

# Marsh & McLennan

M & M Nuclear Consultants  
2121 San Jacinto Street  
1300 San Jacinto Tower  
Dallas, Texas 75201  
Telephone 214 979-9900

January 11, 1989

Mr. Ira Dinitz  
Senior Insurance Indemnity Analyst  
Office of Nuclear Reactor Regulation  
Mail Stop 12E4  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

RE: Tennessee Valley Authority  
Nuclear Liability Insurance

Dear Mr. Dinitz:

Enclosed are two certified copies of the following endorsements.

<u>Policy/Certificate</u>	<u>End. #</u>
NF-198/MF-66	103/89
NF-198/MF-66	104/90
N-38/M-38	10/10
N-39/M-39	10/10
N-40/M-40	10/10
NW-105/MW-105	5/5
NF-247/MF-102	68/60
NF-247/MF-102	69/61
N-66/M-66	10/10
N-75/M-75	9/9
NW-145/MW/72	5/5
NF-256	44
NF-256	45
NW-152/MW-184	5/5
NF-258	34
NF-258	35
NW-154/MW-185	5/5

B901200278 B90111  
PDR ADDCK 05000259  
J PDC

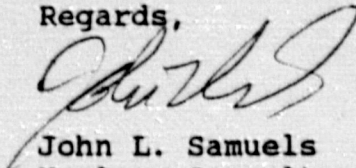
*Mool*

M & M Nuclear Consultants

Mr. Ira Dinitz  
January 11, 1989  
Page 2

Please do not hesitate to call with any questions.

Regards,



John L. Samuels  
Nuclear Consultant

JLS/ss

Enclosures

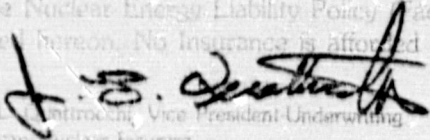
cc: D. Marks - TVA  
J. Collins - M&M Atlanta

**Nuclear Energy Liability Insurance**  
**NUCLEAR ENERGY LIABILITY INSURANCE ASSOCIATION**

**AMENDMENT OF CONDITION 4**

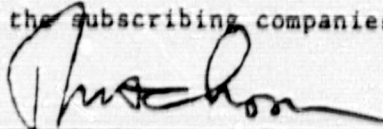
It is agreed that with respect to bodily injury or property damage caused after the effective date of this endorsement by the nuclear energy hazard, the figure "\$124,000,000" stated in Condition 4 of this policy is amended to read "\$155,000,000."

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. No insurance is afforded hereunder.

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

Effective Date of this Endorsement August 31, 1988 To form a part of Policy No NF-198  
12:01 A.M. Standard Time

Issued to Tennessee Valley Authority

Date of Issue December 15, 1988 For the subscribing companies  
By   
General Manager

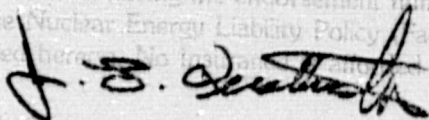
Endorsement No 104 Countersigned by \_\_\_\_\_

**Nuclear Energy Liability Insurance  
MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS**

**AMENDMENT OF CONDITION 4**

It is agreed that with respect to bodily injury or property damage caused after the effective date of this endorsement by the nuclear energy hazard, the figure "\$36,000,000" stated in Condition 4 of this policy is amended to read "\$45,000,000."

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. No further action is required hereunder.



