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STN-50-529 Palo Verde Nuclear Station, Unit 2, Arizona Publi 05000529  
STN-50-530 Palo Verde Nuclear Station, Unit 3, Arizona Publi 05000530

AUTH.NAME AUTHOR AFFILIATION  
CONWAY,W.F. Arizona Public Service Co. (formerly Arizona Nuclear Power R  
RECIP.NAME RECIPIENT AFFILIATION  
Document Control Branch (Document Control Desk) I

SUBJECT: Forwards endorsements 52 Nuclear Liability Facility Form policy MF-0116,70 Nuclear Liability Facility Form policy NF-0266,10 Master Worker Form policy NW-0160 & 10 Master Worker Form policy MW-0086. D  
S

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TITLE: Insurance: Indemnity/Endorsement Agreements A

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Arizona Public Service Company

P.O. BOX 53999 • PHOENIX, ARIZONA 85072-3999

WILLIAM F. CONWAY  
EXECUTIVE VICE PRESIDENT  
NUCLEAR

161-04583-WFC/JRP

January 21, 1992

Docket Nos. STN 50-528/529/530

U. S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Mail Station P1-37  
Washington, DC 20555

Dear Sirs:

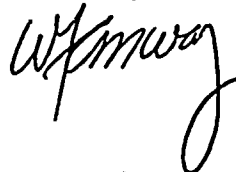
Subject: Palo Verde Nuclear Generating Station (PVNGS)  
Units 1, 2, and 3  
Nuclear Energy Liability Insurance  
File: 92-003-240; 92-056-026

Pursuant to 10 CFR 140.15(e) and Section 2.B(6)(iii) of the Facility Operating Licenses, enclosed are two certified copies of each of the following endorsements to the PVNGS Nuclear Energy Liability Insurance Policies:

<u>Policy No.</u>	<u>Coverage</u>	<u>Endorsement No.</u>
MF-0116	Nuclear Liability Facility Form	52
NF-0266	Nuclear Liability Facility Form	70
NW-0160	Master Worker Form	10
MW-0086	Master Worker Form	10
N-0088	Secondary Financial Protection Unit 1	19
M-0088	Secondary Financial Protection Unit 1	19
N-0107	Secondary Financial Protection Unit 2	19
M-0107	Secondary Financial Protection Unit 2	19
N-0114	Secondary Financial Protection Unit 3	15
M-0114	Secondary Financial Protection Unit 3	15

The enclosed endorsements are forwarded for your information, if you should have any questions, please call Michael E. Powell of my staff at (602) 340-4981.

Sincerely,



WFC/JRP/pmm  
Enclosures

cc: J. B. Martin  
D. H. Coe  
A. C. Gehr  
A. H. Gutterman

9201290173 920121  
PDR ADDCK 05000528  
J PDR

mod 1/2



NUCLEAR ENERGY LIABILITY INSURANCE  
MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS  
ADVANCE PREMIUM AND STANDARD PREMIUM ENDORSEMENT

CALENDAR YEAR 1992

1. **ADVANCE PREMIUM:** It is agreed that the Advance Premium due the companies for the period designated above is: \$153,764.00
2. **STANDARD PREMIUM AND RESERVE PREMIUM:** In the absence of a change in the Advance Premium indicated above, it is agreed that, subject to the provisions of the Industry Credit Rating Plan, the Standard Premium is said Advance Premium and the Reserve Premium is: \$116,186.00

This is to certify that this is a true copy of the original Endorsement having the endorsement number and being made part of the Nuclear Energy Liability Policy (Facility Form) as designated hereon. Insurance is afforded hereunder.

