



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

COMJA-80-37

January 21, 1981

OFFICE OF THE  
SECRETARY

MEMORANDUM FOR: William J. Dircks, Executive Director  
for Operations

FROM: Samuel J. Chilk, Secretary

SUBJECT: ACTION PLAN III.A.1.2 - EOF

Subsequent to the October 30, 1980 Commission meeting on the subject matter, the staff responded by memorandum dated November 12, 1980 in which a number of options were delineated (Enclosure 1 of November 12, 1980 memorandum - a marked-up copy is enclosed).

Among the various options proposed for EOF's, the Commission approves Option 2 (two facilities) for all reactor facilities licensed or to be licensed for operation. The Commission also approves a modified Option 4 (one facility and no protection factor) for all reactors if the EOF is located at or beyond 10 miles from the reactor with the provision that if the EOF is located beyond 20 miles, specific Commission approval is required\* and arrangements to locate the NRC staff closer to the reactor are provided. The footnotes in Enclosure 1 to the November 12 memorandum apply, as noted on the modified copy enclosed. The TVA arrangement for a centralized EOF is acceptable as a special case of Option 4, with the addition of some provisions near each site for the NRC site team. These provisions need not be elaborate and would be satisfied by a trailer with connections to the TVA emergency communications network.

The Commission as a whole does not have a preference for either of the two options. In coming to this decision, the Commission recognizes that it is the licensees' responsibility to decide where and how their EOF should be built, as long as they meet the criteria required by either option, as modified by this memorandum.

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\*Chairman Ahearne believes that the EDO is capable of determining the acceptability of exceptions to guidelines in either option without further Commission guidance.

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By this memorandum, the staff is hereby instructed to proceed with the issuance of Action Plan III.A.1.2.

Enclosure:  
As Stated

cc:  
Chairman Ahearne  
Commissioner Gilinsky  
Commissioner Hendrie  
Commissioner Bradford  
Commission Staff Offices

EMERGENCY OPERATIONS FACILITY~~OPTION 1\*  
One Facility~~~~Within about 10 Miles~~~~Fully habitable  
Following Accident\*\*\*~~~~Specified Protection factors~~

| PF | Distance |
|----|----------|
| 50 | 1/2 Mile |
| 25 | 1 Mile   |
| 15 | 5 Miles  |
| 10 | 10 Miles |

~~Ventilation system isolation  
with:~~

- HEPA Filters
- Charcoal Filters

OPTION 2\*  
Two Facilities\*\*

- A. Close-in primary:  
reduced habitability\*\*\*
- within 10 miles
  - protection factor = 5
  - ventilation isolation with HEPA (no charcoal)
- B. Backup EOF
- between 10-20 miles
  - no separate, dedicated facility
  - arrangements for portable backup equipment
  - strongly recommend location be coordinated with offsite authorities
  - continuity of dose projection and decision making capability

~~OPTION 3\*  
One Facility\*\*~~

- 5 to 15 miles
- Well engineered, no special protection factors
- No special ventilation isolation or filters
- Strongly recommend location be coordinated with offsite authorities

~~OPTION 3A\*  
Two Facilities\*\*~~

- A. Close-in primary:  
reduced habitability
- About 5 miles
  - Well engineered, no special protection factors
  - No special ventilation isolation or filters
  - Strongly recommend location be coordinated with offsite authorities
- B. Backup EOF
- Between 10-20 miles
  - No separate, Dedicated facility
  - Arrangements for portable backup equipment
  - Strongly recommend location be coordinated with offsite authorities
  - Continuity of dose projection and decision making capability

OPTION 4\*  
One Facility\*\*

- AT OR BEYOND 10
- -5 to 15 miles
  - -Well engineered.
  - NO SPECIFIC protection factor  $\wedge$  10-
  - -If 5 to 10 miles, ventilation isolation and HEPA filters -
  - Strongly recommend location be coordinated with offsite authorities
- IF BEYOND 20 MILES  
SOME PROVISION FOR  
NRC SITE TEAM  
CLOSER TO SITE
- SPECIFIC APPROVAL  
BY THE  
COMMISSION

## \* For all Options:

- Located outside security boundary
- Space for about 10 NRC employees
- None designed for severe phenomena, e.g., earthquakes

\*\* For Options 2 and 4, if in response to this requirement a utility has begun construction of a new building for an EOF that is located within 5 miles, that new facility is acceptable provided that a backup EOF similar to "B" in Option 2 or 3A is provided.

\*\*\* Habitability requirements are only for that part of the EOF in which dose assessments, communications, and decision making take place.