

Duke Power Company
P.O. Box 3189
Charlotte, NC 28212

7013173-011



DUKE POWER

December 12, 1990

RE: McGuire Nuclear Station
Selected Licensee Conditions

Please revise your copy of the Selected Licensee Commitments manual as follows:

Remove these pages

LOEP 1,6
16.9-12
Table 16.9-3 (6 pages)

Insert these pages

LOEP 1,6
16.9-12
Table 16.9-3 (6 pages)

If you have any questions or problems, I may be contacted at 3-7720.

R.L. Gill, Jr., Technical System Manager
Regulatory Compliance

A handwritten signature in cursive script that reads "Helen Froebe".

By: Helen Froebe
Regulatory Compliance

HAF/haf

McGuire Nuclear Station
Selected Licensee Commitments
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16.9 AUXILIARY SYSTEMS

FIRE PROTECTION SYSTEMS

16.9-6 FIRE DETECTION INSTRUMENTATION

COMMITMENT

As a minimum, the fire detection instrumentation for each fire detection zone shown in Table 16.9-3 shall be OPERABLE.

APPLICABILITY: Whenever equipment protected by the fire detection instrument is required to be OPERABLE.

REMEDIAL ACTION:

- a. With any, but not more than one-half the total in any fire zone, Function A fire detection instruments shown in Table 16.9-3 inoperable, restore the inoperable instrument(s) to OPERABLE status within 14 days or within the next 1 hour establish a fire watch patrol to inspect the zone(s) with the inoperable instrument(s) at least once per hour, unless the instrument(s) is located inside the containment, then inspect that containment zone at least once per 8 hours or monitor the containment air temperature at least once per hour at the locations given in Technical Specification 4.6.1.5.1 or 4.6.1.5.2.
- b. With more than one-half of the Function A fire detection instruments in any fire zone shown in Table 16.9-3 inoperable, or with any Function B fire detection instruments shown in Table 16.9-3 inoperable, or with any two or more adjacent fire detection instruments shown in Table 16.9-3 inoperable, within 1 hour establish a fire watch patrol to inspect the zone(s) with the inoperable instrument(s) at least once per hour, unless the instrument(s) is located inside the containment, then inspect that containment zone at least once per 8 hours or monitor the containment air temperature at least once per hour at the locations given in Technical Specification 4.6.1.5.1 or 4.6.1.5.2. With any Annulus Fire detection instrumentation listed in Table 16.9-3 inoperable do the following:
 - i Within one hour, perform a fire watch patrol of the annulus and,
 - ii Perform the following:
 - 1) Perform an hourly fire watch by verifying that at least one adjacent zone is operable

OR

- 2) If no adjacent zones are operable then perform a fire watch patrol of the annulus at least once per 8 hours, thereafter.