  
John L. Quattrocchi, Vice President-Underwriting  
American Nuclear Insurers

Effective Date of  
this Endorsement: January 1, 1992  
(12:01 A.M. Standard Time)

To form a part of Policy No. MF-0116

Issued to: Arizona Public Service Company, et al

Date of Issue: December 8, 1991

For the subscribing companies

By

Endorsement No: 52

Countersigned by

THE UNIVERSITY OF CHICAGO  
LIBRARY  
1207 EAST 58TH STREET  
CHICAGO, ILL. 60637

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W. H. R. 2.1

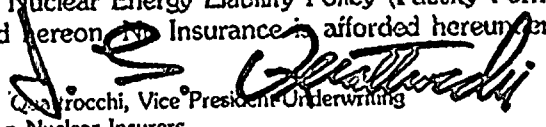
NUCLEAR ENERGY LIABILITY INSURANCE  
NUCLEAR ENERGY LIABILITY INSURANCE ASSOCIATION

ADVANCE PREMIUM AND STANDARD PREMIUM ENDORSEMENT

CALENDAR YEAR 1992

1. **ADVANCE PREMIUM:** It is agreed that the Advance Premium due the companies for the period designated above is: \$529,633.00
2. **STANDARD PREMIUM AND RESERVE PREMIUM:** In the absence of a change in the Advance Premium indicated above, it is agreed that, subject to the provisions of the Industry Credit Rating Plan, the Standard Premium is said Advance Premium and the Reserve Premium is: \$400,196.00

This is to certify that this is a true copy of the original Endorsement having the endorsement number and being made part of the Nuclear Energy Liability Policy (Facility Form) as designated hereon. Insurance is afforded hereunder.

  
John L. Quattrocchi, Vice President Underwriting  
American Nuclear Insurers

Effective Date of  
this Endorsement: January 1, 1992  
(12:01 A.M. Standard Time)

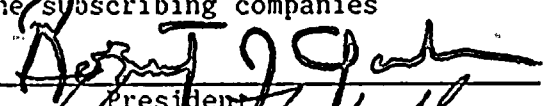
To form a part of Policy No. NF-0266

Issued to: Arizona Public Service Company, et al

Date of Issue: December 8, 1991

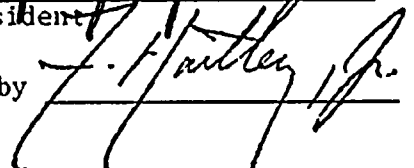
For the subscribing companies

By

  
President

Endorsement No: 70

Countersigned by



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P.P. Fren



NUCLEAR ENERGY LIABILITY INSURANCE  
NUCLEAR ENERGY LIABILITY INSURANCE ASSOCIATION  
ADVANCE PREMIUM AND STANDARD PREMIUM ENDORSEMENT

CALENDAR YEAR 1992

1. **ADVANCE PREMIUM:** It is agreed that the Advance Premium due the companies for the period designated above is: \$53,708.00
2. **STANDARD PREMIUM AND RESERVE PREMIUM:** In the absence of a change in the Advance Premium indicated above, it is agreed that, subject to the provisions of the Retrospective Rating Plan, the Standard Premium is said Advance Premium and the estimated Reserve Premium element of the Standard Premium is: \$42,965.00

This is to certify that this is a true copy of the original endorsement having the endorsement number and being the Certificate of Insurance bearing the number designated on the Certificate for insurance coverage under the Nuclear Energy Liability Policy (Facility Workers Form). No Insurance is afforded hereunder.

John C. Quinn, Jr., Vice President, Underwriting  
American Nuclear Insurers

Effective Date of  
this Endorsement: January 1, 1992  
(12:01 A.M. Standard Time)

To form a part of Certificate No. NW-0160

Issued to: Arizona Public Service Company, et al

Date of Issue: November 22, 1991

For the subscribing companies

By

President

Endorsement No: 10

Countersigned by

4-1-1964

NUCLEAR ENERGY LIABILITY INSURANCE  
MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS  
ADVANCE PREMIUM AND STANDARD PREMIUM ENDORSEMENT

CALENDAR YEAR 1992

1. **ADVANCE PREMIUM:** It is agreed that the Advance Premium due the companies for the period designated above is: \$15,592.00
2. **STANDARD PREMIUM AND RESERVE PREMIUM:** In the absence of a change in the Advance Premium indicated above, it is agreed that, subject to the provisions of the Retrospective Rating Plan, the Standard Premium is said Advance Premium and the estimated Reserve Premium element of the Standard Premium is: \$12,474.00

This is to certify that this is a true copy of the original Endorsement having the endorsement number and being made part of the Certificate of Insurance bearing the number designated hereon for insurance coverage under the Nuclear Energy Liability Policy (Facility Workers Form) No Insurance is afforded thereunder.

