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CNS-17-058

10 CFR 50.54(f)
10 CFR 50.4

December 28, 2017

ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Duke Energy Carolinas, LLC (Duke Energy)
Catawba Nuclear Station (CNS), Units 1 and 2
Docket Numbers 50-413 and 50-414
Renewed License Nos. NPF-35 and NPF-52

Subject: Supplement to the Catawba Nuclear Station High Frequency Supplement to Seismic Hazard Screening Report, Response to NRC Request for Information Pursuant to 10 CFR 50.54(f) Regarding Recommendation 2.1 of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident

References:

1. NRC Letter, Request for Information Pursuant to Title 10 of the Code of Federal Regulations 50.54(f) Regarding Recommendations 2.1, 2.3, and 9.3, of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident, dated March 12, 2012, ADAMS Accession Number ML12053A340
2. Duke Energy letter, Seismic Hazard and Screening Report (CEUS Sites), Response to NRC 10 CFR 50.54(f) Request for Additional Information Pursuant to Title 10 of the Code of Federal Regulations 50.54(f) regarding Recommendations 2.1, 2.3 and 9.3 of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident, dated March 31, 2014, ADAMS Accession Number ML14093A052
3. NRC Letter, Screening and Prioritization Results regarding information pursuant to Title 10 of the Code of Federal Regulations 50.54(f) regarding Seismic Hazard Re-evaluations for Recommendation 2.1 of the Near-Term Task Force Reviews of Insights from the Fukushima Dai-ichi accident, dated May 9, 2014, ADAMS Accession Number ML14111A147
4. Duke Energy letter, Catawba Nuclear Station High Frequency Supplement to Seismic Hazard Screening Report, Response NRC Request for Information Pursuant to 10 CFR 50.54(f) Regarding Recommendation 2.1 of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident, dated August 29, 2017, ADAMS Accession ML17244A269

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On March 12, 2012, the Nuclear Regulatory Commission (NRC) issued a Request for Information per 10 CFR 50.54(f) (Reference 1) to all power reactor licensees. The required response section of Enclosure 1 indicated that licensees should provide a Seismic Hazard Evaluation and Screening Report within 1.5 years from the date of the letter for Central and Eastern United States (CEUS) nuclear power plants.

In response to the 50.54(f) letter, Catawba Nuclear Station (CNS) submitted the reevaluated seismic hazards on March 31, 2014 (Reference 2). By letter dated May 9, 2014, (Reference 3), the NRC transmitted the initial results of the screening and prioritization review of the seismic hazards reevaluation submittal for CNS. As noted in the May 9, 2014, letter, CNS is to conduct limited-scope evaluations (i.e., spent fuel pool, and high frequency).

By letter dated August 29, 2017 (Reference 4), Duke Energy submitted the Seismic High Frequency Confirmation Report for CNS. Within the report, a summary of the high-frequency evaluation conclusion is provided in Table B-1 in Appendix B. As summarized in Table B-1 in Appendix B, 302 of the devices have adequate seismic capacity, and 72 components required resolution following the criteria in Section 4.6 of Electric Power Research Institute (EPRI) report entitled, High Frequency Program: Application Guidance for Functional Confirmation and Fragility Evaluation (EPRI 3002004396). In response to a recent inquiry by NRC, Duke Energy has reevaluated the 72 components that required resolution using Section 4.6 of the EPRI report. During this reevaluation, it was determined that six Pressurizer Power-Operated Relief Valves (PORVs) block valve relays were inadvertently included in Table B-1 in the Reference 4 letter. The Reference 4 report had stated the relays were excluded, but were inadvertently included in Table B-1. The relays have been removed from the updated Table B-1 in the attached enclosure. The reevaluation results shows that the remaining 66 component outliers have been resolved by operator action within existing plant procedures in accordance with Section 4.6.3, Operator Actions, of the EPRI report. The changes are denoted by revision bars and footnotes in the document.

The enclosure to this letter provides an update to Table B-1, Components Identified for High Frequency Confirmation in Appendix B of the Seismic High Frequency Confirmation Report for Catawba showing the results from the reevaluation.

This letter contains no new Regulatory Commitments and no revision to existing Regulatory Commitments.

Should you have any questions regarding this submittal, please contact Cecil A. Fletcher II, Catawba Nuclear Regulatory Affairs Manager, at (803) 701-3622.

I declare under penalty of perjury that the foregoing is true and correct. Executed on December 28, 2017.

Sincerely,



Tom Simril
Vice President, Catawba Nuclear Station

Enclosure: Table B-1: Components Identified for High Frequency Confirmation

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PMPA
NCEMC
ELL (EC2ZF)