TABLE 16.9-3
FIRE DETECTION INSTRUMENTATION

| DETECTOR ZONE | DESCRIPTION | LOCATION | SMOKE | TOTAL NO. INSTRUMENTS(a) | | |
|------------------|--|----------|---------|--------------------------|-------------|------|
| | | | | HEAT DETECTORS | FUNCTION(b) | |
| 1 | Reactor Coolant Pump 1A | RCP-1A | 0 | 1 | A | |
| 2 | Reactor Coolant Pump 1B | RCP-1B | 0 | 1 | A | |
| 3 | Reactor Coolant Pump 1C | RCP-1C | 0 | 1 | A | |
| 4 | Reactor Coolant Pump 1D | RCP-1D | 0 | 1 | A | |
| 5 | Reactor Coolant Pump 2A | RCP-2A | 0 | 1 | A | |
| 6 | Reactor Coolant Pump 2B | RCP-2B | 0 | 1 | A | |
| 7 | Reactor Coolant Pump 2C | RCP-2C | 0 | 1 | A | |
| 8 | Reactor Coolant Pump 2D | RCP-2D | 0 | 1 | A | |
| 29 | Aux. Bldg. Vent Filter | KK52-53 | EL. 767 | 2 | 0 | A |
| 30 | Elec. Pen. Rm. | CC-51 | EL. 767 | 9 | 0 | A |
| 31 | Elec. Pen. Rm. | CC-51 | EL. 750 | 10 | 0 | A |
| 32 | Elec. Pen. Rm. | CC-51 | EL. 733 | 10 | 0 | A |
| 33 | Unit 2 Aux. Bldg. Vent. Filter | KK-59/60 | EL. 767 | 2 | 0 | A |
| 34 | Unit 2 Elec. Penetration Room | CC-61 | EL. 767 | 9 | 0 | A |
| 35 | Unit 2 Elec. Penetration Room | CC-61 | EL. 750 | 10 | 0 | A |
| 36 | Unit 2 Elec. Penetration Room | CC-61 | EL. 733 | 10 | 0 | A |
| 37 | Diesel Gen. 1A | CC-43 | EL. 733 | 0(0) | 8(4) | A(B) |
| 38 | Diesel Gen. 2A | CC-69 | EL. 733 | 0(0) | 8(4) | A(B) |
| 39 | Cable Room | CC-55 | EL. 750 | 6 | 5 | A |
| 40 | Control Room | CC-56 | EL. 767 | 24 | 19 | A |
| 41 | Swgr. Rm. 1ETA | AA-49 | EL. 750 | 8 | 0 | A |
| 42 | Swgr. Rm. 1ETB | AA-49 | EL. 733 | 10 | 2 | A |
| 43 | SWG. Room 2ETA | AA-62 | EL. 750 | 8 | 0 | A |
| 44 | SWG. Room 2ETB | AA-62 | EL. 733 | 10 | 2 | A |
| 45A | Battery Room EVCA | CC-54 | EL. 733 | 2 | 2 | A |
| 45B | Battery Room EVCB | CC-55 | EL. 733 | 2 | 2 | A |
| 45C | Battery Room EVCC | CC-56 | EL. 733 | 2 | 2 | A |
| 45D | Battery Room EVCD | CC-57 | EL. 733 | 2 | 2 | A |
| 45G | Battery Chg. Equip. & Pnl. EVCA, EVCC | CC-56 | EL. 733 | 9 | 0 | A |

