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RECIP.NAME RECIPIENT AFFILIATION
KNIGHTON,G.W. Licensing Branch 3

SUBJECT: Informs of changes to 830926 salt deposition & impact monitoring plan,including monitoring location,soil sampling analysis & vegetation sampling/analysis changes.Program objectives unaffected.

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ANPP-32275-EEVB/WFQ
March 29, 1985

Director of Nuclear Reactor Regulation
Mr. George W. Knighton, Chief
Licensing Branch No. 3
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Units 1, 2, and 3
Docket Nos. STN 50-528(License No. NPF-34)/529/530
Salt Drift Monitoring
File: 85-004-419.06

Dear Mr. Knighton:

In accordance with the requirements of section 4.2.2 of Appendix B of the Palo Verde Nuclear Generating Station (PVNGS) Unit 1 Operating License, changes have been made to the Salt Deposition and Impact Monitoring Plan submitted by letter dated September 26, 1983 from E. E. Van Brunt, Jr., Arizona Public Service Company, to G. W. Knighton, U.S. Nuclear Regulatory Commission. These changes do not affect the program objectives described in the introduction of the Monitoring Plan. The enclosure describes the changes made, the reasons for making the changes and the effect on the continuity of the study.

If you have any questions or require further information, please contact Mr. W. F. Quinn of my staff at (602) 943-7200 extension 4087.

Very truly yours,

E. E. Van Brunt

E. E. Van Brunt, Jr.
Executive Vice President
Project Director

EEVB/MLC/mb
Enclosure

cc: R. P. Zimmerman
E. A. Licitra
A. C. Gehr

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CHANGES MADE TO THE SALT DEPOSITION AND IMPACT MONITORING PLAN
FOR THE PALO VERDE NUCLEAR GENERATING STATION UNITS 1, 2, and 3, REVISION 3
SINCE JULY 1983

1. Monitoring Location Changes

a. During June 1983, the native vegetation communities at Monitoring Site No. 5 were destroyed by fire. Site No. 5 was then and is currently maintained as a sampling site for dustfall and soils only.

b. During May 1984, Site No. 44 was established as a native vegetation (saltbush) control site. Site No. 44 is located approximately 7 miles to the northwest of the PVNGS cooling towers.

The saltbush (Atriplex Polycarpa) plant community in the vicinity of existing native vegetation control Site No. 42 was tilled and the site converted to agricultural use sometime prior to May 1984. A survey of the land area which met the criteria of a control site was conducted and the result was the establishment of Site No. 44 as the new control site for the saltbush.

c. During June 1984, monitoring equipment at Site No. 29 was destroyed by agricultural activity. It was necessary to decommission this site and establish another representative agricultural site in the nearby vicinity. Site No. 45 was then established approximately 5000 feet to the north of Site No. 29. Site No. 45 began operation in July 1984.

None of the changes described in item 1a-c will affect the continuity of the study.

2. Soil Sampling Analysis Changes

a. In November 1983, textural analysis of soil samples was initiated and was completed in March 1984. Textural analysis are performed once for each of the monitoring sites in order to physically characterize the soils at each sampling location.

b. In November 1983, split vertical column sampling of soils commenced. 12 inch deep core samples are taken and divided into upper and lower segments. The depth to break between upper and lower segments is determined in the field for uncultivated soils based on the depth to a textural change. Cores in cultivated areas are divided into equal upper and lower segments.

The purpose of performing the split vertical soil column sampling is to define better any salt migration through the column.

c. Post-defoliation soil sampling was initiated in November 1983. This sampling is conducted at agricultural monitoring sites after the crops (usually cotton) grown at these locations have been defoliated. This sampling is desirable to assess the potential effect on soil salt concentration of the application of crop defoliants which may contain significant concentrations of soluble salts.

None of the changes described in items 2a-c will affect the continuity of the study.

3. Vegetation Sampling/Analysis Changes

a. Beginning with the 1984 agricultural sampling season, only cotton yield was determined by field sampling since that crop was the most significant crop grown within a 10-mile radius of PVNGS.

This change does not affect the continuity of the study.