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

Effective Date of this Endorsement August 31, 1988 To form a part of Policy No MF-66  
12:01 A.M. Standard Time  
Issued to Tennessee Valley Authority  
Date of Issue December 15, 1988 For the Subscribing Companies  
**MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS**  
By J. L. Quatrochi  
Endorsement No 90 Countersigned by \_\_\_\_\_  
Authorized Representative

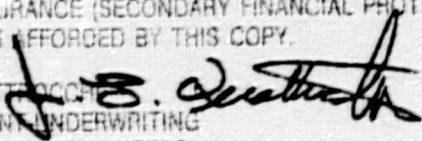
**Nuclear Energy Liability Insurance**  
**NUCLEAR ENERGY LIABILITY INSURANCE ASSOCIATION**

ANNUAL PREMIUM ENDORSEMENT

Calendar Year 1989

ANNUAL PREMIUM: It is agreed that the Annual 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, 1989 To form a part of Certificate No. N-38  
12:01 A.M. Standard Time

Issued to Tennessee Valley Authority

Date of Issue December 15, 1988 For the Subscribing Companies  
By   
**PRESIDENT**

Endorsement No. 10 Countersigned by \_\_\_\_\_

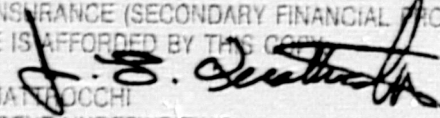
**Nuclear Energy Liability Insurance**  
**MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS**

ANNUAL PREMIUM ENDORSEMENT

Calendar Year 1989

ANNUAL PREMIUM: It is agreed that the Annual Premium due the companies for the period designated above is: \$ 1,689.00 .

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.

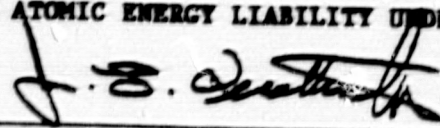
  
JOHN L. QUATROCCHI  
VICE PRESIDENT-UNDERWRITING  
AMERICAN NUCLEAR INSURERS

Effective Date of this Endorsement January 1, 1989 To form a part of Certificate No. M-38  
12:01 A.M. Standard Time

Issued to Tennessee Valley Authority

Date of Issue December 15, 1988

For the Subscribing Companies  
**MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS**

By 

Endorsement No. 10

Countersigned by \_\_\_\_\_

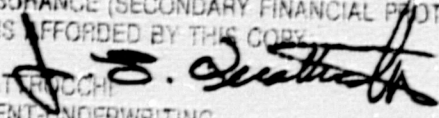
**Nuclear Energy Liability Insurance**  
**NUCLEAR ENERGY LIABILITY INSURANCE ASSOCIATION**

ANNUAL PREMIUM ENDORSEMENT

Calendar Year 1989

**ANNUAL PREMIUM:** It is agreed that the Annual 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. QUATTRICCHI  
VICE PRESIDENT-UNDERWRITING  
AMERICAN NUCLEAR INSURERS

Effective Date of this Endorsement January 1, 1989 To form a part of Certificate No. N-39  
12:01 A.M. Standard Time

Issued to Tennessee Valley Authority

Date of Issue December 15, 1988

For the Subscribing Companies

By   
PRESIDENT

Endorsement No. 10

Countersigned by \_\_\_\_\_

**Nuclear Energy Liability Insurance**  
**MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS**

ANNUAL PREMIUM ENDORSEMENT

Calendar Year 1989

**ANNUAL PREMIUM:** It is agreed that the Annual Premium due the companies for the period designated above is: \$ 1,688.00 .

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.

*J. S. Quattrocchi*  
JOHN L. QUATTROCCHI  
VICE PRESIDENT-UNDERWRITING  
AMERICAN NUCLEAR INSURERS

Effective Date of this Endorsement January 1, 1989 To form a part of Certificate No. M-39  
12:01 A.M. Standard Time

Issued to Tennessee Valley Authority

Date of Issue December 15, 1988

For the Subscribing Companies

**MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS**

By *J. S. Quattrocchi*

Endorsement No. 10

Countersigned by \_\_\_\_\_



**Nuclear Energy Liability Insurance**  
**NUCLEAR ENERGY LIABILITY INSURANCE ASSOCIATION**

ANNUAL PREMIUM ENDORSEMENT

Calendar Year 1989

**ANNUAL PREMIUM:** It is agreed that the Annual 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.

*J. S. Quatrich*  
JOHN L. QUATRICH  
VICE PRESIDENT-UNDERWRITING  
AMERICAN NUCLEAR INSURERS

Effective Date of this Endorsement January 1, 1989 To form a part of Certificate No. N-40  
12:01 A.M. Standard Time