TABLE 16.9-3 (Continued)
FIRE DETECTION INSTRUMENTATION

| DETECTOR ZONE | DESCRIPTION | LOCATION | | TOTAL NO. INSTRUMENTS(a) | | |
|------------------|--|----------|---------|--------------------------|-------------------|-------------|
| | | | | SMOKE | HEAT DETECTORS | FUNCTION(b) |
| 45H | Battery Chg. Equip. & Pnl. EVCB, EVCD | BB-56 | EL. 733 | 6 | 0 | A |
| 50 | Diesel Gen. 1B | BB-43 | EL. 733 | 0(0) | 8(4) | A(B) |
| 51 | Diesel Gen. 2B | BB-69 | EL. 733 | 0(0) | 8(4) | A(B) |
| 52 | Unit 2 Cable Room | CC-57 | EL. 750 | 6 | 5 | A |
| 61 | Cont. Spray Pump 1A/Corridor | GG-55 | EL. 695 | 2 | 2 | A |
| 62 | Cont. Spray Pump 1B/Cooridor | GG-56 | EL. 695 | 2 | 2 | A |
| 63 | RHR Pump 1B | FF-54 | EL. 695 | 1 | 1 | A |
| 64 | RHR Pump 1A | GG-54 | EL. 695 | 1 | 1 | A |
| 66 | Cont. Spray Pump 2B/Corridor | GG-56 | EL. 695 | 2 | 2 | A |
| 67 | Cont. Spray Pump 2A/Cooridor | GG-57 | EL. 695 | 2 | 2 | A |
| 68 | RHR Pump 2A | GG-58 | EL. 695 | 1 | 1 | A |
| 69 | RHR Pump 2B | FF-58 | EL. 695 | 1 | 1 | A |
| 70 | Aux. F. W. Pumps | BB-51 | EL. 716 | 10(0) | 8(1) | A(B) |
| 72 | Mech. Pen. Rm./Cables | JJ-51 | EL. 716 | 4 | 4 | A |
| 73 | Corridor/Cables | HH-53 | EL. 716 | 5 | 5 | A |
| 74 | Sample Panel/Cables | EE-55 | EL. 716 | 5 | 5 | A |
| 75 | Cent. Chg. Pump 1B | JJ-55 | EL. 716 | 2 | 2 | A |
| 76 | Cent. Chg. Pump 1A | JJ-55 | EL. 716 | 2 | 2 | A |
| 77 | P D Pump #1 | JJ-54 | EL. 716 | 2 | 2 | A |
| 78 | Safety Injection Pump 1A | HH-54 | EL. 716 | 2 | 2 | A |
| 79 | Safety Injection Pump 1B | GG-54 | EL. 716 | 2 | 2 | A |
| 80 | Aisle/Cables | GG-55 | EL. 716 | 12 | 12 | A |
| 81 | Aisle/Cables | GG-57 | EL. 716 | 10 | 10 | A |
| 82 | Cent. Chg. Pump 2B | JJ-57 | EL. 716 | 2 | 2 | A |
| 83 | Cent. Chg. Pump 2A | JJ-57 | EL. 716 | 2 | 2 | A |
| 84 | P D Pump #2 | JJ-58 | EL. 716 | 2 | 2 | A |
| 85 | Safety Injection Pump 2A | HH-58 | EL. 716 | 2 | 2 | A |
| 86 | Safety Injection Pump 2B | GG-58 | EL. 716 | 2 | 2 | A |

TABLE 16.9-3 (Continued)
FIRE DETECTION INSTRUMENTATION

| DETECTOR ZONE | DESCRIPTION | LOCATION | | TOTAL NO. INSTRUMENTS(a) | | |
|---------------|-------------------------------|----------|---------|--------------------------|----------------|-------------|
| | | | | SMOKE | HEAT DETECTORS | FUNCTION(b) |
| 87 | Aux. F.W. Pumps | CC-60 | EL. 716 | 10(0) | 8, 1) | A(B) |
| 88 | Mech. Penetration Room/Cables | JJ-61 | EL. 716 | 4 | 4 | A |
| 90 | Corridor/Cables | NN-59 | EL. 716 | 5 | 5 | A |
| 91 | Corridor/Cables | EE-53 | EL. 733 | 4 | 4 | A |
| 92 | Corridor/Cables | JJ-51 | EL. 733 | 6 | 6 | A |
| 93 | Corridor/Cables | NN-52 | EL. 733 | 11 | 11 | A |
| 94 | Aisle/Cables | JJ-55 | EL. 733 | 8 | 8 | A |
| 95 | 600V MCC 1EMXB-1EMXB3 | FF-55 | EL. 733 | 1 | 1 | A |
| 96 | Cable Tray Access | EE-55 | EL. 733 | 1 | 1 | A |
| 97 | Cable Tray Access | EE-57 | EL. 733 | 1 | 1 | A |
| 98 | 600V MCC 2EMXB-2EMXB3 | FF-57 | EL. 733 | 1 | 1 | A |
| 99 | Aisle/Cables | JJ-57 | EL. 733 | 8 | 8 | A |
| 100 | Corridor/Cables | NN-58 | EL. 733 | 12 | 12 | A |
| 101 | Corridor/Cables | JJ-61 | EL. 733 | 6 | 6 | A |
| 102 | Corridor/Cables | EE-59 | EL. 733 | 4 | 4 | A |
| 103 | Corridor/Cables | MM-51 | EL. 750 | 6 | 6 | A |
| 104 | Hatch Area Cables | LL-53 | EL. 750 | 7 | 7 | A |
| 106 | 600V MCC 1EMXA | FF-54 | EL. 750 | 2 | 2 | A |
| 107 | 600V MCC 2EMXA | FF-57 | EL. 750 | 3 | 3 | A |
| 108 | Aisle/Cables | JJ-55 | EL. 750 | 13 | 13 | A |
| 109 | Hatch Area Cables | PP-57 | EL. 750 | 15 | 15 | A |
| 110 | Corridor/Cables | PP-60 | EL. 750 | 8 | 8 | A |
| 111 | Corridor/Cables | LL-59 | EL. 750 | 6 | 6 | A |
| 112 | Aisle/Cables | JJ-57 | EL. 750 | 12 | 12 | A |
| 113 | HVAC Equipment Area/Cables | FF-56 | EL. 767 | 8 | 8 | A |
| 114 | Respiratory Equipment Room | GG-54 | EL. 767 | 1 | 1 | A |
| 115 | Corridor/Cables | JJ-54 | EL. 767 | 13 | 13 | A |
| 116 | HVAC Equipment Area/Cables | NN-52 | EL. 767 | 7 | 7 | A |
| 120 | Environmental Lab | PP-55 | EL. 767 | 1 | 1 | A |
| 122 | HVAC Equipment Area | NN-59 | EL. 767 | 7 | 7 | A |
| 123 | Corridor/Cables | JJ-57 | EL. 767 | 13 | 13 | A |