B. COMPONENTS IDENTIFIED FOR HIGH FREQUENCY CONFIRMATION

Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|-----------|----------------|----------------------------------|------------------------------|---------------------|-----------|-----------------|---------------------------|------------------|----------------------|--|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 1 | 1 | M-1/C | Contactor | MOV Closing Contactor | Allen-Bradley | 205-NX1 | 1CMTS0028 | Control Cabinet | Auxiliary Building | 543 | GERS | Operator Actions using Existing Procedures |
| 2 | 1 | DA | Process Switch | Speed Switch 98% | Rochester Instrument Systems | ET-1214 | 1DECPA | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 3 | 1 | FA | Control Relay | Speed Switch 98% Auxiliary Relay | Cutler-Hammer | D26MRD70A | 1DECPA | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 4 | 1 | R10A | Control Relay | Shutdown De-Actuation Relay | Cutler-Hammer | D26MRD40A1 | 1DECPA | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 5 | 1 | R9A | Control Relay | Shutdown De-Actuation Relay | Cutler-Hammer | D26MRD40A1 | 1DECPA | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 6 | 1 | SS1-K1 | Process Switch | 200 RPM Auxiliary Relay | Dynalco | SST-2400A | 1DECPA | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 7 | 1 | SS1-K2 | Process Switch | 200 RPM Auxiliary Relay | Dynalco | SST-2400A | 1DECPA | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 8 | 1 | SS2-K3 | Process Switch | 440 RPM Auxiliary Relay | Dynalco | SST-2400A | 1DECPA | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 9 | 1 | SS2-K4 | Process Switch | 440 RPM Auxiliary Relay | Dynalco | SST-2400A | 1DECPA | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 10 | 1 | TD4 | Control Relay | Fail-to-Start Auxiliary Relays | Cutler-Hammer | D87XEL30/D26MRD40A1 | 1DECPA | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 11 | 1 | TD5 | Control Relay | Fail-to-Start Auxiliary Relays | Cutler-Hammer | D87XEL30/D26MRD40A1 | 1DECPA | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 12 | 1 | DA | Process Switch | Speed Switch 98% | Rochester Instrument Systems | ET-1214 | 1DECPB | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|-----------|----------------|----------------------------------|------------------------------|-------------------------|-----------|-----------------|---------------------------|------------------|----------------------|-------------------|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 13 | 1 | FA | Control Relay | Speed Switch 98% Auxiliary Relay | Cutler-Hammer | D26MRD70A | 1DECPB | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 14 | 1 | R10A | Control Relay | Shutdown De-Actuation Relay | Cutler-Hammer | D26MRD40A1 | 1DECPB | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 15 | 1 | R9A | Control Relay | Shutdown De-Actuation Relay | Cutler-Hammer | D26MRD40A1 | 1DECPB | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 16 | 1 | SS1-K1 | Process Switch | 200 RPM Auxiliary Relay | Dynalco | SST-2400A | 1DECPB | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 17 | 1 | SS1-K2 | Process Switch | 200 RPM Auxiliary Relay | Dynalco | SST-2400A | 1DECPB | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 18 | 1 | SS2-K3 | Process Switch | 440 RPM Auxiliary Relay | Dynalco | SST-2400A | 1DECPB | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 19 | 1 | SS2-K4 | Process Switch | 440 RPM Auxiliary Relay | Dynalco | SST-2400A | 1DECPB | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 20 | 1 | TD4 | Control Relay | Fail-to-Start Auxiliary Relays | Cutler-Hammer | D87XEL30/ D26MRD40A1 | 1DECPB | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 21 | 1 | TD5 | Control Relay | Fail-to-Start Auxiliary Relays | Cutler-Hammer | D87XEL30/ D26MRD40A1 | 1DECPB | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 22 | 1 | K307 | Control Relay | High DC Shunt Trip Relay | Tyco (Potter-Brumfield) | CNS 35-96 | 1DGCA | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 23 | 1 | TD301 | Control Relay | High DC Shunt Trip Timer | Ametek (Solidstate Controls) | 07-740110-00 | 1DGCA | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 24 | 1 | K307 | Control Relay | High DC Shunt Trip Relay | Tyco (Potter-Brumfield) | CNS 35-96 | 1DGCB | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 25 | 1 | TD301 | Control Relay | High DC Shunt Trip Timer | Ametek (Solidstate Controls) | 07-740110-00 | 1DGCB | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 26 | 1 | GD(BOA) | Control Relay | Blackout Relay | Cutler-Hammer | D26MRD70A1 | 1DGLSA-1 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|----------------|---------------|--------------------------------|---------------|-------------|-----------|-----------------|---------------------------|------------------|----------------------|-------------------|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 27 | 1 | GE(127ZAX) | Control Relay | Undervoltage Relay Z-Phase | Cutler-Hammer | D26MRD70A1 | 1DGLSA-1 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 28 | 1 | GF(127YAX) | Control Relay | Undervoltage Relay Y-Phase | Cutler-Hammer | D26MRD70A1 | 1DGLSA-1 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 29 | 1 | GG(127XAX) | Control Relay | Undervoltage Relay X-Phase | Cutler-Hammer | D26MRD70A1 | 1DGLSA-1 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 30 | 1 | GH(127XAX/SPL) | Control Relay | Undervoltage Relay /Special | Cutler-Hammer | D26MRD30A1 | 1DGLSA-1 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 31 | 1 | HG(RGA) | Control Relay | Diesel Generator Restart Relay | Cutler-Hammer | D26MRD40A1 | 1DGLSA-1 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 32 | 1 | AA(SAA1) | Control Relay | Sequencer Actuation Relay | Cutler-Hammer | D26MRD704A1 | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 33 | 1 | AE(LT2A) | Control Relay | Logic Timer Relay | Cutler-Hammer | D26MRD704A1 | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 34 | 1 | BE(SAA8) | Control Relay | Sequencer Actuation Relay | Cutler-Hammer | D26MRD704A1 | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 35 | 1 | CD(LSAT) | Control Relay | Load Shed Timer Relay | Cutler-Hammer | D26MRD70A1 | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 36 | 1 | DA(ST1A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PAA | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 37 | 1 | DB(ST2A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PAA | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 38 | 1 | DC(ST3A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PBA | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 39 | 1 | DD(ST4A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PBA | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 40 | 1 | DE(ST5A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PCA | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|-----------|---------------|--------------------------|---------------|-------------|-----------|-----------------|---------------------------|------------------|----------------------|-------------------|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 41 | 1 | DF(ST6A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PCA | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 42 | 1 | DG(ST7A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PDA | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 43 | 1 | DH(ST8A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PDA | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 44 | 1 | DJ(ST9A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PDA | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 45 | 1 | DK(ST10A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PEA | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 46 | 1 | DL(ST11A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PMA | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 47 | 1 | DM(ST12A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PEA | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 48 | 1 | DN(ST13A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PFA | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 49 | 1 | FA(RA1) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD704A1 | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 50 | 1 | FB(RA1A) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD30A1 | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 51 | 1 | FC(RA2) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 52 | 1 | FD(RA3) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 53 | 1 | FE(RA4) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 54 | 1 | FF(RA5) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|---------------|---------------|---------------------------------------|---------------|-------------|-----------|-----------------|---------------------------|------------------|----------------------|-------------------|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 55 | 1 | FG(RA6) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD704A1 | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 56 | 1 | FH(RA7) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 57 | 1 | FJ(RA8) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD704A1 | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 58 | 1 | FK(RA9) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 59 | 1 | GA(RA10) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 60 | 1 | GB(RA11) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 61 | 1 | GC(RA12) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 62 | 1 | GD(RA13) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD704A1 | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 63 | 1 | HA(IESGAX1) | Control Relay | Engineered Safeguards Auxiliary Relay | Cutler-Hammer | D26MRD704A1 | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 64 | 1 | LSA1-4/4a(CA) | Control Relay | Load Shed | Cutler-Hammer | D26MRD704A1 | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 65 | 1 | LSA3-1/1a(CC) | Control Relay | Load Shed | Cutler-Hammer | D26MRD704A1 | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 66 | 1 | LSA3-4/4a(CC) | Control Relay | Load Shed | Cutler-Hammer | D26MRD704A1 | 1DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 67 | 1 | GD(BOB) | Control Relay | Blackout Relay | Cutler-Hammer | D26MRD70A1 | 1DGLSB-1 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 68 | 1 | GE(127ZBX) | Control Relay | Undervoltage Relay Z-Phase | Cutler-Hammer | D26MRD70A1 | 1DGLSB-1 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|----------------|---------------|--------------------------------|---------------|-------------|-----------|-----------------|---------------------------|------------------|----------------------|-------------------|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 69 | 1 | GF(127YBX) | Control Relay | Undervoltage Relay Y-Phase | Cutler-Hammer | D26MRD70A1 | 1DGLSB-1 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 70 | 1 | GG(127XBX) | Control Relay | Undervoltage Relay X-Phase | Cutler-Hammer | D26MRD70A1 | 1DGLSB-1 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 71 | 1 | GH(127XBX/SPL) | Control Relay | Undervoltage Relay /Special | Cutler-Hammer | D26MRD30A1 | 1DGLSB-1 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 72 | 1 | HG(RGB) | Control Relay | Diesel Generator Restart Relay | Cutler-Hammer | D26MRD40A1 | 1DGLSB-1 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 73 | 1 | AA(SAB1) | Control Relay | Sequencer Actuation Relay | Cutler-Hammer | D26MRD704A1 | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 74 | 1 | AE(LT2B) | Control Relay | Logic Timer Relay | Cutler-Hammer | D26MRD704A1 | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 75 | 1 | BE(SAB8) | Control Relay | Sequencer Actuation Relay | Cutler-Hammer | D26MRD704A1 | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 76 | 1 | CD(LSBT) | Control Relay | Load Shed Timer Relay | Cutler-Hammer | D26MRD70A1 | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 77 | 1 | DA(ST1B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PAA | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 78 | 1 | DB(ST2B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PAA | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 79 | 1 | DC(ST3B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PBA | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 80 | 1 | DD(ST4B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PBA | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 81 | 1 | DE(ST5B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PCA | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 82 | 1 | DF(ST6B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PCA | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|-----------|---------------|--------------------------|---------------|-------------|-----------|-----------------|---------------------------|------------------|----------------------|-------------------|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 83 | 1 | DG(ST7B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PDA | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 84 | 1 | DH(ST8B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PDA | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 85 | 1 | DJ(ST9B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PDA | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 86 | 1 | DK(ST10B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PEA | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 87 | 1 | DL(ST11B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PMA | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 88 | 1 | DM(ST12B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PEA | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 89 | 1 | DN(ST13B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PFA | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 90 | 1 | FA(RB1) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD704A1 | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 91 | 1 | FB(RB1A) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD30A1 | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 92 | 1 | FC(RB2) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 93 | 1 | FD(RB3) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 94 | 1 | FE(RB4) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 95 | 1 | FF(RB5) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 96 | 1 | FG(RB6) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD704A1 | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|---------------|---------------|--|---------------|-------------|-----------|------------------|---------------------------|------------------|----------------------|-------------------|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 97 | 1 | FH(RB7) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 98 | 1 | FJ(RB8) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD704A1 | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 99 | 1 | FK(RB9) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 100 | 1 | GA(RB10) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 101 | 1 | GB(RB11) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 102 | 1 | GC(RB12) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 103 | 1 | GD(RB13) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD704A1 | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 104 | 1 | HA(1ESGBX1) | Control Relay | Engineered Safeguards Auxiliary Relay | Cutler-Hammer | D26MRD704A1 | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 105 | 1 | LSB1-4/4a(CA) | Control Relay | Load Shed | Cutler-Hammer | D26MRD704A1 | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 106 | 1 | LSB3-1/1a(CC) | Control Relay | Load Shed | Cutler-Hammer | D26MRD704A1 | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 107 | 1 | LSB3-4/4a(CC) | Control Relay | Load Shed | Cutler-Hammer | D26MRD704A1 | 1DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 108 | 1 | GB(51VX3) | Control Relay | Voltage Controlled Overcurrent Auxiliary Relay | Cutler-Hammer | D26MRD30A1 | 1EATC14 | Terminal Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 109 | 1 | GC(51VX1) | Control Relay | Voltage Controlled Overcurrent Auxiliary Relay | Cutler-Hammer | D26MRD30A1 | 1EATC14 | Terminal Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 110 | 1 | JA(51VX2) | Control Relay | Voltage Controlled Overcurrent Auxiliary Relay | Cutler-Hammer | D26MRD704A1 | 1EATC14 | Terminal Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|-----------|---------------|--|------------------------------|--------------|-----------|------------------|---------------------------|------------------|----------------------|--|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 111 | 1 | GB(51VX3) | Control Relay | Voltage Controlled Overcurrent Auxiliary Relay | Cutler-Hammer | D26MRD30A1 | 1EATC15 | Terminal Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 112 | 1 | GC(51VX1) | Control Relay | Voltage Controlled Overcurrent Auxiliary Relay | Cutler-Hammer | D26MRD30A1 | 1EATC15 | Terminal Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 113 | 1 | JA(51VX2) | Control Relay | Voltage Controlled Overcurrent Auxiliary Relay | Cutler-Hammer | D26MRD704A1 | 1EATC15 | Terminal Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 114 | 1 | AA | Control Relay | Auxiliary Relay | Cutler-Hammer | D23MR40A | 1EATC9 | Terminal Cabinet | Auxiliary Building | 594 | GERS | Operator Actions using Existing Procedures |
| 115 | 1 | AE | Control Relay | Auxiliary Relay | Cutler-Hammer | D23MR40A | 1EATC9 | Terminal Cabinet | Auxiliary Building | 594 | GERS | Operator Actions using Existing Procedures |
| 116 | 1 | CD | Control Relay | Auxiliary Relay | Cutler-Hammer | D23MR40A | 1EATC9 | Terminal Cabinet | Auxiliary Building | 594 | GERS | Operator Actions using Existing Procedures |
| 117 | 1 | DD | Control Relay | Auxiliary Relay | Cutler-Hammer | D23MR40A | 1EATC9 | Terminal Cabinet | Auxiliary Building | 594 | GERS | Operator Actions using Existing Procedures |
| 118 | 1 | K301 | Control Relay | High DC Shunt Trip Relay | Ametek (Solidstate Controls) | 07-740131-00 | 1ECA | Control Cabinet | Auxiliary Building | 554 | Catawba Report | Operator Actions using Existing Procedures |
| 119 | 1 | K301 | Control Relay | High DC Shunt Trip Relay | Ametek (Solidstate Controls) | 07-740131-00 | 1ECB | Control Cabinet | Auxiliary Building | 554 | Catawba Report | Operator Actions using Existing Procedures |
| 120 | 1 | K301 | Control Relay | High DC Shunt Trip Relay | Ametek (Solidstate Controls) | 07-740131-00 | 1ECC | Control Cabinet | Auxiliary Building | 554 | Catawba Report | Operator Actions using Existing Procedures |
| 121 | 1 | K301 | Control Relay | High DC Shunt Trip Relay | Ametek (Solidstate Controls) | 07-740131-00 | 1ECD | Control Cabinet | Auxiliary Building | 554 | Catawba Report | Operator Actions using Existing Procedures |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|-------------|----------------|---------------------------------|-------------------|------------------------------|-----------|-----------------|---------------------------|------------------|----------------------|--|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 122 | 1 | CON1 | Contactora | Overspeed Trip Auxiliary Relay | Allen-Bradley | 202-NX11 | 1ELCP0245 | Control Cabinet | Auxiliary Building | 543 | GERS | Operator Actions using Existing Procedures |
| 123 | 1 | CR3 | Control Relay | Overspeed Trip Relay | Agastat (or Tyco) | EGPD-003 or -004 (1423176-6) | 1ELCP0245 | Control Cabinet | Auxiliary Building | 543 | EPRI HF Test | Cap>Dem |
| 124 | 1 | CR4 | Control Relay | Mechanical Overspeed Trip Relay | Agastat (or Tyco) | EGPD-003 or -004 (1423176-6) | 1ELCP0245 | Control Cabinet | Auxiliary Building | 543 | EPRI HF Test | Cap>Dem |