Issued to Tennessee Valley Authority

Date of Issue December 15, 1988 For the Subscribing Companies  
By *[Signature]*  
PRESIDENT

Endorsement No. 10 Countersigned by \_\_\_\_\_

**Nuclear Energy Liability Insurance**  
**MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS**

ANNUAL PREMIUM ENDORSEMENT

Calendar Year 1989

**ANNUAL PREMIUM:** It is agreed that the Annual Premium due the companies for the period designated above is: \$ 1,688.00 .

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.

*J. S. Quattrocchi*

JOHN L. QUATTROCCHI  
VICE PRESIDENT-UNDERWRITING  
AMERICAN NUCLEAR INSURERS

Effective Date of this Endorsement January 1, 1989 To form a part of Certificate No. M-40  
12:01 A.M. Standard Time

Issued to Tennessee Valley Authority

Date of Issue December 15, 1988

For the Subscribing Companies

**MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS**

By *J. S. Quattrocchi*

Endorsement No. 10

Countersigned by \_\_\_\_\_

Nuclear Energy Liability Insurance  
NUCLEAR ENERGY LIABILITY INSURANCE ASSOCIATION

ADVANCE PREMIUM AND STANDARD PREMIUM ENDORSEMENT

CALENDAR YEAR 1989

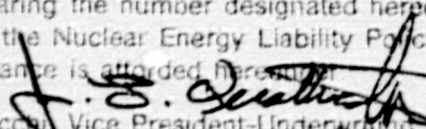
1. **ADVANCE PREMIUM:** It is agreed that the Advance Premium due the companies for the period designated above is:

\$ 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 Industry Retrospective Rating Plan, the Standard Premium is said Advance Premium and the estimated Reserve Premium element of the Standard Premium is:

\$ 42,966.00

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 hereunder.

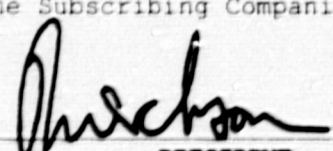
  
John L. Quattrocchi, Vice President-Underwriting  
American Nuclear Insurers

Effective Date of this Endorsement January 1, 1989 To form a part of Certificate No. NW-105  
12:01 A.M. Standard Time

Issued to Tennessee Valley Authority

Date of Issue December 15, 1988

For the Subscribing Companies

By   
**PRESIDENT**

Endorsement No. 5

Countersigned by \_\_\_\_\_

Nuclear Energy Liability Insurance  
MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS

ADVANCE PREMIUM AND STANDARD PREMIUM ENDORSEMENT

CALENDAR YEAR 1989

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 Industry 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 hereunder.

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

Effective Date of this Endorsement January 1, 1989 To form a part of Certificate No. MW-39  
12:01 A.M. Standard Time

Issued to Tennessee Valley Authority

Date of Issue December 15, 1988

For the Subscribing Companies

**MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS**

By *J. S. Quattrocchi*

Countersigned by \_\_\_\_\_

Endorsement No. 5

Nuclear Energy Liability Insurance  
NUCLEAR ENERGY LIABILITY INSURANCE ASSOCIATION

ADVANCE PREMIUM AND STANDARD PREMIUM ENDORSEMENT

CALENDAR YEAR 1989

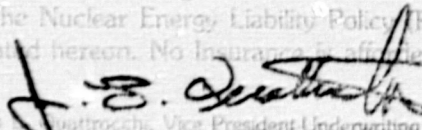
1. **ADVANCE PREMIUM:** It is agreed that the Advance Premium due the companies for the period designated above is:

\$ 687,911.00

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:

\$ 520,488.00

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. No Insurance is afforded hereunder.