TABLE 16.9-3 (Continued)
FIRE DETECTION INSTRUMENTATION

| DETECTOR ZONE | DESCRIPTION | LOCATION | SMOKE | TOTAL NO. INSTRUMENTS(a) | | FUNCTION(b) |
|------------------|-------------------------------|------------------|-------|--------------------------|--|-------------|
| | | | | HEAT DETECTORS | | |
| 125 | Fuel Pool Area | NN-62 EL. 778+10 | 18 | 14 | | A |
| 127 | Fuel Pool Area | NN-50 EL. 731+6 | 18 | 14 | | A |
| 128 | Aisle/Cable | EE-57 EL. 716 | 5 | 5 | | A |
| 129 | 600V MCC 2EMXH | KK-56 EL. 733 | 1 | 1 | | A |
| 130 | Cables/KF Pumps | PP-52 EL. 750 | 4 | 4 | | A |
| 131 | Respiratory | HH-56 EL. 767 | 5 | 5 | | A |
| 134 | RB Pipe Corridor - Unit 1 | 215° - 270° | 5 | 0 | | A |
| 135 | RB Pipe Corridor - Unit 1 | 270° - 315° | 5 | 0 | | A |
| 136 | RB Pipe Corridor - Unit 1 | 315° - 0° | 6 | 0 | | A |
| 137 | RB Pipe Corridor - Unit 1 | 0° - 44° | 4 | 0 | | A |
| 138 | RB Pipe Corridor - Unit 1 | 44° - 90° | 4 | 0 | | A |
| 139 | RB Pipe Corridor - Unit 1 | 90° - 126° | 4 | 0 | | A |
| 140 | RB Pipe Corridor - Unit 1 | 126° - 173° | 7 | 0 | | A |
| 141 | RB Below Oper. Floor - Unit 1 | 329° - 349° | 7 | 0 | | A |
| 142 | RB Below Oper. Floor - Unit 1 | 13° - 29° | 4 | 0 | | A |
| 143 | RB Below Oper. Floor - Unit 1 | 34° - 51° | 3 | 0 | | A |
| 144 | RB Below Oper. Floor - Unit 1 | 51° - 124° | 13 | 0 | | A |
| 145 | RB Below Oper. Floor - Unit 1 | 124° - 143° | 3 | 0 | | A |
| 146 | RB Below Oper. Floor - Unit 1 | 143° - 167° | 8 | 0 | | A |
| 147 | RB Below Oper. Floor - Unit 1 | RCP - 1A Motor | 4 | 1 | | A |
| 148 | RB Below Oper. Floor - Unit 1 | RCP - 1B Motor | 1 | 1 | | A |
| 149 | RB Below Oper. Floor - Unit 1 | RCP - 1C Motor | 3 | 1 | | A |
| 150 | RB Below Oper. Floor - Unit 1 | RCP - 1D Motor | 4 | 1 | | A |
| 151 | RB Below Oper. Floor - Unit 1 | Purge Filter Bed | 2 | 2 | | A |
| 152 | RB Below Oper. Floor - Unit 1 | Purge Filter Bed | 2 | 2 | | A |
| c153 | RB Annulus - Unit 1 | 293° - 331° | 10 | 10 | | B |
| c154 | RB Annulus - Unit 1 | 324° - 0° | 4 | 4 | | B |
| c155 | RB Annulus - Unit 1 | 0° - 50° | 5 | 5 | | B |
| c156 | RB Annulus - Unit 1 | 50° - 88° | 4 | 4 | | B |
| c157 | RB Annulus - Unit 1 | 88° - 123° | 24 | 24 | | B |
| c158 | RB Annulus - Unit 1 | 123° - 165° | 22 | 22 | | B |

