

August 31, 2005

The Honorable George V. Voinovich, Chairman  
Subcommittee on Clean Air, Climate Change,  
and Nuclear Safety  
Committee on Environment and Public Works  
United States Senate  
Washington, DC 20510

Dear Mr. Chairman:

The Nuclear Regulatory Commission (NRC) has forwarded the enclosed notice denying a petition for rulemaking (PRM) to the Office of the Federal Register for publication. The petition, PRM-50-76, requested that the NRC amend its regulations that govern the evaluation of emergency core cooling systems (ECCS) performance, including the associated guidance documents. The petitioner asserts that amendments are necessary to correct technical deficiencies in the correlations and data used for calculation of metal-water oxidation. The petitioner states that the correlations do not consider the complex thermal-hydraulic conditions present during a loss-of-coolant accident (LOCA), including the potential for very high fluid temperature.

The NRC reviewed the petition and found that none of the specific technical issues raised by the petitioner have shown safety-significant deficiencies in the research, calculation methods, or data used to support ECCS performance evaluations. NRC's technical safety analysis demonstrates that current procedures for evaluating ECCS performance are based on sound science and that no amendments to the NRC's regulations and guidance documents are necessary.

Sincerely,

**/RA/** BY Thomas Madden for:

William N. Outlaw, Acting Director  
Office of Congressional Affairs

Enclosure:  
Notice of Denial of Petition  
for Rulemaking

cc: Senator Thomas R. Carper

August 31, 2005

The Honorable George V. Voinovich, Chairman  
Subcommittee on Clean Air, Climate Change,  
and Nuclear Safety  
Committee on Environment and Public Works  
United States Senate  
Washington, DC 20510

Dear Mr. Chairman:

The Nuclear Regulatory Commission (NRC) has forwarded the enclosed notice denying a petition for rulemaking (PRM) to the Office of the Federal Register for publication. The petition, PRM-50-76, requested that the NRC amend its regulations that govern the evaluation of emergency core cooling systems (ECCS) performance, including the associated guidance documents. The petitioner asserts that amendments are necessary to correct technical deficiencies in the correlations and data used for calculation of metal-water oxidation. The petitioner states that the correlations do not consider the complex thermal-hydraulic conditions present during a loss-of-coolant accident (LOCA), including the potential for very high fluid temperature.

The NRC reviewed the petition and found that none of the specific technical issues raised by the petitioner have shown safety-significant deficiencies in the research, calculation methods, or data used to support ECCS performance evaluations. NRC's technical safety analysis demonstrates that current procedures for evaluating ECCS performance are based on sound science and that no amendments to the NRC's regulations and guidance documents are necessary.

Sincerely,

ORIGINAL SIGNED BY THOMAS MADDEN FOR:

William N. Outlaw, Acting Director  
Office of Congressional Affairs

Enclosure:  
Notice of Denial of Petition  
for Rulemaking

cc: Senator Thomas R. Carper

DISTRIBUTION:

Publicly available            RPRP r/f            JDyer    DMatthews  
FGillespie                    NLauben            LWard

Accession Number: **ML052220156**

\*See previous concurrences

OFFIC	RPRP:DR	RPRP:DRIP:PD	ADM/DAS/RDB	OCA
NAME	TReed*	EMcKenna*	MLesar	TMadden for WOutlaw
DATE	08/18 /05	08/18 /05	08/ 22/05	08/29/05

OFFICIAL RECORD COPY

August 31, 2005

The Honorable Ralph M. Hall, Chairman  
Subcommittee on Energy and Air Quality  
Committee on Energy and Commerce  
United States House of Representatives  
Washington, DC 20515

Dear Mr. Chairman:

The Nuclear Regulatory Commission (NRC) has forwarded the enclosed notice denying a petition for rulemaking (PRM) to the Office of the Federal Register for publication. The petition, PRM-50-76, requested that the NRC amend its regulations that govern the evaluation of emergency core cooling systems (ECCS) performance, including the associated guidance documents. The petitioner asserts that amendments are necessary to correct technical deficiencies in the correlations and data used for calculation of metal-water oxidation. The petitioner states that the correlations do not consider the complex thermal-hydraulic conditions present during a loss-of-coolant accident (LOCA), including the potential for very high fluid temperature.

