

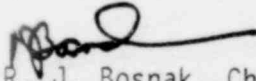
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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

JUN 18 1979

NOTE TO: S. H. Hanauer  
FROM: R. J. Bosnak  
SUBJECT: FMEA

1. The Mechanical Engineering Branch's Standard Review Plans do not require a formal failure modes and effects analysis. Components are designed with margin and are not postulated to fail. However, to achieve a degree of defense in depth, high energy piping is postulated to fail at specific locations and systems and structures must be protected against the mechanistic effects of such postulated pipe breaks by separation, barriers, or restraints. The environmental effects of such piping failures are also considered.
- 2 & 3. The applicants perform the pipe break effects analysis which is reviewed by the Mechanical Engineering Branch, the Structural Engineering Branch and several of the Systems branches who also require that a single active failure be included in the evaluation.

  
R. J. Bosnak, Chief  
Mechanical Engineering Branch  
Division of Systems Safety

cc: J. Knight, DSS  
H. Brammer, DSS  
F. Cherny, DSS

Reactor Systems Branch  
Analysis Branch  
Core Performance Branch  
Containment Systems Branch  
✓ Mechanical Engineering Branch  
Materials Engineering Branch  
Structural Engineering Branch  
Auxiliary Systems Branch  
Instrumentation and Control Systems Branch  
Power Systems Branch

Please provide the following information to Sue Lynd (x27754) by  
COB Monday (6/18).

The Presidents TMI Commission wants to know:

1. Where we require appl. to do FMEA (Failure Modes and Effects Analysis.)
2. What we want them to do with #1.
3. What we do with #1.
4. Where we (NRC) do FMEA.