  
John L. Quattrocchi, Vice President-Underwriting  
American Nuclear Insurers

Effective Date of  
this Endorsement: January 1, 1992  
(12:01 A.M. Standard Time)

To form a part of Certificate No. MW-0086

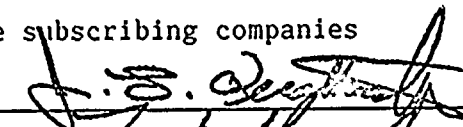

Issued to: Arizona Public Service Company, et al

Date of Issue: November 22, 1991

For the subscribing companies

Endorsement No: 10

By

  
Endorsed by 

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Handwritten scribbles or marks.

NUCLEAR ENERGY LIABILITY INSURANCE  
NUCLEAR ENERGY LIABILITY INSURANCE ASSOCIATION

ANNUAL PREMIUM ENDORSEMENT

CALENDAR YEAR 1992

1. ANNUAL PREMIUM: It is agreed that the Advance Premium due the companies for the period designated above is: \$5,813.00

THIS IS TO CERTIFY THAT THIS IS A TRUE COPY OF THE ORIGINAL CERTIFICATE, BEARING THE NUMBER DESIGNATED HEREON, FOR INSURANCE COVERAGE UNDER THE MASTER POLICY-NUCLEAR ENERGY LIABILITY INSURANCE (SECONDARY FINANCIAL PROTECTION). NO INSURANCE IS AFFORDED BY THIS COPY.

  
JOHN QUATTRUCCHI  
VICE PRESIDENT-UNDERWRITING  
AMERICAN NUCLEAR INSURERS

Effective Date of  
this Endorsement: January 1, 1992  
(12:01 A.M. Standard Time)

To form a part of Certificate No. N -0088

Issued to: Arizona Public Service Company, et al

Date of Issue: November 11, 1991

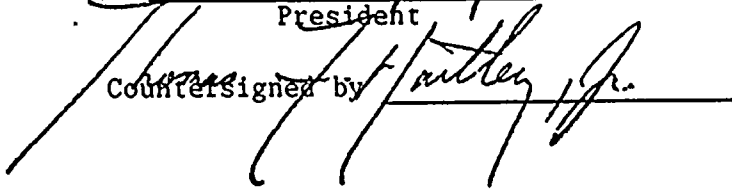
For the subscribing companies

By

  
President

Endorsement No: 19

Countersigned by





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100-100-100

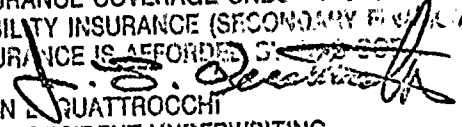
NUCLEAR ENERGY LIABILITY INSURANCE  
MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS

ANNUAL PREMIUM ENDORSEMENT

CALENDAR YEAR 1992

1. ANNUAL PREMIUM: It is agreed that the Advance Premium due the companies for the period designated above is: \$1,687.00

THIS IS TO CERTIFY THAT THIS IS A TRUE COPY OF THE ORIGINAL CERTIFICATE, BEARING THE NUMBER DESIGNATED HEREON, FOR INSURANCE COVERAGE UNDER THE MUTUAL POLICY NUCLEAR ENERGY LIABILITY INSURANCE (SECONDARY FINANCIAL PROTECTION). NO INSURANCE IS AFFORDED BY THIS ENDORSEMENT.

