



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

November 22, 2004

SECRETARY

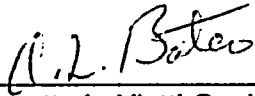
COMMISSION VOTING RECORD

DECISION ITEM: SECY-04-0200

TITLE: A RISK-INFORMED APPROACH TO DEFINING THE
DESIGN BASIS TORNADO FOR NEW REACTOR
LICENSING

The Commission (with all Commissioners agreeing) approved in part and disapproved in part the subject paper as recorded in the Staff Requirements Memorandum (SRM) of November 22, 2004.

This Record contains a summary of voting on this matter together with the individual vote sheets, views and comments of the Commission.



Annette L. Vietti-Cook
Secretary of the Commission

Attachments:

1. Voting Summary
2. Commissioner Vote Sheets

cc: Chairman Diaz
Commissioner McGaffigan
Commissioner Merrifield
OGC
EDO
PDR

VOTING SUMMARY - SECY-04-0200

RECORDED VOTES

	APRVD	DISAPRVD	ABSTAIN	NOT PARTICIP	COMMENTS	DATE
CHRM. DIAZ	X				X	11/9/04
COMR. McGAFFIGAN	X				X	11/16/04
COMR. MERRIFIELD	X				X	11/10/04

COMMENT RESOLUTION

In their vote sheets, all Commissioners approved the staff's recommendation and provided some additional comments. Subsequently, the comments of the Commission were incorporated into the guidance to staff as reflected in the SRM issued on November 22, 2004.

NOTATION VOTE

RESPONSE SHEET

TO: Annette Vietti-Cook, Secretary

FROM: CHAIRMAN DIAZ

SUBJECT: **SECY-04-0200 - A RISK-INFORMED APPROACH TO
DEFINING THE DESIGN BASIS TORNADO FOR NEW
REACTOR LICENSING**

Approved xx ^{in part} AS Disapproved xx ^{in part} AS Abstain _____
Not Participating _____

COMMENTS:

See attached comments.

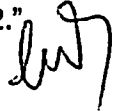
Bill G. Diaz
SIGNATURE

Nov 9, 04
DATE

Entered on "STARS" Yes ___ No ___

Chairman Diaz's Comments on SECY-04-0200

I approve, in part, the staff's recommendations in SECY-04-0200, "A RISK-INFORMED APPROACH TO DEFINING THE DESIGN BASIS TORNADO FOR NEW REACTOR LICENSING." The staff should proceed with "Option 1" and proceed with the update of NUREG/CR-4461, "Tornado Climatology of the Contiguous United States." The staff should complete the update of NUREG/CR-4461, report the results to the Commission, and present the Commission with a plan for updating the affected guidance documents. SECY-04-0200 states that when fully implemented in applicable regulatory documents, "Option 1" will likely remove any inconsistency between the Regulatory Guide, design certification documents, and Review Standard 002. As a result, if the inconsistencies are removed through "Option 1," the staff should not proceed with "Option 2."

A handwritten signature in black ink, appearing to be 'LD', is written over the end of the text.

NOTATION VOTE
RESPONSE SHEET

TO: Annette Vietti-Cook, Secretary
FROM: COMMISSIONER MCGAFFIGAN
SUBJECT: SECY-04-0200 - A RISK-INFORMED APPROACH TO
DEFINING THE DESIGN BASIS TORNADO FOR NEW
REACTOR LICENSING

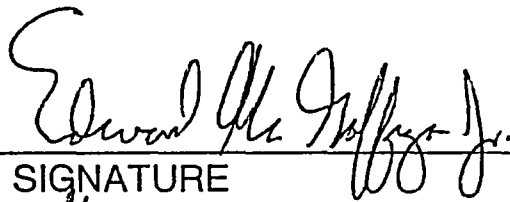
w/comments

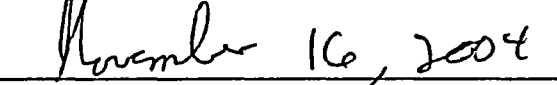
Approved Disapproved Abstain

Not Participating

COMMENTS:

Approve in part - Disapprove in part.
See attached comments.



SIGNATURE


DATE

Entered on "STARS" Yes No

Commissioner McGaffigan's Comments on SECY-04-0200

I approve the staff recommendation to implement Option 1. I do not support either Option 2 and Option 3 at this time.

The staff should expeditiously complete Option 1 to remove any inconsistency in NRC regulatory guidance documents concerning design basis maximum tornado wind speeds. The staff should promptly notify the Commission if that outcome cannot be achieved within the scope of Option 1.

I believe that the probability numbers that the staff has used historically to generate maximum tornado wind speeds (e.g., one in ten million) are orders of magnitude above values used for other challenging phenomena, such as earthquakes and floods. Thus, revisiting tornado wind speeds using risk-informed methods would likely lead to lower maximum design speed regulatory requirements without appreciable increase in risk from tornados. Nonetheless, I do not support Option 2 or Options 3 because of the substantial resources that would be required to attempt the effort and the fact that the current requirements provide risk benefits in the area of security that I am unable to quantify.

EMZ

NOTATION VOTE

RESPONSE SHEET

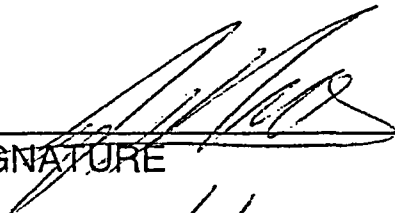
TO: Annette Vietti-Cook, Secretary
FROM: COMMISSIONER MERRIFIELD
SUBJECT: **SECY-04-0200 - A RISK-INFORMED APPROACH TO
DEFINING THE DESIGN BASIS TORNADO FOR NEW
REACTOR LICENSING**

Approved *in part* Disapproved *in part* Abstain

Not Participating

COMMENTS:

See attached comments.



SIGNATURE

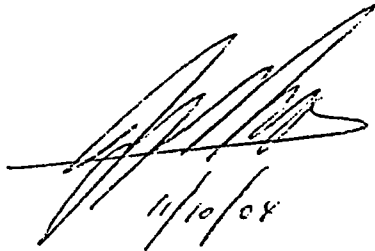
11/18/04

DATE

Entered on "STARS" Yes No

Commissioner Merrifield's Comments on SECY-04-0200

I approve the staff's approach to proceed with Option 1 to maintain the current definition of the design basis tornado parameters in SECY-93-087, "Policy, Technical, and Licensing Issues Pertaining to Evolutionary and Advanced Light -Water Reactor Designs." When the staff completes the update to NUREG/CR-4461, "Tornado Climatology of the Contiguous United States," a maximum tornado wind speed should be defined, and any inconsistencies between NUREG/CR-4461 and the current guidance documents should be resolved by updating those documents. I do not agree with the staff's recommendation to proceed with Option 2 at this time.



11/10/08