors - Pressurizer Heaters

June 18, 2005
NPC-JFC 05-036

Mr. David Fan
Arizona Public Service
P.O. Box 52034
Phoenix, AZ 85072-2034

Subject: NRC Operations Center Request

Reference: APS Purchase Order #500274481 for Unit 3 Pressurizer Heaters

Dear Mr. Fan:

The following information is provided in response to the request for additional information regarding the failure of pressurizer heaters provided to APS - Palo Verde Unit 3 under the above referenced purchase order

Question 1: Part Number of Heaters

Response 1: The identifiers associated with this heater element assembly are as follows:

Framatome ANP

- Part Number 1251282-001
- Drawing Number 02-5042376D, Rev. 3

Question 2: Component Numbers.

Response 2: Serial Numbers associated with the heaters supplied under the above referenced purchase order are 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020, 021, 022, 023, 024, 026, 027, 028, 029, 030, 031, 032, 033, 034, 035, 036, and 037.

Question 3: Any other information that identifies the heaters.

Response 3: The Palo Verde heaters can be further described as follows:

Power: 50 kW minimum, 52.5 kW nominal
Voltage: 480 VAC single phase

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Question 4: Other utilities that may have been supplied the same style heaters.

Response 4: No other licensees have been provided with the same style (identical) pressurizer heaters.

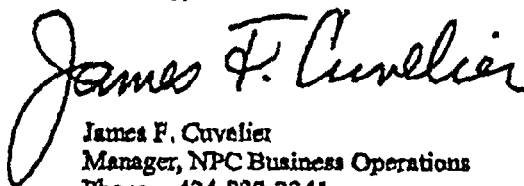
The Palo Verde pressurizer heaters have internals manufactured by Thermocoax and pressure boundary component design and fabrication by FANP. Waterford 3 (Entergy) and SONGS (Southern California Edison) have been provided with 52.5 kW (nominal) pressurizer heaters with internals manufactured by Thermocoax and pressure boundary component design and fabrication by FANP. However, these heaters are different from those provided to Palo Verde in that both the Waterford and SONGS heaters are 480 volt, 3-phase heaters. There is further differentiation between the heaters provided to Waterford and SONGS associated with electrical connection configuration.

The critical aspect of the differences in the as-built configurations as related to the current discovery process of the heater failures at Palo Verde and Waterford can be summarized as follows:

- The design variance from the Framatome ANP specification requirements that has been identified with respect to the Palo Verde and Waterford heaters is that the transition from the heated portion to the cold portion of the individual heating elements for the as supplied heaters is located within the "Cold" section of the heater assembly. The impact of this variance is currently being evaluated.
- The pressurizer heaters that have been supplied to SONGS and installed in the fall of 2004 by Framatome ANP are not subject to the design variance identified above. The transition region from the heated portion to the cold portion of the individual heating elements for the heaters supplied to SONGS is contained within the "Heated" section of the heater assembly as specified by Framatome ANP.

Please contact me if there are any questions.

Sincerely,



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