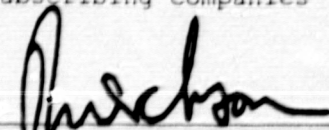
  
John Boutrocchi, Vice President Underwriting  
American Nuclear Insurers

Effective Date of this Endorsement January 1, 1989 To form a part of Policy No. NF-247  
12:01 A.M. Standard Time

Issued to Tennessee Valley Authority

Date of Issue December 15, 1988

For the Subscribing Companies

By  General Manager

Countersigned by  Authorized Representative

Endorsement No. 68

**Nuclear Energy Liability Insurance**  
**MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS**

ADVANCE PREMIUM AND STANDARD PREMIUM ENDORSEMENT

CALENDAR YEAR 1989

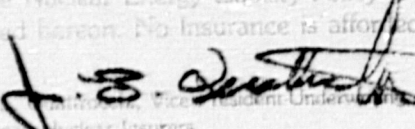
1. **ADVANCE PREMIUM:** It is agreed that the Advance Premium due the companies for the period designated above is:

\$ 199,716.00

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:

\$ 151,109.00

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. No insurance is afforded hereunder.

  
John J. Smith, Vice President Underwriter  
American Nuclear Insurers

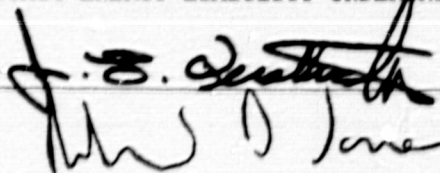
Effective Date of this Endorsement January 1, 1989 To form a part of Policy No. MF-102  
12:01 A.M. Standard Time

Issued to Tennessee Valley Authority

Date of Issue December 15, 1988

For the Subscribing Companies

**MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS**

By 

Countersigned by   
**Authorized Representative**

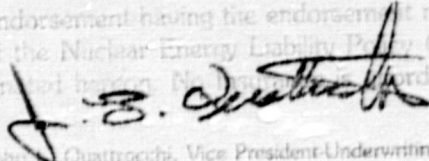
Endorsement No. 60

**Nuclear Energy Liability Insurance**  
**NUCLEAR ENERGY LIABILITY INSURANCE ASSOCIATION**

**AMENDMENT OF CONDITION 4**

It is agreed that with respect to bodily injury or property damage caused after the effective date of this endorsement by the nuclear energy hazard, the figure "\$124,000,000" stated in Condition 4 of this policy is amended to read "\$155,000,000."

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 herein. No other information is recorded hereunder.

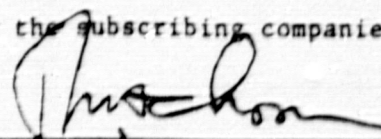
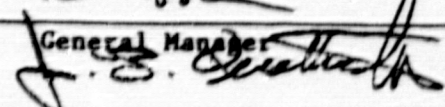
  
John J. Quattrocchi, Vice President-Underwriting  
American Nuclear Insurers

Effective Date of this Endorsement August 31, 1988 To form a part of Policy No NF-247  
12:01 A.M. Standard Time

Issued to Tennessee Valley Authority

Date of Issue December 15, 1988

For the subscribing companies

By   
General Manager  


Endorsement No 69

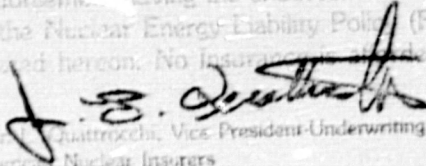
Countersigned by \_\_\_\_\_

**Nuclear Energy Liability Insurance**  
**MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS**

**AMENDMENT OF CONDITION 4**

It is agreed that with respect to bodily injury or property damage caused after the effective date of this endorsement by the nuclear energy hazard, the figure "\$36,000,000" stated in Condition 4 of this policy is amended to read "\$45,000,000."

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. No insurance is provided hereunder.

