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 AUTH.NAME AUTHOR AFFILIATION
 VAN BRUNT,E.E. Arizona Public Service Co.
 RECIP.NAME RECIPIENT AFFILIATION
 NRC - No Detailed Affiliation Given

SUBJECT: Forwards general description of facilities, revising 831205
 request for certification that facilities designed to
 further abate or control atmospheric pollutants or
 contaminants or water pollution.

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 TITLE: Licensing Submittal: PSAR/FSAR Amdts & Related Correspondence

NOTES: Standardized plant. 05000528
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2. (b) : forwards general description of facilities designed to request for certification that facilities designed to further state or control atmospheric pollutants or effluents or water pollution.

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DATE: 11/11/2011 11:11:11 AM

ARIZONA



PUBLIC SERVICE COMPANY

P. O. BOX 21666 • PHOENIX, ARIZONA 85036

ANPP-28493-BEVB Jr
December 23, 1983

Nuclear Regulatory Commission
Washington, D.C. 20555

Re: Certification of Pollution Control Facilities at the Palo Verde
Nuclear Generating Station
File: 83-056-026

Gentlemen:

In a letter to you dated December 5, 1983, I advised you of the plans of Arizona Public Service Company, Southern California Edison Company, El Paso Electric Company, and Public Service Company of New Mexico (the "Participants"), each owning an undivided interest in the Palo Verde Nuclear Generating Station (the "Plant"), to obtain tax-exempt financing of their respective interests in certain air and water pollution control facilities and sewage and solid waste disposal facilities (the "Facilities") at the Plant. In that letter, Arizona Public Service Company, on behalf of each of the Participants, requested that your office issue a certification that the Facilities, as designed, are in furtherance of the purpose of abating or controlling atmospheric pollutants or contaminants, or water pollution, as the case may be. A copy of the proposed certification and a description of the Facilities were enclosed.

It has now been determined that the Facilities description sent to you on December 5, 1983 should be revised. Accordingly, Arizona Public Service Company, on behalf of the Participants, requests that the attached description be substituted for the one which you earlier received.

As the closings of the transactions referred to in my earlier letter have been scheduled for early next week, we appreciate your timely attention to our request, as amended.

Very truly yours,

E. E. Van Brunt *QAR*

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

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Encls.

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STATE OF ARIZONA)
) ss.
COUNTY OF MARICOPA)

I, A. Carter Rogers, represent that I am Nuclear Engineering Manager of Arizona Public Service Company, that the foregoing document has been signed by me for Edwin E. Van Brunt, Jr., Vice President Nuclear Projects, on behalf of Arizona Public Service Company with full authority so to do, that I have read such document and know its contents, and that to the best of my knowledge and behalf, the statements made therein are true.

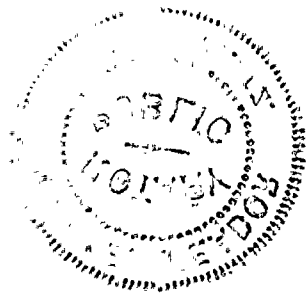
A. Carter Rogers
A. Carter Rogers

Sworn to before me this 23 day of December, 1983

Nora E. Meador
Notary Public

My Commission expires:

My Commission Expires April 6, 1987



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EXHIBIT A

General Description of the Facilities

The facilities consist of the following systems at the Plant and, in each case, include related machinery, equipment and related facilities:

Sanitary Drainage and Treatment System. The sanitary drainage and treatment system collects, transports, treats, clarifies and returns wastewater to the water reclamation facility for reuse. The system includes a wet well, sewage lift station, surge tank, three package sewage treatment plants, chlorine contact chamber, sumps, pumps, piping, valves, controls and instrumentation.

Oily Waste and Nonradioactive Waste Systems. The oily and nonradioactive waste system for each unit at the Plant collects for processing and disposal, nonradioactive waste from normally nonradioactive areas where oil may be present. Each system includes drains, sumps, oil/water separators and a retention basin.