The NRC reviewed the petition and found that none of the specific technical issues raised by the petitioner have shown safety-significant deficiencies in the research, calculation methods, or data used to support ECCS performance evaluations. NRC's technical safety analysis demonstrates that current procedures for evaluating ECCS performance are based on sound science and that no amendments to the NRC's regulations and guidance documents are necessary.

Sincerely,

**/RA/** BY THOMAS MADDEN FOR:

William N. Outlaw, Acting Director  
Office of Congressional Affairs

Enclosure:  
Notice of Denial of Petition  
for Rulemaking

cc: Representative Rick Boucher

The Honorable Ralph M. Hall, Chairman  
Subcommittee on Energy and Air Quality  
Committee on Energy and Commerce  
United States House of Representatives  
Washington, DC 20515

Dear Mr. Chairman:

The Nuclear Regulatory Commission (NRC) has forwarded the enclosed notice denying a petition for rulemaking (PRM) to the Office of the Federal Register for publication. The petition, PRM-50-76, requested that the NRC amend its regulations that govern the evaluation of emergency core cooling systems (ECCS) performance, including the associated guidance documents. The petitioner asserts that amendments are necessary to correct technical deficiencies in the correlations and data used for calculation of metal-water oxidation. The petitioner states that the correlations do not consider the complex thermal-hydraulic conditions present during a loss-of-coolant accident (LOCA), including the potential for very high fluid temperature.

The NRC reviewed the petition and found that none of the specific technical issues raised by the petitioner have shown safety-significant deficiencies in the research, calculation methods, or data used to support ECCS performance evaluations. NRC's technical safety analysis demonstrates that current procedures for evaluating ECCS performance are based on sound science and that no amendments to the NRC's regulations and guidance documents are necessary.

Sincerely,

ORIGINAL SIGNED BY THOMAS MADDEN FOR

William N. Outlaw, Acting Director  
Office of Congressional Affairs

Enclosure:  
Notice of Denial of Petition  
for Rulemaking

cc: Representative Rick Boucher

DISTRIBUTION:

Publicly available      RPRP r/f      JDyer    DMatthews  
FGillespie              NLauben      LWard  
Accession Number: **ML052220156**

\*See previous concurrences

OFFIC	RPRP:DR	RPRP:DRIP:PD	ADM/DAS/RDB	OCA
NAME	TReed*	EMcKenna*	MLesar	TMadden for WOutlaw
DATE	08/18/05	08/18/05	08/22/05	08/29/05

OFFICIAL RECORD COPY

August 31, 2005

The Honorable James M. Inhofe, Chairman  
Committee on Environment and Public Works  
United States Senate  
Washington, DC 20510

Dear Mr. Chairman:

The Nuclear Regulatory Commission (NRC) has forwarded the enclosed notice denying a petition for rulemaking (PRM) to the Office of the Federal Register for publication. The petition, PRM-50-76, requested that the NRC amend its regulations that govern the evaluation of emergency core cooling systems (ECCS) performance, including the associated guidance documents. The petitioner asserts that amendments are necessary to correct technical deficiencies in the correlations and data used for calculation of metal-water oxidation. The petitioner states that the correlations do not consider the complex thermal-hydraulic conditions present during a loss-of-coolant accident (LOCA), including the potential for very high fluid temperature.

The NRC reviewed the petition and found that none of the specific technical issues raised by the petitioner have shown safety-significant deficiencies in the research, calculation methods, or data used to support ECCS performance evaluations. NRC's technical safety analysis demonstrates that current procedures for evaluating ECCS performance are based on sound science and that no amendments to the NRC's regulations and guidance documents are necessary.

Sincerely,

**/RA/** BY THOMAS MADDEN FOR:

William N. Outlaw, Acting Director  
Office of Congressional Affairs

Enclosure:  
Notice of Denial of Petition  
for Rulemaking

cc: Senator James M. Jeffords

August 31, 2005

The Honorable James M. Inhofe, Chairman  
Committee on Environment and Public Works  
United States Senate  
Washington, DC 20510

Dear Mr. Chairman:

The Nuclear Regulatory Commission (NRC) has forwarded the enclosed notice denying a petition for rulemaking (PRM) to the Office of the Federal Register for publication. The petition, PRM-50-76, requested that the NRC amend its regulations that govern the evaluation of emergency core cooling systems (ECCS) performance, including the associated guidance documents. The petitioner asserts that amendments are necessary to correct technical deficiencies in the correlations and data used for calculation of metal-water oxidation. The petitioner states that the correlations do not consider the complex thermal-hydraulic conditions present during a loss-of-coolant accident (LOCA), including the potential for very high fluid temperature.