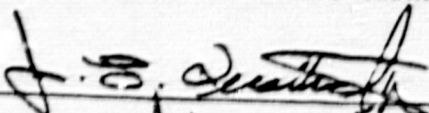
  
J. S. Quattrone, Vice President-Underwriting  
American Nuclear Insurers

Effective Date of this Endorsement August 31, 1988 To form a part of Policy No MF-102  
12:01 A.M. Standard Time

Issued to Tennessee Valley Authority

Date of Issue December 15, 1988 For the Subscribing Companies

**MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS**

By 

Endorsement No 61

Countersigned by   
Authorized Representative



**Nuclear Energy Liability Insurance**  
**NUCLEAR ENERGY LIABILITY INSURANCE ASSOCIATION**

ANNUAL PREMIUM ENDORSEMENT

Calendar Year 1989

ANNUAL PREMIUM: It is agreed that the Annual 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 ENDORSEMENT.

*J. S. Quattrocchi*  
JOHN L. QUATTROCCHI  
VICE PRESIDENT-UNDERWRITING  
AMERICAN NUCLEAR INSURERS

Effective Date of this Endorsement January 1, 1989 To form a part of Certificate No. N-66  
12:01 A.M. Standard Time

Issued to Tennessee Valley Authority

Date of Issue December 15, 1988

For the Subscribing Companies  
By *[Signature]*  
PRESIDENT

Endorsement No. 10 Countersigned by *J. S. Quattrocchi*

**Nuclear Energy Liability Insurance**  
**MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS**

ANNUAL PREMIUM ENDORSEMENT

Calendar Year 1989

ANNUAL PREMIUM: It is agreed that the Annual Premium due the companies for the period designated above is: \$ 1,688.00 .

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.

*J. S. Quattrone*  
JOHN L. QUATTRONE  
VICE PRESIDENT-UNDERWRITING  
AMERICAN NUCLEAR INSURERS

Effective Date of this Endorsement January 1, 1989 To form a part of Certificate No. M-66  
12:01 A.M. Standard Time

Issued to Tennessee Valley Authority

Date of Issue December 15, 1988

For the Subscribing Companies

**MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS**

By *J. S. Quattrone*

Countersigned by *John D. Jones*

Endorsement No. 10

**Nuclear Energy Liability Insurance**  
**NUCLEAR ENERGY LIABILITY INSURANCE ASSOCIATION**

ANNUAL PREMIUM ENDORSEMENT

Calendar Year 1989

ANNUAL PREMIUM: It is agreed that the Annual 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 ENDORSEMENT.

*J. S. Quattrocchi*  
JOHN L. QUATTROCCHI  
VICE PRESIDENT-UNDERWRITING  
AMERICAN NUCLEAR INSURERS

Effective Date of this Endorsement January 1, 1989 To form a part of Certificate No. N-75  
12:01 A.M. Standard Time

Issued to Tennessee Valley Authority

Date of Issue December 15, 1988 For the Subscribing Companies  
By *[Signature]*  
PRESIDENT

Endorsement No. 9 Countersigned by *J. S. Quattrocchi*

**Nuclear Energy Liability Insurance**  
**MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS**

ANNUAL PREMIUM ENDORSEMENT

Calendar Year 1989

ANNUAL PREMIUM: It is agreed that the Annual Premium due the companies for the period designated above is: \$ 1,688.00 .

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.

*J. S. Quattrone*  
JOHN L. QUATTRONE  
VICE PRESIDENT-UNDERWRITING  
AMERICAN NUCLEAR INSURERS

Effective Date of this Endorsement January 1, 1989 To form a part of Certificate No. M-75  
12:01 A.M. Standard Time

Issued to Tennessee Valley Authority

Date of Issue December 15, 1988

For the Subscribing Companies

**MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS**

By *J. S. Quattrone*

Countersigned by *M. D. Jones*

Endorsement No. 9

Nuclear Energy Liability Insurance  
NUCLEAR ENERGY LIABILITY INSURANCE ASSOCIATION

ADVANCE PREMIUM AND STANDARD PREMIUM ENDORSEMENT

CALENDAR YEAR 1989

1. **ADVANCE PREMIUM:** It is agreed that the Advance Premium due the companies for the period designated above is:

\$ 35,805.00

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 Retrospective Rating Plan, the Standard Premium is said Advance Premium and the estimated Reserve Premium element of the Standard Premium is:

\$ 28,644.00

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 hereunder.