Chemical Waste Systems. The chemical waste system for each unit at the Plant consists of five subsystems that collect chemical wastes from various areas of the Plant, neutralize the chemicals in such wastes and/or transfer such wastes to the chemical drain tank, retention basin, evaporation pond or liquid radwaste holdup tank. Each system includes drains, sumps, a chemical drain tank and related piping.

Retention Basin. The retention basin collects and disposes by evaporation of yard drainage to prevent discharge of sedimentation to the Gila River.

Evaporation Pond. The evaporation pond collects start-up flush water and cooling tower blowdown wastewater for disposal by evaporation. The evaporation pond allows for disposal of settleable solids and pollutants on a rubberized liner. The system includes related environmental monitoring wells and equipment.

Water Reclamation Facility (Pollution Control System). The water reclamation facility air and water pollution facilities collect environmental pollutants to prevent their discharge to the environment and/or treat such pollutants prior to such discharge. Furnace stack gas pollution control components include a cyclone separator, lime dust return screw and rotary feeder, precooler and venturi scrubber, impingement tray separator and an induced draft fan. Lime and soda ash dust collection equipment includes dust collectors and filter separators and associated piping and instrumentation. Sludge handling and dewatering equip-

ment includes sludge pumps, thickeners, tunnel sump pumps, centrifuges, conveyors and associated piping, instrumentation, valves and controls.

Gaseous Radwaste Systems. The gaseous radwaste system for each unit at the Plant collects and processes potentially radioactive gases generated within the unit so that offsite exposure is kept as low as reasonably achievable (ALARA). High activity gas containing primarily hydrogen and nitrogen is collected and stored in an oxygen-free environment to guard against a rapid hydrogen/oxygen reaction and to permit decay of short-lived isotopes prior to release to the environment. Each system includes a surge tank, prefilters, waste gas compressors and decay tanks, a discharge filter and flow control valve and related radiation monitoring equipment.

Solid Radwaste Systems. The solid radwaste system for each unit at the Plant collects and chemically processes radioactive waste consisting of trash, spent ion exchange resins, waste evaporator concentrates, chemical drain tank effluents, crud tank effluents, used filter cartridges, contaminated steam generator blowdown demineralizer resins and contaminated condensate polishing demineralizer resins. Wastes are solidified in the waste solidification system and stored in a shielded storage location prior to shipment off site. Each system includes a waste feed tank, chemical handling and storage equipment, cement handling and storage equipment and mixers and related machinery and equipment. Each system provides for capping, decontamination, swiping and placement of solidified waste containers in a shielded storage location in the unit. Each system includes a monorail to transport spent filter cartridges to the solidification system. Each system also includes related radiation monitoring equipment.

Future Interim On Site Low-Level Radioactive Waste Storage Facility. The interim on site low-level radioactive waste storage facility provides the capability to handle and store solidified wastes and dry active wastes for up to five years prior to shipment off site without further processing.

Liquid Radwaste Systems. The liquid radwaste system for each unit at the Plant collects and stores for processing and processes radioactive or potentially radioactive waste fluids from various areas of such unit. Such waste fluids are processed by filtration, absorption, ion exchange and evaporation. Water is recovered for reuse in the reactor plant systems and to minimize the quantity of liquid wastes which must be solidified for off site disposal. Each system also includes related radiation monitoring equipment.

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Radwaste Building. The radwaste building for each unit at the Plant houses the systems used for the processing of liquid, solid and gaseous radioactive wastes generated in such unit and is functionally related and subordinate to such systems.

Filtration Equipment. The filtration equipment for each unit at the Plant collects and removes contaminants from gases prior to discharge to the environment in order to maintain off site exposure ALARA. Each system includes high efficiency particulate air filter banks and charcoal absorbers and related mechanical equipment.

Radioactive Laundry. The radioactive laundry uses four "Radkleen" dry cleaning machines to decontaminate cloth and rubber protective clothing used at the Plant. The system consists of a cleaning chamber, solvent tank, still drying fan, evaporator refrigeration compressor and related filters.

