

# NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

October 3, 1989

The Honorable J. Bennett Johnston, Chairman Subcommittee on Energy and Water Development Committee on Appropriations United States Senate Washington, D.C. 20510

Dear Mr. Chairman:

Enclosed for the information of the Subcommittee on Energy and Water Development is the final resolution of Unresolved Safety Issue (USI) A-17 "Systems Interactions in Nuclear Power Plants." The resolution consists of the enclosed NUREG reports entitled "Evaluation of Systems Interactions in Nuclear Power Plants - Technical Findings Related to USI A-17", (NUREG-1174), and "Regulatory Analysis for Resolution of USI A-17", (NUREG-1229).

USI A-17 was identified as an Unresolved Safety Issue in the 1978 NRC Annual Report pursuant to Section 210 of the Energy Reorganization Act of 1974 as amended on December 13, 1977.

The staff concluded from its USI A-17 investigations that certain actions should be taken by the NRC. These actions include guidance to the staff for use in the review and development of probabilistic risk assessments (PRA). The staff will disseminate general insights and lessons learned relevant to licensees' ongoing evaluations of reactor plant operating experience. The resolution also provides reactor licensees with more specific guidance and insights regarding flooding (including water intrusion) vulnerabilities from plant internal sources. It is expected that this guidance and insights will be taken into account by licensees in performing the Individual Plant Examinations (IPE) called for by Generic Letter 88-20.

The staff further concluded from its USI A-17 investigations that certain older plants should perform seismic system interaction reviews. However, these reviews are required to be performed as a part of the USI A-46 implementation; therefore, a separate requirement under USI A-17 is not necessary.

The staff has issued the two NUREG reports which include the recommended actions for resolution of USI A-17. The <u>Federal Register</u> notice regarding these issuances is enclosed.

Sincerely,

Eric S. Beckjord, Director

Office of Nuclear Regulatory Research

Enclosures: See following page

FULL TEXT ASCII SCAN

CC52

The Honorable J. Bennett Johnston

Enclosures:

1. NUREG-1174

2. NUREG-1229

3. Federal Register Notice and Summary Statement

cc w/encl: The Honorable Mark O. Hatfield

The Honorable J. Bennett Johnston

Enclosures:

NUREG-1174 1. NUREG-1229

2. Federal Register Notice 3. and Summary Statement

cc w/encl: The Honorable Mark O. Hatfield

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W. Minners

R. Baer

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### UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555

October 3, 1989

The Honorable Mike Synar, Chairman Subcommittee on Environment, Energy and Natural Resources Committee on Government Operations United States House of Representatives Washington, D.C. 20515

Dear Mr. Chairman:

Enclosed for the information of the Subcommittee on Environment, Energy and Natural Resources is the final resolution of Unresolved Safety Issue (USI) A-17 "Systems Interactions in Nuclear Power Plants." The resolution consists of the enclosed NUREG reports entitled, "Evaluation of Systems Interactions in Nuclear Power Plants - Technical Findings Related to USI A-17", (NUREG-1174), and "Regulatory Analysis for Resolution of USI A-17", (NUREG-1229).

USI A-17 was identified as an Unresolved Safety Issue in the 1978 NRC Annual Report pursuant to Section 210 of the Energy Reorganization Act of 1974 as amended on December 13, 1977.

The staff concluded from its USI A-17 investigations that certain actions should be taken by the NRC. These actions include guidance to the staff for use in the review and development of probabilistic risk assessments (PRA). The staff will disseminate general insights and lessons learned relevant to licensees' ongoing evaluations of reactor plant operating experience. The resolution also provides reactor licensees with more specific guidance and insights regarding flooding (including water intrusion) vulnerabilities from plant is ternal sources. It is expected that this guidance and insights will be taken into account by licensees in performing the Individual Plant Examinations (IPE) called for by Generic Letter 88-20.

The staff further concluded from its USI A-17 investigations that certain older plants should perform seismic system interaction reviews. However, these reviews are required to be performed as a part of the USI A-46 implementation; therefore, a separate requirement under USI A-17 is not necessary.

The staff has issued the two NUREG reports which include the recommended actions for resolution of USI A-17. The Federal Register notice regarding these issuances is enclosed.

Sincerely. Rou fe-

Eric S. Beckjord, Director

Office of Nuclear Regulatory Research

The Honorable Mike Synar

Enclosures:

**NUREG-1174** 

1.

NUREG-1229 Federal Register Notice and Summary Statement 3.

cc w/encl: Representative William F. Clinger, Jr.

The Honorable Mike Synar

Enclosures:

1. NUREG-1174

NUREG-1229

3. Federal Register Notice and Summary Statement

cc w/encl: Representative William F. Clinger, Jr.

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# NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

October 3, 1989

The Honorable John B. Breaux, Chairman Subcommittee on Nuclear Regulation Committee on Environment and Public Works United States Senate Washington, D.C. 20510

Dear Mr. Chairman:

Enclosed for the information of the Subcommittee on Nuclear Regulation is the final resolution of Unresolved Safety Issue (USI) A-17 "Systems Interactions in Nuclear Power Plants." The resolution consists of the enclosed NUREG reports entitled, "Evaluation of Systems Interactions in Nuclear Power Plants - Technical Findings Related to USI A-17", (NUREG-1174), and "Regulatory Analysis for Resolution of USI A-17", (NUREG-1229).

USI A-17 was identified as an Unresolved Safety Issue in the 1978 NRC Annual Report pursuant to Section 210 of the Energy Reorganization Act of 1974 as amended on December 13, 1977.