*J. S. Quattrone*  
John L. Quattrone, Vice President-Underwriting  
American Nuclear Insurers

Effective Date of this Endorsement January 1, 1989 To form a part of Certificate No. NW-145  
12:01 A.M. Standard Time

Issued to Tennessee Valley Authority

Date of Issue December 15, 1988

For the Subscribing Companies

By

*Richardson*  
PRESIDENT

Endorsement No. 5

Countersigned by

*J. S. Quattrone*

**Nuclear Energy Liability Insurance**  
**MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS**

ADVANCE PREMIUM AND STANDARD PREMIUM ENDORSEMENT

CALENDAR YEAR 1989

1. **ADVANCE PREMIUM:** It is agreed that the Advance Premium due the companies for the period designated above is:

\$ 10,395.00

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 Retrospective Rating Plan, the Standard Premium is said Advance Premium and the estimated Reserve Premium element of the Standard Premium is:

\$ 8,316.00

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 hereunder.

*J. S. Quattrone*  
John L. Quattrone, Vice President Underwriting  
American Nuclear Insurers

Effective Date of this Endorsement January 1, 1989 To form a part of Certificate No. MW-72  
12:01 A.M. Standard Time

Issued to Tennessee Valley Authority

Date of Issue December 15, 1988

For the Subscribing Companies

**MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS**

By *J. S. Quattrone*  
Countersigned by *W. S. Jones*

Endorsement No. 5

**Nuclear Energy Liability Insurance**  
**NUCLEAR ENERGY LIABILITY INSURANCE ASSOCIATION**

ADVANCE PREMIUM AND STANDARD PREMIUM ENDORSEMENT

CALENDAR YEAR 1989

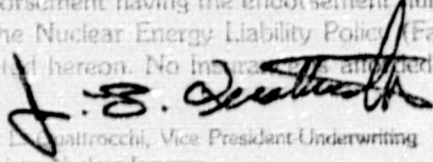
1. **ADVANCE PREMIUM:** It is agreed that the Advance Premium due the companies for the period designated above is:

\$ 6,594.00

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:

\$ 4,418.00

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. No insurance is afforded hereunder.

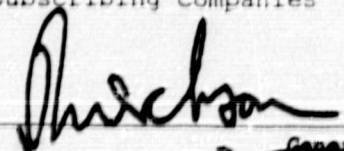
  
John L. Mastrocchi, Vice President-Underwriting  
American Nuclear Insurers

Effective Date of this Endorsement January 1, 1989 To form a part of Policy No. NF-256  
12:01 A.M. Standard Time

Issued to Tennessee Valley Authority

Date of Issue December 15, 1988

For the Subscribing Companies

By  General Manager

Countersigned by  Authorized Representative

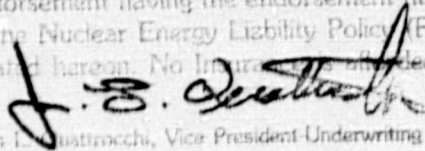
Endorsement No. 44

**Nuclear Energy Liability Insurance**  
**NUCLEAR ENERGY LIABILITY INSURANCE ASSOCIATION**

**AMENDMENT OF CONDITION 4**

It is agreed that with respect to bodily injury or property damage caused after the effective date of this endorsement by the nuclear energy hazard, the figure "\$124,000,000" stated in Condition 4 of this policy is amended to read "\$155,000,000."

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 herein. No Insurance is provided hereunder.

