

*K. Cornell cpy to
EKC DeYoung*

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

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PDR



JUN 19 1979

Dr. William Bland
Presidents Commission on the
Accident at Three Mile Island
Suite 714
2100 M Street, NW
Washington, DC 20037

Dear Dr. Bland:

This is a summary answer to your recent telephone question regarding the use in the licensing process of Failure Modes and Effects Analysis (FMEA). In order to get you a quick answer, I canvassed the ten technical review branches in the Division of Systems Safety which is where I would expect most of this work to take place.

Five branches reported they don't use FMEA at all. They are the Core Performance Branch, Mechanical Engineering Branch, Analysis Branch, Materials Engineering Branch and the Structural Engineering Branch. The replies of the other five branches are attached. As you can see the amount of usage of this technique varies considerably among the different technical disciplines. Partly this is because the appropriateness varies among system types and partly because of differences in personal approaches of senior reviewers in the different disciplines.

Also attached are various references primarily the standard format and contents of safety analysis reports for nuclear power plants (NRC Regulatory Guide 1.70) and the NRC Standard Review Plan (NUREG 75/087).

I hope this information will be useful to you. Please feel free to call me if you need more.

Sincerely,

S. H. Hanauer, Director
Unresolved Safety Issues Program

Enclosure:
See next page

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Enclosures:

1. Memo to S. Hanauer fm
R. Bosnak dtd 6/18/79
2. Memo to S. Lynd fm
T. Dunning dtd 6/18/79
3. Memo to S. Lynd fm
R. Fitzpatrick dtd 6/15/79
4. Memo to S. Lynd fm
T. Novak dtd 6/18/79
5. Auxiliary Systems Branch -
FMEA
6. Containment Systems Branch
Responses to Questions

cc: K. Cornell
H. Denton
R. Mattson
E. Case
D. Eisenhut
T. Novak
Z. Rosztoczy
K. Kniel
W. Butler
R. Bosnak
S. Pawlicki
F. Schauer
V. Benaroya
R. Satterfield
F. Rosa
R. Denise
V. Moore
J. Knight
F. Schroeder