  
JOHN L. QUATTROCCHI  
VICE PRESIDENT-UNDERWRITING  
AMERICAN NUCLEAR INSURERS

Effective Date of  
this Endorsement: January 1, 1992  
(12:01 A.M. Standard Time)

To form a part of Certificate No. M -0088

Issued to: Arizona Public Service Company, et al

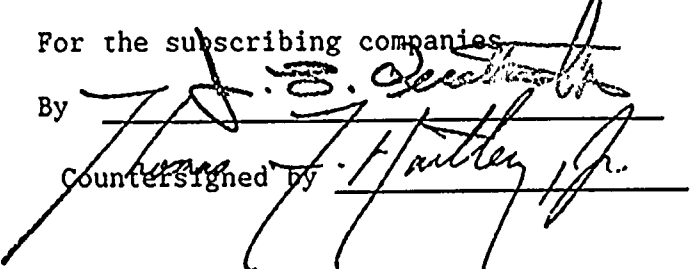
Date of Issue: November 11, 1991

For the subscribing companies

By

Endorsement No: 19

Countersigned by



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NUCLEAR ENERGY LIABILITY INSURANCE  
NUCLEAR ENERGY LIABILITY INSURANCE ASSOCIATION

ANNUAL PREMIUM ENDORSEMENT

CALENDAR YEAR 1992

1. ANNUAL PREMIUM: It is agreed that the Advance Premium due the companies for the period designated above is: \$5,813.00

THIS IS TO CERTIFY THAT THIS IS A TRUE COPY OF THE ORIGINAL  
CERTIFICATE, BEARING THE NUMBER DESIGNATED HEREON, FOR  
INSURANCE COVERAGE UNDER THE MASTER POLICY-NUCLEAR ENERGY  
LIABILITY INSURANCE (SECONDARY FINANCIAL PROTECTION). NO  
INSURANCE IS FORWARDED BY THIS COPY

JOHN L. QUATTROCCHI  
VICE PRESIDENT-UNDERWRITING  
AMERICAN NUCLEAR INSURERS

Effective Date of  
this Endorsement: January 1, 1992  
(12:01 A.M. Standard Time)

To form a part of Certificate No. N -0107

Issued to: Arizona Public Service Company, et al

Date of Issue: November 11, 1991

For the subscribing companies

By

President

Endorsement No: 19

Countersigned by

1000

1000

NUCLEAR ENERGY LIABILITY INSURANCE  
MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS

ANNUAL PREMIUM ENDORSEMENT

CALENDAR YEAR 1992

1. ANNUAL PREMIUM: It is agreed that the Advance Premium due the companies for the period designated above is: \$1,687.00

THIS IS TO CERTIFY THAT THIS IS A TRUE COPY OF THE ORIGINAL CERTIFICATE, BEARING THE NUMBER DESIGNATED HEREON, FOR INSURANCE COVERAGE UNDER THE MASTER POLICY-NUCLEAR ENERGY LIABILITY INSURANCE (Nuclear Energy Financial Protection). NO INSURANCE IS AFFORDED BY THIS COPY.

  
JOHN S. DECATUR  
VICE PRESIDENT-UNDERWRITING  
AMERICAN NUCLEAR INSURERS

Effective Date of  
this Endorsement: January 1, 1992  
(12:01 A.M. Standard Time)

To form a part of Certificate No. M -0107

Issued to: Arizona Public Service Company, et al

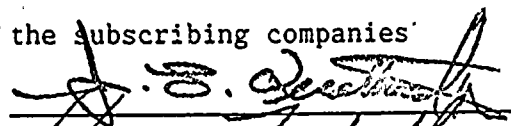
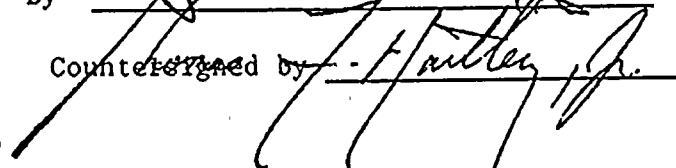
Date of Issue: November 11, 1991

