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AUTH.NAME AUTHOR AFFILIATION
VAN BRUNT,E.E. Arizona Public Service Co.
RECIP.NAME RECIPIENT AFFILIATION
TEDESCO,R.L. Assistant Director for Licensing

SUBJECT: Advises that siren sys design has been chosen to alert public within plume exposure emergency planning zone in event of emergency.Sys will be installed & operable prior to scheduled Unit 1 fuel loading date of Nov 1982.

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ARIZONA PUBLIC SERVICE COMPANY

STA. _____ P.O. BOX 21666 - PHOENIX, ARIZONA 85036

September 3, 1981
ANPP-18847-JMA/WFQ

Mr. Robert L. Tedesco
Assistant Director for Licensing
Division of Licensing
United States Nuclear Regulatory Commission
Washington, D. C. 20555

Subject: Palo Verde Nuclear Generating Station (PVNGS) Units 1, 2 and 3
Docket Nos. STN-50-528/529/530
File: 81-056-026; G.1.10

Reference: Letter from Robert L. Tedesco, NRC, to E. E. Van Brunt, Jr., dated July 17, 1981, Subject: "Prompt Notification In The Event of An Emergency".

Dear Mr. Tedesco:

Arizona Public Service Company has been working in cooperation with the Arizona Division of Emergency Services and the Maricopa County Department of Civil Defense and Emergency Services to design a public warning system which would alert the public within the plume exposure EPZ in the event of an emergency. In accordance with the Draft State of Arizona/Maricopa County Fixed Nuclear Facility Off-Site Emergency Response Plan, prompt instructions will be provided to the public within the plume exposure EPZ through the Emergency Broadcast System (EBS), non EBS affiliated radio and television stations broadcasting emergency information as a public service, and the National Oceanic and Atmospheric Administration (NOAA) weather radio system.

A public warning system design study has been completed which evaluated three alternative methods of alerting the public within the plume exposure EPZ. Arizona Public Service Company, with concurrence of the Arizona Division of Emergency Services and the Maricopa County Department of Civil Defense and Emergency Services, has chosen a siren system design to alert the entire population within the plume exposure EPZ. The system will be purchased, installed, and tested by Arizona Public Service Company who will then donate the system to the Arizona Division of Emergency Services.

The public warning siren system will consist of a network of 36 sirens strategically located to provide a minimum of a 60 dBC sound signal coverage to populated areas within the plume exposure EPZ. The system design was performed by Acoustic Technology, Inc. using a siren acoustic

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computer model which calculates the sound attenuation with distance due to hemispherical wave divergence; atmospheric absorption; absorption due to vegetation, trees, and ground effects; upwind shadows; and barrier attenuation. An ambient sound survey was performed to verify the validity of using a minimum sound signal coverage of 60 dBC.

The public warning siren system will be installed, and operable prior to our scheduled Unit 1 fuel loading date of November 1982. We will further attempt to have the system available for our joint emergency exercise which is tentatively scheduled for September 1982. We have not identified any problems to date which may prevent us from meeting this schedule.

If you should have any additional questions concerning the public warning siren system, please contact me.

Very truly yours,

E. E. Van Brunt

E. E. Van Brunt, Jr.
APS Vice President,
Nuclear Projects
ANPP Project Director

EEVBJr/WFQ/bj

cc: J. Kerrigan
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