TABLE 16.9-3 (Continued)
FIRE DETECTION INSTRUMENTATION

| DETECTOR ZONE | DESCRIPTION | LOCATION | SMOKE | TOTAL NO. INSTRUMENTS(a) | | FUNCTION(b) |
|---------------|-----------------------------|------------------|-------|--------------------------|--|-------------|
| | | | | HEAT DETECTORS | | |
| c159 | RB Annulus - Unit 1 | 333° - 16° | 13 | 13 | | B |
| c160 | RB Annulus - Unit 1 | 16° - 54° | 23 | 23 | | B |
| c161 | RB Annulus - Unit 1 | 122° - 180° | 16 | 16 | | B |
| c162 | RB Annulus - Unit 1 | 180° - 256° | 13 | 13 | | B |
| 163 | Unit 2 RB Pipe Corridor | 215° - 270° | 5 | 0 | | A |
| 164 | Unit 2 RB Pipe Corridor | 270° - 315° | 5 | 0 | | A |
| 165 | Unit 2 RB Pipe Corridor | 315° - 0° | 6 | 0 | | A |
| 166 | Unit 2 RB Pipe Corridor | 0° - 44° | 4 | 0 | | A |
| 167 | Unit 2 RB Pipe Corridor | 44° - 90° | 4 | 0 | | A |
| 168 | Unit 2 RB Pipe Corridor | 90° - 126° | 4 | 0 | | A |
| 169 | Unit 2 RB Pipe Corridor | 126° - 173° | 7 | 0 | | A |
| 170 | Unit 2 RB Below Oper. Floor | 329° - 347° | 7 | 0 | | A |
| 171 | Unit 2 RB Below Oper. Floor | 13° - 29° | 4 | 0 | | A |
| 172 | Unit 2 RB Below Oper. Floor | 34° - 51° | 3 | 0 | | A |
| 173 | Unit 2 RB Below Oper. Floor | 51° - 124° | 13 | 0 | | A |
| 174 | Unit 2 RB Below Oper. Floor | 124° - 143° | 3 | 0 | | A |
| 175 | Unit 2 RB Below Oper. Floor | 143° - 167° | 8 | 0 | | A |
| 176 | Unit 2 RB Below Oper. Floor | RCP - 2A Motor | 3 | 1 | | A |
| 177 | Unit 2 RB Below Oper. Floor | RCP - 2B Motor | 2 | 1 | | A |
| 178 | Unit 2 RB Below Oper. Floor | RCP - 2C Motor | 2 | 1 | | A |
| 179 | Unit 2 RB Below Oper. Floor | RCP - 2D Motor | 4 | 1 | | A |
| 180 | Unit 2 RB Below Oper. Floor | Purge Filter Bed | 2 | 2 | | A |
| 181 | Unit 2 RB Below Oper. Floor | Purge Filter Bed | 2 | 2 | | A |
| d182 | Unit 2 RB Annulus | 293° - 331° | 10 | 10 | | B |
| d183 | Unit 2 RB Annulus | 324° - 0° | 4 | 4 | | B |
| d184 | Unit 2 RB Annulus | 0° - 50° | 5 | 5 | | B |
| d185 | Unit 2 RB Annulus | 50° - 88° | 4 | 4 | | B |
| d186 | Unit 2 RB Annulus | 88° - 123° | 24 | 24 | | B |
| d187 | Unit 2 RB Annulus | 123° - 165° | 22 | 22 | | B |
| d188 | Unit 2 RB Annulus | 333° - 16° | 13 | 13 | | B |