| 125 | 1 | HB | Control Relay | Non-Emergency Trip Relay | Cutler-Hammer | D26MRD30A1 | 1ELCP0328 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 126 | 1 | JB | Control Relay | Lo-Lo Lube Oil Trip Relay | Cutler-Hammer | D26MRD30A | 1ELCP0328 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 127 | 1 | JC | Control Relay | Shutdown Cycle Seal-In Timer | Agastat | E7012PELL004 | 1ELCP0328 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 128 | 1 | R1(DA/SST1) | Process Switch | Overspeed Relay | Dynalco | SST-2400 | 1ELCP0328 | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 129 | 1 | R1(DB/SST2) | Process Switch | Overspeed Relay | Dynalco | SST-2400 | 1ELCP0328 | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 130 | 1 | R3(DA/SST1) | Process Switch | Overspeed Relay | Dynalco | SST-2400 | 1ELCP0328 | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 131 | 1 | R3(DB/SST2) | Process Switch | Overspeed Relay | Dynalco | SST-2400 | 1ELCP0328 | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 132 | 1 | HB | Control Relay | Non-Emergency Trip Relay | Cutler-Hammer | D26MRD30A1 | 1ELCP0329 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 133 | 1 | JB | Control Relay | Lo-Lo Lube Oil Trip Relay | Cutler-Hammer | D26MRD30A | 1ELCP0329 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 134 | 1 | JC | Control Relay | Shutdown Cycle Seal-In Timer | Agastat | E7012PELL004 | 1ELCP0329 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|----------------|--------------------|--------------------------------|--------------|----------------|-----------|-----------------|---------------------------|------------------|----------------------|-------------------|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 135 | 1 | R1(DA/SST1) | Process Switch | Overspeed Relay | Dynalco | SST-2400 | 1ELCP0329 | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 136 | 1 | R1(DB/SST2) | Process Switch | Overspeed Relay | Dynalco | SST-2400 | 1ELCP0329 | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 137 | 1 | R3(DA/SST1) | Process Switch | Overspeed Relay | Dynalco | SST-2400 | 1ELCP0329 | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 138 | 1 | R3(DB/SST2) | Process Switch | Overspeed Relay | Dynalco | SST-2400 | 1ELCP0329 | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 139 | 1 | TM1(1CAST5762) | Process Switch | Overspeed Trip Switch | Dynalco | SST-2400AN-173 | 1ELCP0334 | Control Cabinet | Auxiliary Building | 543 | Catawba Report | Cap>Dem |
| 140 | 1 | 52@1ELXA-04B | LV Circuit Breaker | Normal Incoming Feeder Breaker | ABB | K2000-S | 1ELXA | Load Center | Auxiliary Building | 577 | Catawba Report | Cap>Dem |
| 141 | 1 | 52@1ELXA-04C | LV Circuit Breaker | 1EMXA Feeder Breaker | ABB | K1600-S | 1ELXA | Load Center | Auxiliary Building | 577 | Catawba Report | Cap>Dem |
| 142 | 1 | 52@1ELXA-06C | LV Circuit Breaker | 1EMXE Feeder Breaker | ABB | K1600-S | 1ELXA | Load Center | Auxiliary Building | 577 | Catawba Report | Cap>Dem |
| 143 | 1 | 52@1ELXB-04B | LV Circuit Breaker | Normal Incoming Feeder Breaker | ABB | K2000-S | 1ELXB | Load Center | Auxiliary Building | 560 | Catawba Report | Cap>Dem |
| 144 | 1 | 52@1ELXB-04C | LV Circuit Breaker | 1EMXB Feeder Breaker | ABB | K1600-S | 1ELXB | Load Center | Auxiliary Building | 560 | Catawba Report | Cap>Dem |
| 145 | 1 | 52@1ELXB-06C | LV Circuit Breaker | 1EMXF Feeder Breaker | ABB | K1600-S | 1ELXB | Load Center | Auxiliary Building | 560 | Catawba Report | Cap>Dem |
| 146 | 1 | 52@1ELXC-04B | LV Circuit Breaker | Normal Incoming Feeder Breaker | ABB | K2000-S | 1ELXC | Load Center | Auxiliary Building | 577 | Catawba Report | Cap>Dem |
| 147 | 1 | 52@1ELXC-04C | LV Circuit Breaker | 1EMXI Feeder Breaker | ABB | K1600-S | 1ELXC | Load Center | Auxiliary Building | 577 | Catawba Report | Cap>Dem |
| 148 | 1 | 52@1ELXD-04B | LV Circuit Breaker | Normal Incoming Feeder Breaker | ABB | K2000-S | 1ELXD | Load Center | Auxiliary Building | 560 | Catawba Report | Cap>Dem |
| 149 | 1 | 52@1ELXD-04C | LV Circuit Breaker | 1EMXJ Feeder Breaker | ABB | K1600-S | 1ELXD | Load Center | Auxiliary Building | 560 | Catawba Report | Cap>Dem |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|------------------|------|----------------|-----------|-----------------------|--------------|--|-----------|------|----------------------------------|------------------|----------------------|--|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 150 | 1 | M/C@1EMXB-R03C | Contactor | MOV Closing Contactor | Clark | T13U031-76 Contactor/KTM-10 or A77-463967A-1 Auxiliary Contacts | 1EMXB | MCC | Auxiliary Building | 556 | GERS | Operator Actions using Existing Procedures |
| 154 ^v | 1 | M/C@1EMXE-F01C | Contactor | Closing Contactor | Clark | T13U031-76 Contactor/KTM-10 or A77-463967A-1 Auxiliary Contacts | 1EMXE | MCC | Diesel Generator Building | 556 | GERS | Operator Actions using Existing Procedures |
| 155 | 1 | M/C@1EMXF-F01C | Contactor | Closing Contactor | Clark | T13U031-76 Contactor/KTM-10 or A77-463967A-1 Auxiliary Contacts | 1EMXF | MCC | Diesel Generator Building | 556 | GERS | Operator Actions using Existing Procedures |
| 156 | 1 | M/C@1EMXK-F08B | Contactor | Closing Contactor | Clark | T13U031-76 Contactor/KTM-10 or A77-463967A-1 Auxiliary Contacts | 1EMXK | MCC | Auxiliary Building | 577 | GERS | Operator Actions using Existing Procedures |
| 157 | 1 | M/C@1EMXL-F08A | Contactor | MOV Closing Contactor | Clark | T13U031-76 Contactor/KTM-10 or A77-463967A-1 Auxiliary Contacts | 1EMXL | MCC | Auxiliary Building | 556 | GERS | Operator Actions using Existing Procedures |
| 158 | 1 | M/O@1EMXL-F01B | Contactor | Opening Contactor | Clark | T13U031-76 Contactor/KTM-10 or A77-463967A-1 Auxiliary Contacts | 1EMXL | MCC | Auxiliary Building | 556 | GERS | Operator Actions using Existing Procedures |
| 159 | 1 | M/C@1EMXO-F01B | Contactor | Closing Contactor | Clark | T13U031-76 Contactor/KTM-10 or A77-463967A-1 Auxiliary Contacts | 1EMXO | MCC | Nuclear Service Water Pump House | 600 | GERS | Operator Actions using Existing Procedures |
| 160 | 1 | M/C@1EMXO-F01D | Contactor | Closing Contactor | Clark | T13U031-76 Contactor/KTM-10 or A77-463967A-1 Auxiliary Contacts | 1EMXO | MCC | Nuclear Service Water Pump House | 600 | GERS | Operator Actions using Existing Procedures |
| 161 | 1 | M/C@1EMXS-F04A | Contactor | Closing Contactor | Clark | T13U031-76 Contactor/KTM-10 or A77-463967A-1 Auxiliary Contacts | 1EMXS | MCC | Auxiliary Building | 577 | GERS | Operator Actions using Existing Procedures |

