





APPENDIX 19

BROWNS FERRY NUCLEAR PLANT
FINAL SAFETY ANALYSIS REPORT

PLANT TO OFFSITE
COMMUNICATIONS
FIGURE 10.18-2

BFN-16

Figure 10.18-3

Deleted by Amendment 9.

| POSTULATED CONDITIONS | OFFSITE COMMUNICATIONS | | | | | | | | | ONSITE COMMUNICATIONS | | | | | | | | | |
|---|------------------------|----------------------------|--|----------------------------------|--------------|--|------------------------------|---------------------------|----------------------------|--|---------------------------|---------------------------|------------------------------------|------------------------------------|---|---------------------------------|---|-------------------------------|---|
| | NRC ENS PHONES | MICROWAVE RADIO (MW) | | COMMERCIAL TELEPHONE LINES | TPS RADIO | | EMERGENCY RADIO SYSTEM | NSS SHERIFF'S RADIO | OFFSITE RADIO PAGING | NSS1, NSS2 RADIO (NSS2 BACKUP) | ONSITE RADIO PAGING | CELL RADIO (NOTE 5) | INPLANT RADIO SYSTEM (F2) | INPLANT RADIO SYSTEM (F4) | TELEPHONE SYSTEM (NODES 1 2 & 3) | LOUDSPEAKER PAGING SYSTEM | SOUND- POWERED SYSTEM (DCCSPS) | EVACUATION ALARM SYSTEM | CODE CALL (FIRE & MEDICAL EMERGENCY) |
| FIRE IN COMMUNICATION ROOM (TOTAL DESTRUCTION) | | | | | | | | X | | X | | X | X | X | NODES 2 & 3 SURVIVE | | X | | |
| FIRE IN CABLE TUNNEL TO SWITCHYARD | | X | | | | | X | X | X | X | X | | X | X | PARTIAL | X | X | PARTIAL | PARTIAL |
| FIRE IN CONTROL ROOM | PARTIAL | PARTIAL | | PARTIAL | | | X | X | X | X | X | X | X | X | PARTIAL | PARTIAL | PARTIAL | PARTIAL | PARTIAL |
| LOSS OF ALL AC POWER | X | X | | X | X | | | | | NSS2 SURVIVE | | X | X | X | X | | X | | |
| DESIGN BASIS ACCIDENT | X | X | | X | X | | X | X | X | X | X | X | X | X | X | X | X | X | X |
| SAFE SHUTDOWN EARTHQUAKE | | | | | | | | | | HOSTILES & PORTABLES SURVIVE | | SEE NOTE 4 | SEE NOTE 3 | SEE NOTE 3 | | | | | |
| LOSS OF OFFSITE POWER | X | X | | X | | | X | X | X | X | X | X | X | X | X | | X | X | |
| PROBABLE MAXIMUM FLOOD | | X | | | | | X | X | X | X | PARTIAL | X | PARTIAL | X | PARTIAL | | X | PARTIAL | PARTIAL |
| TORNADO (MICROWAVE ANTENNAS & REFLECTORS DESTROYED) | X | | | X | X | | | X | X | X | X | SEE NOTE 4 | X | X | X LOSS OF MW TRUNKS | X | X | X | X |
| FIRE IN TURBINE BUILDING (TOTAL DESTRUCTION) | X | | | X | | | | | | | | SEE NOTE 4 | | X | PARTIAL | PARTIAL | X | PARTIAL | PARTIAL |
| FIRE IN REACTOR BUILDING FIRE ZONE 2-4 | X | X | | X | X | | X | X | X | X | X | X | X | | PARTIAL | X | PARTIAL | PARTIAL | PARTIAL |

NOTES:

1. X IN BLOCK INDICATES SURVIVAL OF THE SERVICE DURING THE POSTULATED CONDITION.
2. PARTIAL IN BLOCK INDICATES PARTIAL AVAILABILITY DUE TO THE LOSS OF THAT PORTION OF THE SYSTEM WHERE THE CONDITION EXISTS. THE SURVIVING EQUIPMENT WILL REMAIN FUNCTIONAL.
3. MOST PORTABLE UNITS WILL SURVIVE AND WILL OPERATE IN SIMPLEX MODE.
4. CELL RADIO WILL OPERATE RADIO TO RADIO ON 900MHZ BAND ONLY.
5. AVAILABLE BUT NOT CREDITED.

AMENDMENT 22

BROWNS FERRY NUCLEAR PLANT
FINAL SAFETY ANALYSIS REPORT

COMMUNICATION EQUIPMENT
AVAILABILITY TABLE

FIGURE 10.18-4

BFN-16

Figures 10.18-5a through 10.18-5b

Deleted by Amendment 9.

BFN-16

Figure 10.18-6

Deleted by Amendment 9.