TABLE 16.9-3 (Continued)
FIRE DETECTION INSTRUMENTATION

| DETECTOR ZONE | DESCRIPTION | LOCATION | TOTAL NO. INSTRUMENTS(a) | | | FUNCTION(b) |
|---------------|----------------------------|-----------------|--------------------------|----------------|--|-------------|
| | | | SMOKE | HEAT DETECTORS | | |
| d189 | Unit 2 RB Annulus | 16° - 54° | 23 | 23 | | B |
| d190 | Unit 2 RB Annulus | 122° - 180° | 16 | 16 | | B |
| d191 | Unit 2 RB Annulus | 180° - 256° | 13 | 13 | | B |
| 197 | Mech. Pen. Rm./UHI Valves | JJ-52 EL. 750 | 5 | 5 | | A |
| 198 | Mech. Pen. Rm./UHI Valves | JJ-60 EL. 750 | 5 | 5 | | A |
| 206 | Control Room Control Board | AA-56 EL. 767 | 20 | 5 | | A |
| c153A | RB Annulus - Unit 1 | 0°-360° EL. 745 | 0 | e | | B |
| c153B | RB Annulus - Unit 1 | 0°-360° EL. 765 | 0 | e | | B |
| c153C | RB Annulus - Unit 1 | 0°-360° EL. 785 | 0 | e | | B |
| c153D | RB Annulus - Unit 1 | 0°-360° EL. 805 | 0 | e | | B |
| c153E | RB Annulus - Unit 1 | 0°-360° EL. 820 | 0 | e | | B |
| c153F | RB Annulus - Unit 1 | 0°-360° EL. 835 | 0 | e | | B |
| d182A | RB Annulus - Unit 2 | 0°-360° EL. 745 | 0 | e | | B |
| d182B | RB Annulus - Unit 2 | 0°-360° EL. 765 | 0 | e | | B |
| d182C | RB Annulus - Unit 2 | 0°-360° EL. 785 | 0 | e | | B |
| d182D | RB Annulus - Unit 2 | 0°-360° EL. 805 | 0 | e | | B |
| d182E | RB Annulus - Unit 2 | 0°-360° EL. 820 | 0 | e | | B |
| d182F | RB Annulus - Unit 2 | 0°-360° EL. 835 | 0 | e | | B |

(a) The fire detection instruments located within containment are not required to be operable during the performance of Type A Containment Leakage Rate Tests.

(b) Function A: Early warning fire detection and notification only.

Function B: Actuation of fire suppression system and early warning and notification.

(c) Upon implementation of NSM MG-12106/00, zones 153-162 in RB Annulus - Unit 1 will be deleted and zones 153A-153F will be active fire detection instrumentation.

(d) Upon implementation of NSM MG-22106/00, zones 182-191 in RB Annulus - Unit 2 will be deleted and zones 182A-182F will be active fire detection instrumentation.

(e) The fire detection instruments located in the RB Annulus are restorable, cable-type sensors which cover the entire 360° of the annulus at each subzone elevation.