



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

JUL 17 1979

MEMORANDUM FOR: B. Grimes, Assistant Director for Systems Engineering
Division of Operating Reactors

THRU: G. Lainas, Chief, Plant Systems Branch, Division of ^{3/17/62}
Operating Reactors

FROM: R. Ferguson, Section Leader, Plant Systems Branch,
Division of Operating Reactors

SUBJECT: SUPPLEMENTAL FIRE PROTECTION GUIDELINES TO EXPEDITE
RESOLUTION OF OPEN ITEMS

Since August 23, 1976, the staff has been using the guidelines presented in Appendix A to BTP APCS 9.5.1 in reviewing the fire protection programs at operating plants. The SER's issued for these evaluations contain several open items. Some of these are similar for several plants and the present guidelines do not provide sufficient guidance to permit resolution efficiently.

We have initiated a program to prepare concise, supplementary guidelines to expedite the completion of this program. Selected guidelines will be prepared in a staff position format. The areas selected are those in which staff positions must be formulated to resolve issues that are common to several plants. Our present list of candidate guidelines is enclosed. This list will be up-dated as necessary.

These supplementary guidelines will be prepared by the DOR reviewers to expedite the completion of our evaluations. They will be approved by the Chief, Plant Systems Branch prior to transmittal to the licensees, DSS, I&E, RES, and OSD. We believe these guidelines will be useful to the other NRC offices in their efforts associated with fire programs in operating plants, the development of future guidelines or Regulations for fire protection and the conduct of certain aspects of the fire protection research program.

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ENCLOSURE 1

FIRE PROTECTION GUIDELINES USEFUL
TO RESOLVE OPEN ITEMS

1. DEDICATED SHUTDOWN SYSTEMS (Knight) 6/19/79C
The partial guidelines established after our Oconee evaluation should be completed and approved by the staff. The fire protection requirements for plants with a dedicated shutdown system should be stated.
2. ALTERNATIVE SHUTDOWN SYSTEMS (Knight) 6/19/79C
Same as 1 as applicable for alternate shutdown system.
3. ASSOCIATED NON-SAFETY CIRCUITS (Knight) 9/79
Separation and isolation criteria to assure fire damage to such circuits will not disable shutdown systems.
4. FIRE RETARDANTS (Sylvester/Heit) 12/79
Criteria for the need, location, and quality assurance for fire retardants, (e.g., coatings, tray covers, ceramic blankets).
5. WATER SHIELDS (Derderian) 12/79
Criteria for water shields protecting sensitive electrical equipment from fire suppression agents.
6. FIRE BRIGADE SIZE (Ferguson) 6/28/79C
Evaluation support staff position requiring five persons on the minimum shift fire brigade.
7. FIRE BRIGADE TRAINING (Ferguson) 6/28/79C
Staff position requiring minimum fire fighting training for fire brigade members.
8. FIRE BRIGADE DRILL FREQUENCY (Ferguson) 9/79
Staff position requiring minimum drill frequency requirements.
9. REACTOR COOLANT OIL COLLECTION SYSTEM (George) 9/79
Criteria for points to be covered, oil storage and seismic design.
10. IN SITU TESTING OF SMOKE DETECTION SYSTEMS (Sylvester) 2/80
Criteria for the in-situ tests and other verification methods used to verify that installed smoke detectors will provide an early fire warning.

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