^v Item numbers 151 through 153 have been removed from the list of components identified.



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|----------------|--------------------|---|--------------|---|-----------|------------|--------------------|------------------|----------------------|--|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 162 | 1 | M/O@1EMXS-F01D | Contactora | Opening Contactora | Clark | T13U031-76 Contactora/KTM-10 or A77-463967A-1 Auxiliary Contactsa | 1EMXS | MCC | Auxiliary Building | 577 | GERS | Operator Actions using Existing Procedures |
| 163 | 1 | M/O@1EMXS-F02B | Contactora | Opening Contactora | Clark | T13U031-76 Contactora/KTM-10 or A77-463967A-1 Auxiliary Contactsa | 1EMXS | MCC | Auxiliary Building | 577 | GERS | Operator Actions using Existing Procedures |
| 164 | 1 | M/O@1EMXS-F06A | Contactora | Opening Contactora | Clark | T13U031-76 Contactora/KTM-10 or A77-463967A-1 Auxiliary Contactsa | 1EMXS | MCC | Auxiliary Building | 577 | GERS | Operator Actions using Existing Procedures |
| 165 | 1 | M/O@1EMXS-F06B | Contactora | Opening Contactora | Clark | T13U031-76 Contactora/KTM-10 or A77-463967A-1 Auxiliary Contactsa | 1EMXS | MCC | Auxiliary Building | 577 | GERS | Operator Actions using Existing Procedures |
| 166 | 1 | M/O@1EMXS-F06C | Contactora | Opening Contactora | Clark | T13U031-76 Contactora/KTM-10 or A77-463967A-1 Auxiliary Contactsa | 1EMXS | MCC | Auxiliary Building | 577 | GERS | Operator Actions using Existing Procedures |
| 167 | 1 | 52@1ETA05 | MV Circuit Breaker | Feed to 1ETXA | ABB | 5HK-250, 1200A | 1ETA | Switchgear | Auxiliary Building | 577 | EPRI HF Test | Cap>Dem |
| 168 | 1 | 52@1ETA14 | MV Circuit Breaker | RN1PA Breaker | ABB | 5HK-250, 1200A | 1ETA | Switchgear | Auxiliary Building | 577 | EPRI HF Test | Cap>Dem |
| 169 | 1 | 52@1ETA16 | MV Circuit Breaker | Feed to 1ETXC | ABB | 5HK-250, 1200A | 1ETA | Switchgear | Auxiliary Building | 577 | EPRI HF Test | Cap>Dem |
| 170 | 1 | 52@1ETA18 | MV Circuit Breaker | Diesel Generator 1A Output Breaker | ABB | 5HK-250, 1200A | 1ETA | Switchgear | Auxiliary Building | 577 | EPRI HF Test | Cap>Dem |
| 171 | 1 | 52S(AF)@1ETA03 | MV Circuit Breaker | Normal Feeder Breaker | ABB | 700038-K01 or 700038-K51 | 1ETA | Switchgear | Auxiliary Building | 577 | EPRI HF Test | Cap>Dem |
| 172 | 1 | 52S(AF)@1ETA04 | MV Circuit Breaker | Standby Feeder Breaker | ABB | 700038-K01 or 700038-K51 | 1ETA | Switchgear | Auxiliary Building | 577 | EPRI HF Test | Cap>Dem |
| 173 | 1 | PA(51V)@1ETA18 | Protective Relay | Voltage Controlled Overcurrent Protection Relay | Westinghouse | COV-8 (1876244) | 1ETA | Switchgear | Auxiliary Building | 577 | SQRSTS | Operator Actions using Existing Procedures |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|-----------------|--------------------|---|------------------|--------------------------|-----------|------------|--------------------|------------------|----------------------|--|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 174 | 1 | PB(51V)@1ETA18 | Protective Relay | Voltage Controlled Overcurrent Protection Relay | Westinghouse | COV-8 (1876244) | 1ETA | Switchgear | Auxiliary Building | 577 | SQRSTS | Operator Actions using Existing Procedures |
| 175 | 1 | PC(51V)@1ETA18 | Protective Relay | Voltage Controlled Overcurrent Protection Relay | Westinghouse | COV-8 (1876244) | 1ETA | Switchgear | Auxiliary Building | 577 | SQRSTS | Operator Actions using Existing Procedures |
| 176 | 1 | PD(62B)@1ETA03 | Control Relay | Breaker Failure Timer | General Electric | SAM (12SAM11A21A-S) | 1ETA | Switchgear | Auxiliary Building | 577 | GERS | Operator Actions using Existing Procedures |
| 177 | 1 | 52@1ETB05 | MV Circuit Breaker | Feed to 1ETXB | ABB | 5HK-250, 1200A | 1ETB | Switchgear | Auxiliary Building | 560 | EPRI HF Test | Cap>Dem |
| 178 | 1 | 52@1ETB14 | MV Circuit Breaker | RN1PB Breaker | ABB | 5HK-250, 1200A | 1ETB | Switchgear | Auxiliary Building | 560 | EPRI HF Test | Cap>Dem |
| 179 | 1 | 52@1ETB16 | MV Circuit Breaker | Feed to 1ETXD | ABB | 5HK-250, 1200A | 1ETB | Switchgear | Auxiliary Building | 560 | EPRI HF Test | Cap>Dem |
| 180 | 1 | 52@1ETB18 | MV Circuit Breaker | Diesel Generator 1B Output Breaker | ABB | 5HK-250, 1200A | 1ETB | Switchgear | Auxiliary Building | 560 | EPRI HF Test | Cap>Dem |
| 181 | 1 | 52S(AF)@1ETB03 | MV Circuit Breaker | Normal Feeder Breaker | ABB | 700038-K01 or 700038-K51 | 1ETB | Switchgear | Auxiliary Building | 560 | EPRI HF Test | Cap>Dem |
| 182 | 1 | 52S(AF)@1ETB04 | MV Circuit Breaker | Standby Feeder Breaker | ABB | 700038-K01 or 700038-K51 | 1ETB | Switchgear | Auxiliary Building | 560 | EPRI HF Test | Cap>Dem |
| 183 | 1 | PA (51V)@1ETB18 | Protective Relay | Voltage Controlled Overcurrent Protection Relay | Westinghouse | COV-8 (1876244) | 1ETB | Switchgear | Auxiliary Building | 560 | SQRSTS | Operator Actions using Existing Procedures |
| 184 | 1 | PB (51V)@1ETB18 | Protective Relay | Voltage Controlled Overcurrent Protection Relay | Westinghouse | COV-8 (1876244) | 1ETB | Switchgear | Auxiliary Building | 560 | SQRSTS | Operator Actions using Existing Procedures |
| 185 | 1 | PC (51V)@1ETB18 | Protective Relay | Voltage Controlled Overcurrent Protection Relay | Westinghouse | COV-8 (1876244) | 1ETB | Switchgear | Auxiliary Building | 560 | SQRSTS | Operator Actions using Existing Procedures |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|----------------|----------------|----------------------------------|------------------------------|---|-----------|-----------------|---------------------------|------------------|----------------------|--|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 186 | 1 | PD(62B)@1ETB03 | Control Relay | Breaker Failure Timer | General Electric | SAM (12SAM11A21A-S) | 1ETB | Switchgear | Auxiliary Building | 560 | GERS | Operator Actions using Existing Procedures |
| 187 | 1 | M/C@1MXW-F04D | Contactor | Closing Contactor | Clark | T13U031-76 Contactor/KTM-10 or A77-463967A-1 Auxiliary Contacts | 1MXW | MCC | Turbine Building | 568 | GERS | Operator Actions using Existing Procedures |
| 188 | 2 | M-1/C | Contactor | MOV Closing Contactor | Allen-Bradley | 205-NX1 | 2CMTS0028 | Control Cabinet | Auxiliary Building | 543 | GERS | Operator Actions using Existing Procedures |
| 189 | 2 | DA | Process Switch | Speed Switch 98% | Rochester Instrument Systems | ET-1214 | 2DECPA | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 190 | 2 | FA | Control Relay | Speed Switch 98% Auxiliary Relay | Cutler-Hammer | D26MRD70A | 2DECPA | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 191 | 2 | R10A | Control Relay | Shutdown De-Actuation Relay | Cutler-Hammer | D26MRD40A1 | 2DECPA | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 192 | 2 | R9A | Control Relay | Shutdown De-Actuation Relay | Cutler-Hammer | D26MRD40A1 | 2DECPA | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 193 | 2 | SS1-K1 | Process Switch | 200 RPM Auxiliary Relay | Dynalco | SST-2400A | 2DECPA | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 194 | 2 | SS1-K2 | Process Switch | 200 RPM Auxiliary Relay | Dynalco | SST-2400A | 2DECPA | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 195 | 2 | SS2-K3 | Process Switch | 440 RPM Auxiliary Relay | Dynalco | SST-2400A | 2DECPA | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 196 | 2 | SS2-K4 | Process Switch | 440 RPM Auxiliary Relay | Dynalco | SST-2400A | 2DECPA | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 197 | 2 | TD4 | Control Relay | Fail-to-Start Auxiliary Relays | Cutler-Hammer | D87XEL30/D26MRD40A1 | 2DECPA | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 198 | 2 | TD5 | Control Relay | Fail-to-Start Auxiliary Relays | Cutler-Hammer | D87XEL30/D26MRD40A1 | 2DECPA | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|-----------|----------------|----------------------------------|------------------------------|---------------------|-----------|-----------------|---------------------------|------------------|----------------------|-------------------|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 199 | 2 | DA | Process Switch | Speed Switch 98% | Rochester Instrument Systems | ET-1214 | 2DECPB | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 200 | 2 | FA | Control Relay | Speed Switch 98% Auxiliary Relay | Cutler-Hammer | D26MRD70A | 2DECPB | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 201 | 2 | R10A | Control Relay | Shutdown De-Actuation Relay | Cutler-Hammer | D26MRD40A1 | 