The staff concluded from its USI A-17 investigations that certain actions should be taken by the NRC. These actions include guidance to the staff for use in the review and development of probabilistic risk assessments (PRA). The staff will disseminate general insights and lessons learned relevant to licensees' ongoing evaluations of reactor plant operating experience. The resolution also provides reactor licensees with more specific guidance and insights regarding flooding (including water intrusion) vulnerabilities from plant internal sources. It is expected that this guidance and insights will be taken into account by licensees in performing the Individual Plant Examinations (IPE) called for by Generic Letter 88-20.

The staff further concluded from its USI A-17 investigations that certain older plants should perform seismic system interaction reviews. However, these reviews are required to be performed as a part of the USI A-46 implementation; therefore, a separate requirement under USI A-17 is not necessary.

The staff has issued the two NUREG reports which include the recommended actions for resolution of USI A-17. The Federal Register notice regarding these issuances is enclosed.

D& Route

Eric S. Beckjord, Director

Office of Nuclear Regulatory Research

The Honorable John B. Breaux

Enclosures: 1. NUREG-1174 1.

2.

NUREG-1229
Federal Register Notice
and Summary Statement 3.

cc w/encl: Senator Alan K. Simpson

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The Honorable John B. Breaux

Enclosures:

NUREG-1174 1.

NUREG-1229 2.

3. Federal Register Notice and Summary Statement

cc w/encl: Senator Alan K. Simpson

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## UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555

October 3, 1989

The Honorable Philip R. Sharp, Chairman Subcommittee on Energy and Power Committee on Energy and Commerce United States House of Representatives Washington, D.C. 20515

Dear Mr. Chairman:

Enclosed for the information of the Subcommittee on Energy and Power is the final resolution of Unresolved Safety Issue (USI) A-17 "Systems Interactions in Nuclear Power Plants." The resolution consists of the enclosed NUREG reports entitled, "Evaluation of Systems Interactions in Nuclear Power Plants - Technical Findings Related to USI A-17", (NUREG-1174), and "Regulatory Analysis for Resolution of USI A-17", (NUREG-1229).

USI A-17 was identified as an Unresolved Safety Issue in the 1978 NRC Annual Report pursuant to Section 210 of the Energy Reorganization Act of 1974 as amended on December 13, 1977.

The staff concluded from its USI A-17 investigations that certain actions should be taken by the NRC. These actions include guidance to the staff for use in the review and development of probabilistic risk assessments (PRA). The staff will disseminate general insights and lessons learned relevant to licensees' ongoing evaluations of reactor plant operating experience. The resolution also provides reactor licensees with more specific guidance and insights regarding flooding (including water intrusion) vulnerabilities from plant internal sources. It is expected that this guidance and insights will be taken into account by licensees in performing the Individual Plant Examinations (IPE) called for by Generic Letter 88-20.

The staff further concluded from its USI A-17 investigations that certain older plants should perform seismic system interaction reviews. However, these reviews are required to be performed as a part of the USI A-46 implementation; therefore, a separate requirement under USI A-17 is not necessary.

The staff has issued the two NUREG reports which include the recommended actions for resolution of USI A-17. The <u>Federal Register</u> notice regarding these issuances is enclosed.

Sincerely,

Eric S. Beckjord, Director

Office of Nuclear Regulatory Research

The Honorable Philip Sharp

Enclosures:

1. NUREG-1174 2. NUREG-1229

NUREG-1229
Federal Register Notice
and Summary Statement 3.

cc w/encl: Representative Carlos J. Morhead

Enclosures:

1. NUREG-1174

2. NUREG-1229

3. Federal Register Notice and Summary Statement

cc w/encl: Representative Carlos J. Morhead

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### UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555

October 3, 1989

The Honorable Morris K. Udall, Chairman Subcommittee on Energy and the Environment Committee on Interior and Insular Affairs United States House of Representatives Washington, D.C. 20515

Dear Mr. Chairman:

Enclosed for the information of the Subcommittee on Energy and the Environment is the final resolution of Unresolved Safety Issue (USI) A-17 "Systems Interactions in Nuclear Power Plants." The resolution consists of the enclosed NUREG reports entitled, "Evaluation of Systems Interactions in Nuclear Power Plants - Technical Findings Related to USI A-17", (NUREG-1174), and "Regulatory Analysis for Resolution of USI A-17", (NUREG-1229).

USI A-17 was identified as an Unresolved Safety Issue in the 1978 NRC Annual Report pursuant to Section 210 of the Energy Reorganization Act of 1974 as amended on December 13, 1977.

The staff concluded from its USI A-17 investigations that certain actions should be taken by the NRC. These actions include guidance to the staff for use in the review and development of probabilistic risk assessments (PRA). The staff will disseminate general insights and lessons learned relevant to licensees' ongoing evaluations of reactor plant operating experience. The resolution also provides reactor licensees with more specific guidance and insights regarding flooding (including water intrusion) vulnerabilities from plant internal sources. It is expected that this guidance and insights will be taken into account by licensees in performing the Individual Plant Examinations (IPE) called for by Generic Letter 88-20.

The staff further concluded from its USI A-17 investigations that certain older plants should perform seismic system interaction reviews. However, these reviews are required to be performed as a part of the USI A-46 implementation; therefore, a separate requirement under USI A-17 is not necessary.

The staff has issued the two NUREG reports which include the recommended actions for resolution of USI A-17. The Federal Register notice regarding these issuances is enclosed.

Eric S. Beckjord, Director

Office of Nuclear Regulatory Research

The Honorable Morris K. Udall

Enclosures:

NUREG-1174

NUREG-1229

2. Federal Register Notice and Summary Statement

cc w/encl: Representative James V. Hansen

The Honorable Morris Udall

Enclosures:

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NUREG-1174 1.

2. NUREG-1229

Federal Register Notice and Summary Statement

cc w/encl: Representative James V. Hansen

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