



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

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OCT 25 1979

NOTE TO: G. Lainas, Chief, Plant Systems Branch, DOR
FROM: R. Ferguson, Section Leader, Plant Systems Branch, DOR
SUBJECT: ACRS SUBCOMMITTEE MEETING RE: PROPOSED RULE ON
FIRE PROTECTION

On October 25, 1979, M. Bender, ACRS (8-624-6455) called to suggest that we meet on November 14, 1979 with the ACRS Subcommittee on Fire Protection (Messrs. Bender, Etherington and Ebersole) to discuss the proposed rule. He suggested the following agenda:

1. Purpose of the Rule
2. Points covered by the rule and the basis for each point.
3. Response to Subcommittee questions.

Subsequently, Peter Tam (ACRS Staff ext. 41413) called to change the date to December 5, 1979. We will meet in Room 1046, H Street Building from 2 - 5 pm. He tentatively plans to go before the full-committee on December 5 or 6, 1979.

At present the proposed rule sets forth several general and specific requirements that are needed to establish certain minimum requirements to comply with General Design Criterion 3. These specific requirements are needed to resolve outstanding issues with one or more licensees. These requirements are summarized below.

I. General Requirements

1. Fire Protection Program - Requires a "defense-in-depth" program administered and implemented by qualified personnel.
2. Passive and Active Systems - Requires fire barriers, separation between shutdown systems, detection systems and suppression systems.

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3. Manual Fire Fighting - Requires Manual firefighting capability throughout the plant.
4. Manual Fire Fighting Access - Requires sufficient access to all areas to permit manual fire fighting.
5. Fire Hazards Analysis - Requires an analysis of the effects of potential fires on shutdown capability and on capability to control the release of radioactive material.

II. Specific Requirements

1. Fire Water Distribution System - Requires separated supplies and supply feeders.
2. Water Supply - Requires two storage tanks, each with two hour capability, or redundant suction points from a large body of water.
3. Manual Fire Suppression - Requires hose steam coverage of safety related areas.
4. Automatic Fire Detection - Requires coverage of all safety related areas.
5. Automatic Fire Suppression - Requires coverage for all areas containing redundant shutdown systems, specifies limits that require alternate shutdown capability, and credits for flame retardant coatings, covered trays, heat shields, etc.
6. Fire Brigade Sizes - Requires minimum site shift size of five persons.
7. Fire Brigade Training - Requires training program which includes classroom instructors, practice in fire fighting, fire drills, and records of training given fire brigade members.
8. Emergency Lighting - Requires fixed lighting system with eight-hour battery supplies.
9. Administrative Controls - Requires controls over combustibles, and ignition sources.

10. Alternate Shutdown System - Requires minimum shutdown capability to survive postulated fires.

R. Ferguson

R. Ferguson, Section Leader
Plant Systems Branch
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