Mr. James M. Levine Executive Vice President, Nuclear Arizona Public Service Company Post Office Box 53999 Phoenix, Arizona 85072-3999

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION (RAI) FOR PRESSURIZER AUXILIARY

SPRAY LINE THERMAL STRATIFICATION FOR THE PALO VARDE NUCLEAR

GENERATING STATION (TAC NOS. M88682, M88683, AND M88684)

Dear Mr. Levine:

We have completed our review of your letter dated September 28, 1996. To assist the staff in completing its evaluation of the conclusions reached in your letter, we request that you provide the additional information requested in the enclosure.

Please contact me at 301-415-1352 if you have any questions.

Sincerely.

Original signed by: James W. Clifford, Senior Project Manager Project Directorate IV-2 Division of Reactor Projects - III/IV Office of Nuclear Reactor Regulation

Docket Nos. STN 50-528, STN 50-529 and STN 50-530

Enclosure: Request for Additional

Information

ACRS

cc w/encl: See next page 🕟

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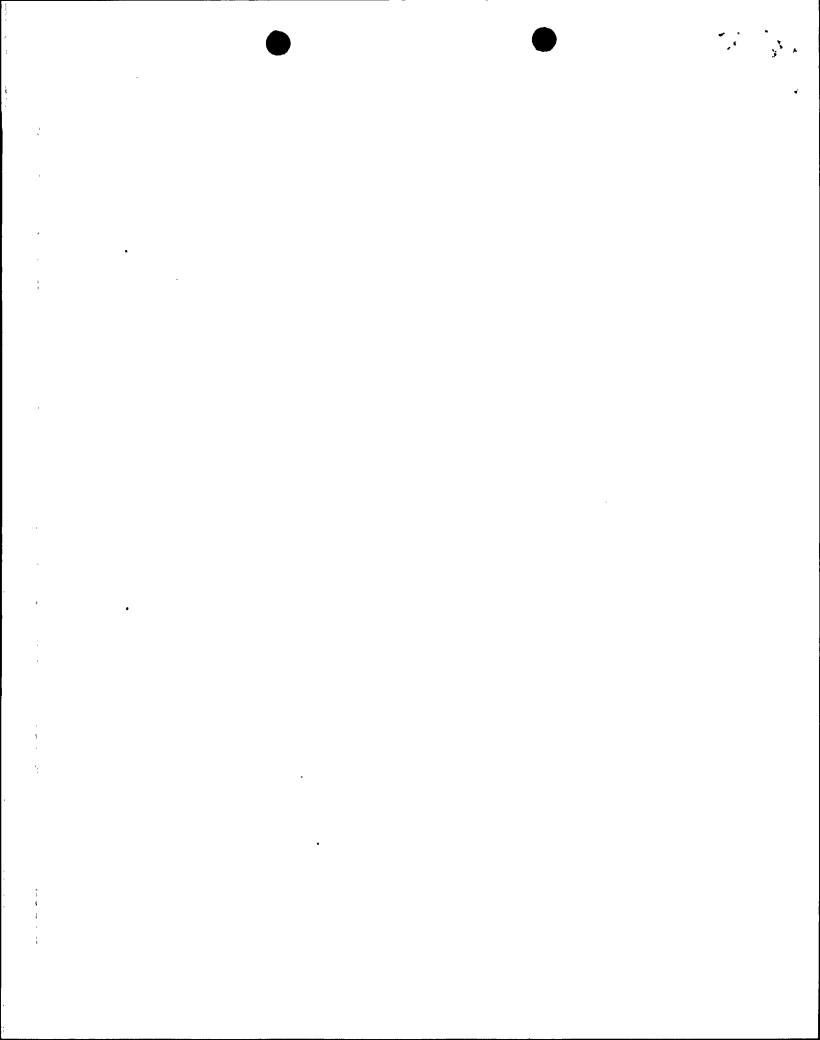
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DOCUMENT NAME: PV88682.RAI

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NAME	JClifford	EPEYLon	RWessman
DATE	12/14/96	12 V8 \3e	12/19/96

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cc w/encl: Mr. Steve Olea Arizona Corporation Commission 1200 W. Washington Street Phoenix, Arizona 85007

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Senior Resident Inspector USNRC P. O. Box 40 Buckeye, Arizona 85326

Regional Administrator, Region IV U. S. Nuclear Regulatory Commission Harris Tower & Pavillion 611 Ryan Plaza Drive, Suite 400 Arlington, Texas 76011-8064

Chairman, Board of Supervisors ATTN: Chairman 301 W. Jefferson, 10th Floor Phoenix, Arizona 85003

Mr. Aubrey V. Godwin, Director Arizona Radiation Regulatory Agency 4814 South 40 Street Phoenix, Arizona 85040