For the subscribing companies

By

Counterigned by

Endorsement No: 19

A. C. C. C.

W. C. C. C.

NUCLEAR ENERGY LIABILITY INSURANCE  
NUCLEAR ENERGY LIABILITY INSURANCE ASSOCIATION

ANNUAL PREMIUM ENDORSEMENT

CALENDAR YEAR 1992

1. ANNUAL PREMIUM: It is agreed that the Advance Premium due the companies for the period designated above is: \$5,813.00

THIS IS TO CERTIFY THAT THIS IS A TRUE COPY OF THE ORIGINAL CERTIFICATE, BEARING THE NUMBER DESIGNATED HEREON, FOR INSURANCE COVERAGE UNDER THE MASTER POLICY-NUCLEAR ENERGY LIABILITY INSURANCE (SECONDARY FINANCIAL PROTECTION). NO INSURANCE IS AFFORDED BY THIS COPY.

  
JOHN L. QUATROCCHI  
VICE PRESIDENT-UNDERWRITING  
AMERICAN NUCLEAR INSURERS

Effective Date of  
this Endorsement: January 1, 1992  
(12:01 A.M. Standard Time)

To form a part of Certificate No. N -0114

Issued to: Arizona Public Service Company, et al

Date of Issue: November 11, 1991

For the subscribing companies

By

  
President

Endorsement No: 15

Countersigned by 

3. *Chlorophyll content*—The chlorophyll content of the leaves was determined by the method of Arar and Johnson (1977). The leaves were ground in 80% methanol and the chlorophyll content was determined by measuring the absorbance of the extract at 663 nm and 665 nm. The chlorophyll content was expressed as mg/g of dry weight.

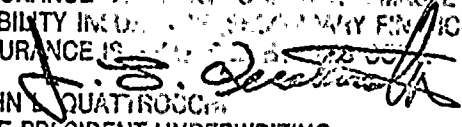
NUCLEAR ENERGY LIABILITY INSURANCE  
MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS

ANNUAL PREMIUM ENDORSEMENT

CALENDAR YEAR 1992

1. ANNUAL PREMIUM: It is agreed that the Advance Premium due the companies for the period designated above is: \$1,687.00

THIS IS TO CERTIFY THAT THIS IS A TRUE COPY OF THE ORIGINAL CERTIFICATE OF INSURANCE DESIGNATED HEREON, FOR INSURANCE COVERAGE UNDER THE MASTER POLICY-NUCLEAR ENERGY LIABILITY INSURANCE (SECONDARY FINANCIAL PROTECTION). NO INSURANCE IS

  
JOHN J. QUATTROCCHI  
VICE PRESIDENT-UNDERWRITING  
AMERICAN NUCLEAR INSURERS

Effective Date of  
this Endorsement: January 1, 1992  
(12:01 A.M. Standard Time)

To form a part of Certificate No. M -0114

Issued to: Arizona Public Service Company, et al

Date of Issue: November 11, 1991

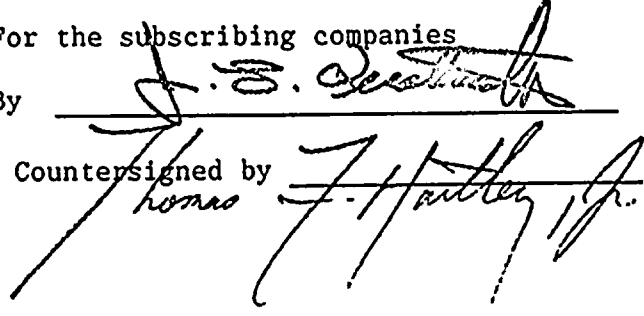
For the subscribing companies

By

Endorsement No: 15

Countersigned by

Thomas





11-11-61

11-11-61

11-11-61