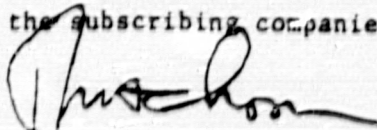
  
John L. Quattrocchi, Vice President-Underwriting  
American Nuclear Insurers

Effective Date of this Endorsement August 31, 1988 To form a part of Policy No NF-256  
12:01 A.M. Standard Time

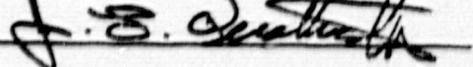
Issued to Tennessee Valley Authority

Date of Issue December 15, 1988

For the subscribing companies

By   
General Manager

Endorsement No 45

Countersigned by 



Nuclear Energy Liability Insurance  
NUCLEAR ENERGY LIABILITY INSURANCE ASSOCIATION

ADVANCE PREMIUM AND STANDARD PREMIUM ENDORSEMENT

CALENDAR YEAR 1989

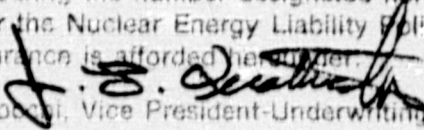
1. **ADVANCE PREMIUM:** It is agreed that the Advance Premium due the companies for the period designated above is:

\$ 3,565.00

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 Retrospective Rating Plan, the Standard Premium is said Advance Premium and the estimated Reserve Premium element of the Standard Premium is:

\$ 2,852.00

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 hereunder.

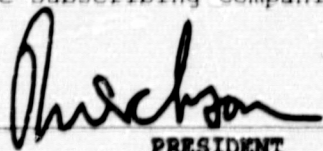
  
John L. Quattrocchi, Vice President-Underwriting  
American Nuclear Insurers

Effective Date of this Endorsement January 1, 1989 To form a part of Certificate No. NW-152  
12:01 A.M. Standard Time

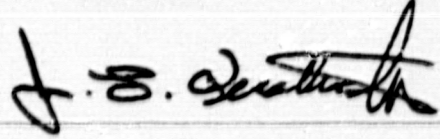
Issued to Tennessee Valley Authority

Date of Issue December 15, 1988

For the Subscribing Companies

By   
PRESIDENT

Endorsement No. 5

Countersigned by 

Nuclear Energy Liability Insurance  
**MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS**

ADVANCE PREMIUM AND STANDARD PREMIUM ENDORSEMENT

CALENDAR YEAR 1989

1. **ADVANCE PREMIUM:** It is agreed that the Advance Premium due the companies for the period designated above is:

\$ 1,035.00

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 Retrospective Rating Plan, the Standard Premium is said Advance Premium and the estimated Reserve Premium element of the Standard Premium is:

\$ 828.00

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 hereunder.

*J. S. Quattrochi*  
John L. Quattrochi, Vice President-Underwriting  
American Nuclear Insurers

Effective Date of this Endorsement January 1, 1989 To form a part of Certificate No. MW-184  
12:01 A.M. Standard Time

Issued to Tennessee Valley Authority

Date of Issue December 15, 1988

For the Subscribing Companies

**MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS**

By *J. S. Quattrochi*

Countersigned by *John D. Jones*

Endorsement No. 5

**Nuclear Energy Liability Insurance**  
**NUCLEAR ENERGY LIABILITY INSURANCE ASSOCIATION**

**ADVANCE PREMIUM AND STANDARD PREMIUM ENDORSEMENT**

**CALENDAR YEAR 1989**

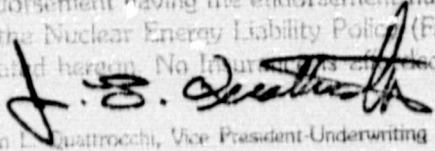
1. **ADVANCE PREMIUM:** It is agreed that the Advance Premium due the companies for the period designated above is:

\$ 6,594.00

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:

\$ 4,418.00

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 herein. No Insurance is afforded hereunder.