Ms. Angela K. Krainik, Manager Nuclear Licensing Arizona Public Service Company P.O. Box 52034 Phoenix, Arizona 85072-2034

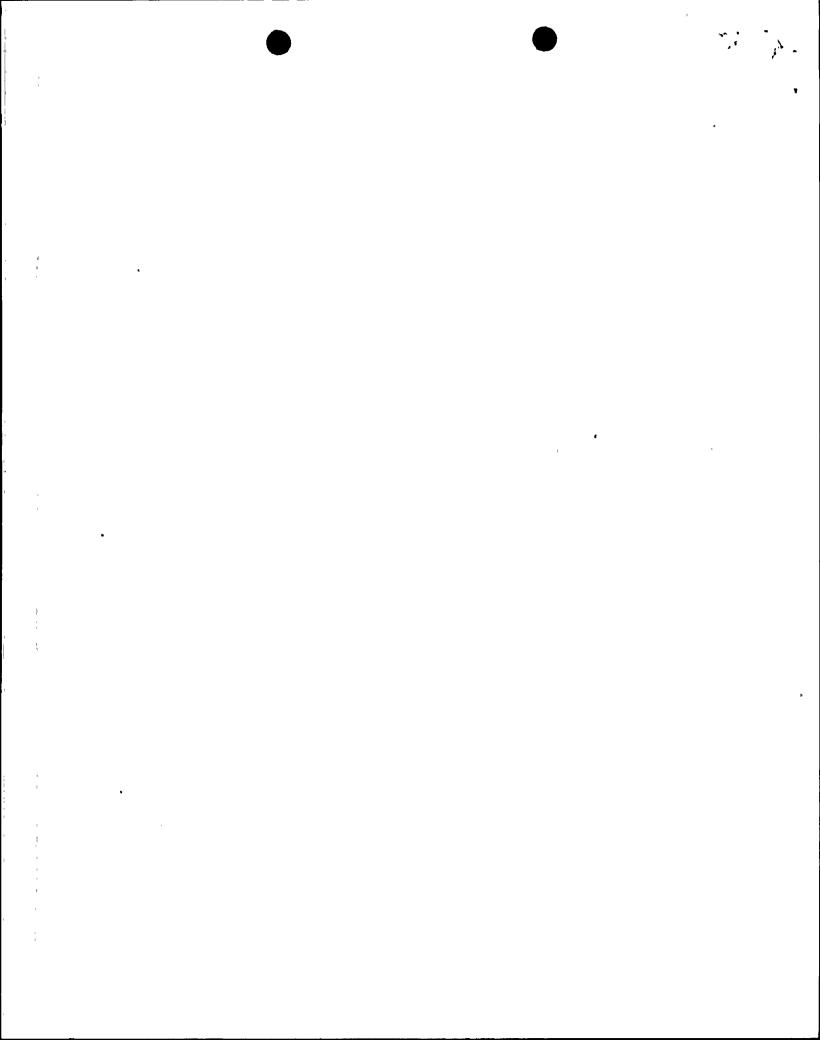
Mr. John C. Horne, Vice President Power Supply Palo Verde Services 2025 N. Third Street, Suite 220 Phoenix, Arizona 85004

Mr. Robert Burt Los Angeles Department of Water & Power Southern California Public Power Authority 111 North Hope Street, Room 1255-B

Mr. David Summers
Public Service Company of New Mexico
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Albuquerque, New Mexico 87102

Mr. Brian Katz Southern California Edison Company 14300 Mesa Road, Drop D41-SONGS San Clemente, California 92672

Mr. Robert Henry Salt River Project 6504 East Thomas Road Scottsdale, Arizona 85251



PRESSURIZER AUXILIARY SPRAY LINE THERMAL STRATIFICATION PALO VERDE NUCLEAR GENERATING STATION

The following additional information is requested to assist the staff in its review of the licensee's September 28, 1996, letter.

- 1. Provide an isometric diagram of the pressurizer auxiliary spray line and the main spray line, showing length, pipe sizes, and the location of all thermocouples used to measure the stratification.
- 2. Provide a diagram of the valve through which the leakage was detected. State the leakage quantity, and the time interval it has been leaking. Describe any plans to correct the leakage, including repair or replacement if applicable.
- 3. Provide the measured temperature time-histories for all thermocouples before and after the start of leakage to the present, or to the time the valve had been replaced.
- 4. Provide the basis for the statement "...interaction at the piping tee between the leakage flow and main spray flow is not expected to cause any cycling at the tee due to the relatively low main spray flow." Provide temperature measurements and/or an analytical basis to support this statement.
- 5. State that the pressurizer auxiliary spray line/main spray line systems in Unit 1 and 2 are identical to that of Unit 3. If not, describe the differences.