The NRC reviewed the petition and found that none of the specific technical issues raised by the petitioner have shown safety-significant deficiencies in the research, calculation methods, or data used to support ECCS performance evaluations. NRC's technical safety analysis demonstrates that current procedures for evaluating ECCS performance are based on sound science and that no amendments to the NRC's regulations and guidance documents are necessary.

Sincerely,

ORIGINAL SIGNED BY THOMAS MADDEN FOR:

William N. Outlaw, Acting Director  
Office of Congressional Affairs

Enclosure:  
Notice of Denial of Petition  
for Rulemaking

cc: Senator James M. Jeffords

DISTRIBUTION:

Publicly available      RPRP r/f      JDyer    DMatthews  
FGillespie              NLauben      LWard

Accession Number: **ML052220156**

\*See previous concurrences

OFFICE	RPRP:DRIP	RPRP:DRIP:PD	ADM/DAS/RDB:	OCA
NAME	TReed*	EMcKenna*	MLesar	TMadden for WOutlaw
DATE	08/18/05	08/18/05	08 /22 /05	08/29/05

OFFICIAL RECORD COPY

August 31, 2005

The Honorable Joe Barton, Chairman  
Committee on Energy and Commerce  
United States House of Representatives  
Washington, DC 20515

Dear Mr. Chairman:

The Nuclear Regulatory Commission (NRC) has forwarded the enclosed notice denying a petition for rulemaking (PRM) to the Office of the Federal Register for publication. The petition, PRM-50-76, requested that the NRC amend its regulations that govern the evaluation of emergency core cooling systems (ECCS) performance, including the associated guidance documents. The petitioner asserts that amendments are necessary to correct technical deficiencies in the correlations and data used for calculation of metal-water oxidation. The petitioner states that the correlations do not consider the complex thermal-hydraulic conditions present during a loss-of-coolant accident (LOCA), including the potential for very high fluid temperature.

The NRC reviewed the petition and found that none of the specific technical issues raised by the petitioner have shown safety-significant deficiencies in the research, calculation methods, or data used to support ECCS performance evaluations. NRC's technical safety analysis demonstrates that current procedures for evaluating ECCS performance are based on sound science and that no amendments to the NRC's regulations and guidance documents are necessary.

Sincerely,

**/RA/** BY THOMAS MADDEN FOR:

William N. Outlaw, Acting Director  
Office of Congressional Affairs

Enclosure:  
Notice of Denial of Petition  
for Rulemaking

cc: Representative John D. Dingell

August 31, 2005

The Honorable Joe Barton, Chairman  
Committee on Energy and Commerce  
United States House of Representatives  
Washington, DC 20515

Dear Mr. Chairman:

The Nuclear Regulatory Commission (NRC) has forwarded the enclosed notice denying a petition for rulemaking (PRM) to the Office of the Federal Register for publication. The petition, PRM-50-76, requested that the NRC amend its regulations that govern the evaluation of emergency core cooling systems (ECCS) performance, including the associated guidance documents. The petitioner asserts that amendments are necessary to correct technical deficiencies in the correlations and data used for calculation of metal-water oxidation. The petitioner states that the correlations do not consider the complex thermal-hydraulic conditions present during a loss-of-coolant accident (LOCA), including the potential for very high fluid temperature.

The NRC reviewed the petition and found that none of the specific technical issues raised by the petitioner have shown safety-significant deficiencies in the research, calculation methods, or data used to support ECCS performance evaluations. NRC's technical safety analysis demonstrates that current procedures for evaluating ECCS performance are based on sound science and that no amendments to the NRC's regulations and guidance documents are necessary.

Sincerely,

Original Signed by Thomas Madden for:

William N. Outlaw, Acting Director  
Office of Congressional Affairs

Enclosure:  
Notice of Denial of Petition  
for Rulemaking

cc: Representative John D. Dingell

DISTRIBUTION:

Publicly available      RPRP r/f      JDyer    DMatthews  
FGillespie              NLauben      LWard

Accession Number: **ML052220156**

\*See previous concurrence

OFFICE	RPRP:DRIP	RPRP:DRIP:PD	ADM/DAS/RDB	OCA
NAME	TReed*	EMcKenna*	MLesar	TMadden for WOutlaw
DATE	08/18/05	08/18/05	08/22/05	08/29/05

OFFICIAL RECORD COPY