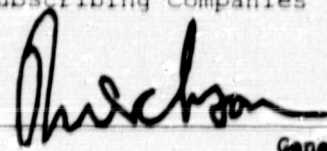
  
John L. Quattrocchi, Vice President-Underwriting  
American Nuclear Insurers

Effective Date of this Endorsement January 1, 1989 To form a part of Policy No. NF-258  
12:01 A.M. Standard Time

Issued to Tennessee Valley Authority

Date of Issue December 15, 1988

For the Subscribing Companies

By   
General Manager

Countersigned by \_\_\_\_\_  
Authorized Representative

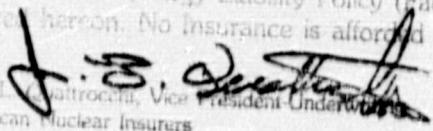
Endorsement No. 34

**Nuclear Energy Liability Insurance**  
**NUCLEAR ENERGY LIABILITY INSURANCE ASSOCIATION**

**AMENDMENT OF CONDITION 4**

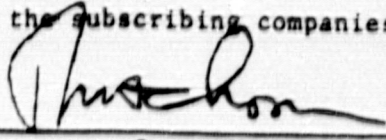
It is agreed that with respect to bodily injury or property damage caused after the effective date of this endorsement by the nuclear energy hazard, the figure "\$124,000,000" stated in Condition 4 of this policy is amended to read "\$155,000,000."

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. No insurance is afforded hereunder.

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

Effective Date of this Endorsement August 31, 1988 To form a part of Policy No NF-258  
12:01 A.M. Standard Time

Issued to Tennessee Valley Authority

Date of Issue December 15, 1988 For the subscribing companies  
By   
General Manager

Endorsement No 35 Countersigned by \_\_\_\_\_

Nuclear Energy Liability Insurance  
NUCLEAR ENERGY LIABILITY INSURANCE ASSOCIATION

ADVANCE PREMIUM AND STANDARD PREMIUM ENDORSEMENT

CALENDAR YEAR 1989

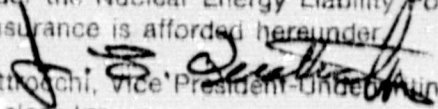
1. **ADVANCE PREMIUM:** It is agreed that the Advance Premium due the companies for the period designated above is:

\$ 3,565.00

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 Retrospective Rating Plan, the Standard Premium is said Advance Premium and the estimated Reserve Premium element of the Standard Premium is:

\$ 2,852.00

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 hereunder.

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

Effective Date of this Endorsement January 1, 1989 To form a part of Certificate No. NW-154  
12:01 A.M. Standard Time

Issued to Tennessee Valley Authority

Date of Issue December 15, 1988

For the Subscribing Companies

By   
PRESIDENT

Endorsement No. 5

Countersigned by \_\_\_\_\_

**Nuclear Energy Liability Insurance**  
**MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS**

ADVANCE PREMIUM AND STANDARD PREMIUM ENDORSEMENT

CALENDAR YEAR 1989

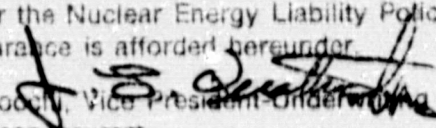
1. **ADVANCE PREMIUM:** It is agreed that the Advance Premium due the companies for the period designated above is:

\$ 1,035.00

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 Retrospective Rating Plan, the Standard Premium is said Advance Premium and the estimated Reserve Premium element of the Standard Premium is:

\$ 828.00

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 hereunder.

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

Effective Date of this Endorsement January 1, 1989 To form a part of Certificate No. MW-185  
12:01 A.M. Standard Time

Issued to Tennessee Valley Authority

Date of Issue December 15, 1988

For the Subscribing Companies

**MUTUAL ATOMIC ENERGY LIABILITY UNDERWRITERS**

By 

Countersigned by \_\_\_\_\_

Endorsement No. 5