2DECPB | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 202 | 2 | R9A | Control Relay | Shutdown De-Actuation Relay | Cutler-Hammer | D26MRD40A1 | 2DECPB | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 203 | 2 | SS1-K1 | Process Switch | 200 RPM Auxiliary Relay | Dynalco | SST-2400A | 2DECPB | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 204 | 2 | SS1-K2 | Process Switch | 200 RPM Auxiliary Relay | Dynalco | SST-2400A | 2DECPB | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 205 | 2 | SS2-K3 | Process Switch | 440 RPM Auxiliary Relay | Dynalco | SST-2400A | 2DECPB | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 206 | 2 | SS2-K4 | Process Switch | 440 RPM Auxiliary Relay | Dynalco | SST-2400A | 2DECPB | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 207 | 2 | TD4 | Control Relay | Fail-to-Start Auxiliary Relays | Cutler-Hammer | D87XEL30/D26MRD40A1 | 2DECPB | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 208 | 2 | TD5 | Control Relay | Fail-to-Start Auxiliary Relays | Cutler-Hammer | D87XEL30/D26MRD40A1 | 2DECPB | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 209 | 2 | K307 | Control Relay | High DC Shunt Trip Relay | Tyco (Potter-Brumfield) | CNS 35-96 | 2DGCA | Control Cabinet | Diesel Generator Building | 560 | GERS | Cap>Dem |
| 210 | 2 | TD301 | Control Relay | High DC Shunt Trip Timer | Ametek (Solidstate Controls) | 07-740110-00 | 2DGCA | Control Cabinet | Diesel Generator Building | 560 | Catawba Report | Cap>Dem |
| 211 | 2 | K307 | Control Relay | High DC Shunt Trip Relay | Tyco (Potter-Brumfield) | CNS 35-96 | 2DGCB | Control Cabinet | Diesel Generator Building | 560 | GERS | Cap>Dem |
| 212 | 2 | TD301 | Control Relay | High DC Shunt Trip Timer | Ametek (Solidstate Controls) | 07-740110-00 | 2DGCB | Control Cabinet | Diesel Generator Building | 560 | Catawba Report | Cap>Dem |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|----------------|---------------|--------------------------------|---------------|-------------|-----------|-----------------|---------------------------|------------------|----------------------|-------------------|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 213 | 2 | GD(BOA) | Control Relay | Blackout Relay | Cutler-Hammer | D26MRD70A1 | 2DGLSA-1 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 214 | 2 | GE(127ZAX) | Control Relay | Undervoltage Relay Z-Phase | Cutler-Hammer | D26MRD70A1 | 2DGLSA-1 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 215 | 2 | GF(127YAX) | Control Relay | Undervoltage Relay Y-Phase | Cutler-Hammer | D26MRD70A1 | 2DGLSA-1 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 216 | 2 | GG(127XAX) | Control Relay | Undervoltage Relay X-Phase | Cutler-Hammer | D26MRD70A1 | 2DGLSA-1 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 217 | 2 | GH(127XAX/SPL) | Control Relay | Undervoltage Relay /Special | Cutler-Hammer | D26MRD30A1 | 2DGLSA-1 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 218 | 2 | HG(RGA) | Control Relay | Diesel Generator Restart Relay | Cutler-Hammer | D26MRD40A1 | 2DGLSA-1 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 219 | 2 | AA(SAA1) | Control Relay | Sequencer Actuation Relay | Cutler-Hammer | D26MRD704A1 | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 220 | 2 | AE(LT2A) | Control Relay | Logic Timer | Cutler-Hammer | D26MRD704A1 | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 221 | 2 | BE(SAA8) | Control Relay | Sequencer Actuation Relay | Cutler-Hammer | D26MRD704A1 | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 222 | 2 | CD(LSAT) | Control Relay | Load Shed Timer | Cutler-Hammer | D26MRD70A1 | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 223 | 2 | DA(ST1A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PAA | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 224 | 2 | DB(ST2A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PAA | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 225 | 2 | DC(ST3A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PBA | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 226 | 2 | DD(ST4A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PBA | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|-----------|---------------|--------------------------|---------------|-------------|-----------|-----------------|---------------------------|------------------|----------------------|-------------------|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 227 | 2 | DE(ST5A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PCA | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 228 | 2 | DF(ST6A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PCA | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 229 | 2 | DG(ST7A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PDA | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 230 | 2 | DH(ST8A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PDA | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 231 | 2 | DJ(ST9A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PDA | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 232 | 2 | DK(ST10A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PEA | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 233 | 2 | DL(ST11A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PMA | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 234 | 2 | DM(ST12A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PEA | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 235 | 2 | DN(ST13A) | Control Relay | Committed Sequence Timer | Agastat | SSC12PFA | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 236 | 2 | FA(RA1) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD704A1 | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 237 | 2 | FA(RA1A) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD30A1 | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 238 | 2 | FC(RA2) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 239 | 2 | FD(RA3) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 240 | 2 | FE(RA4) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|---------------|---------------|---------------------------------------|---------------|-------------|-----------|-----------------|---------------------------|------------------|----------------------|-------------------|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 241 | 2 | FF(RA5) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 242 | 2 | FG(RA6) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD704A1 | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 243 | 2 | FH(RA7) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 244 | 2 | FJ(RA8) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD704A1 | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 245 | 2 | FK(RA9) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 246 | 2 | GA(RA10) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 247 | 2 | GB(RA11) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 248 | 2 | GC(RA12) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 249 | 2 | GD(RA13) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD704A1 | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 250 | 2 | HA(2ESGAX1) | Control Relay | Engineered Safeguards Auxiliary Relay | Cutler-Hammer | D26MRD704A1 | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 251 | 2 | LSA1-4/4a(CA) | Control Relay | Load Shed | Cutler-Hammer | D26MRD704A1 | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 252 | 2 | LSA3-1/1a(CC) | Control Relay | Load Shed | Cutler-Hammer | D26MRD704A1 | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 253 | 2 | LSA3-4/4a(CC) | Control Relay | Load Shed | Cutler-Hammer | D26MRD704A1 | 2DGLSA-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 254 | 2 | GD(BOB) | Control Relay | Blackout Relay | Cutler-Hammer | D26MRD70A1 | 2DGLSB-1 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|----------------|---------------|--------------------------------|---------------|-------------|-----------|-----------------|---------------------------|------------------|----------------------|-------------------|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 255 | 2 | GE(127ZBX) | Control Relay | Undervoltage Relay Z-Phase | Cutler-Hammer | D26MRD70A1 | 2DGLSB-1 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 256 | 2 | GF(127YBX) | Control Relay | Undervoltage Relay Y-Phase | Cutler-Hammer | D26MRD70A1 | 2DGLSB-1 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 257 | 2 | GG(127XBX) | Control Relay | Undervoltage Relay X-Phase | Cutler-Hammer | D26MRD70A1 | 2DGLSB-1 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 258 | 2 | GH(127XBX/SPL) | Control Relay | Undervoltage Relay /Special | Cutler-Hammer | D26MRD30A1 | 2DGLSB-1 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 259 | 2 | HG(RGB) | Control Relay | Diesel Generator Restart Relay | Cutler-Hammer | D26MRD40A1 | 2DGLSB-1 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 260 | 2 | AA(SAB1) | Control Relay | Sequencer Actuation Relay | Cutler-Hammer | D26MRD704A1 | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 261 | 2 | AE(LT2B) | Control Relay | Logic Timer | Cutler-Hammer | D26MRD704A1 | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 262 | 2 | BE(SAB8) | Control Relay | Sequencer Actuation Relay | Cutler-Hammer | D26MRD704A1 | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 263 | 2 | CD(LSBT) | Control Relay | Load Shed Timer | Cutler-Hammer | D26MRD70A1 | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 264 | 2 | DA(ST1B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PAA | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 265 | 2 | DB(ST2B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PAA | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 266 | 2 | DC(ST3B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PBA | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 267 | 2 | DD(ST4B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PBA | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 268 | 2 | DE(ST5B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PCA | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|-----------|---------------|--------------------------|---------------|-------------|-----------|-----------------|---------------------------|------------------|----------------------|-------------------|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 269 | 2 | DF(ST6B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PCA | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 270 | 2 | DG(ST7B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PDA | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 271 | 2 | DH(ST8B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PDA | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 272 | 2 | DJ(ST9B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PDA | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 273 | 2 | DK(ST10B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PEA | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 274 | 2 | DL(ST11B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PMA | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 275 | 2 | DM(ST12B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PEA | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 276 | 2 | DN(ST13B) | Control Relay | Committed Sequence Timer | Agastat | SSC12PFA | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 277 | 2 | FA(RB1) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD704A1 | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 278 | 2 | FB(RB1A) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD30A1 | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 279 | 2 | FC(RB2) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 280 | 2 | FD(RB3) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 281 | 2 | FE(RB4) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 282 | 2 | FF(RB5) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|---------------|---------------|--|---------------|-------------|-----------|------------------|---------------------------|------------------|----------------------|-------------------|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 283 | 2 | FG(RB6) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD704A1 | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 284 | 2 | FH(RB7) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 285 | 2 | FJ(RB8) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD704A1 | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 286 | 2 | FK(RB9) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 287 | 2 | GA(RB10) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 288 | 2 | GB(RB11) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 289 | 2 | GC(RB12) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD70A1 | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 290 | 2 | GD(RB13) | Control Relay | Loading Relay | Cutler-Hammer | D26MRD704A1 | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 291 | 2 | HA(2ESGBX1) | Control Relay | Engineered Safeguards Auxiliary Relay | Cutler-Hammer | D26MRD704A1 | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 292 | 2 | LSB1-4/4a(CA) | Control Relay | Load Shed | Cutler-Hammer | D26MRD704A1 | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 293 | 2 | LSB3-1/1a(CC) | Control Relay | Load Shed | Cutler-Hammer | D26MRD704A1 | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 294 | 2 | LSB3-4/4a(CC) | Control Relay | Load Shed | Cutler-Hammer | D26MRD704A1 | 2DGLSB-2 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 295 | 2 | GB(51VX3) | Control Relay | Voltage Controlled Overcurrent Auxiliary Relay | Cutler-Hammer | D26MRD30A1 | 2EATC14 | Terminal Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 296 | 2 | GC(51VX1) | Control Relay | Voltage Controlled Overcurrent Auxiliary Relay | Cutler-Hammer | D26MRD30A1 | 2EATC14 | Terminal Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|-----------|---------------|--|------------------------------|--------------|-----------|------------------|---------------------------|------------------|----------------------|--|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 297 | 2 | JA(51VX2) | Control Relay | Voltage Controlled Overcurrent Auxiliary Relay | Cutler-Hammer | D26MRD704A1 | 2EATC14 | Terminal Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 298 | 2 | GB(51VX3) | Control Relay | Voltage Controlled Overcurrent Auxiliary Relay | Cutler-Hammer | D26MRD30A1 | 2EATC15 | Terminal Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 299 | 2 | GC(51VX1) | Control Relay | Voltage Controlled Overcurrent Auxiliary Relay | Cutler-Hammer | D26MRD30A1 | 2EATC15 | Terminal Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 300 | 2 | JA(51VX2) | Control Relay | Voltage Controlled Overcurrent Auxiliary Relay | Cutler-Hammer | D26MRD704A1 | 2EATC15 | Terminal Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 301 | 2 | AA | Control Relay | Auxiliary Relay | Cutler-Hammer | D23MR40A | 2EATC9 | Terminal Cabinet | Auxiliary Building | 594 | GERS | Operator Actions using Existing Procedures |
| 302 | 2 | AE | Control Relay | Auxiliary Relay | Cutler-Hammer | D23MR40A | 2EATC9 | Terminal Cabinet | Auxiliary Building | 594 | GERS | Operator Actions using Existing Procedures |
| 303 | 2 | CD | Control Relay | Auxiliary Relay | Cutler-Hammer | D23MR40A | 2EATC9 | Terminal Cabinet | Auxiliary Building | 594 | GERS | Operator Actions using Existing Procedures |
| 304 | 2 | DD | Control Relay | Auxiliary Relay | Cutler-Hammer | D23MR40A | 2EATC9 | Terminal Cabinet | Auxiliary Building | 594 | GERS | Operator Actions using Existing Procedures |
| 305 | 2 | K301 | Control Relay | High DC Shunt Trip Relay | Ametek (Solidstate Controls) | 07-740131-00 | 2ECA | Control Cabinet | Auxiliary Building | 554 | Catawba Report | Operator Actions using Existing Procedures |
| 306 | 2 | K301 | Control Relay | High DC Shunt Trip Relay | Ametek (Solidstate Controls) | 07-740131-00 | 2ECB | Control Cabinet | Auxiliary Building | 554 | Catawba Report | Operator Actions using Existing Procedures |
| 307 | 2 | K301 | Control Relay | High DC Shunt Trip Relay | Ametek (Solidstate Controls) | 07-740131-00 | 2ECC | Control Cabinet | Auxiliary Building | 554 | Catawba Report | Operator Actions using Existing Procedures |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|-------------|----------------|---------------------------------|------------------------------|------------------------------|-----------|-----------------|---------------------------|------------------|----------------------|--|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 308 | 2 | K301 | Control Relay | High DC Shunt Trip Relay | Ametek (Solidstate Controls) | 07-740131-00 | 2ECD | Control Cabinet | Auxiliary Building | 554 | Catawba Report | Operator Actions using Existing Procedures |
| 309 | 2 | CON1 | Contactor | Overspeed Trip Auxiliary Relay | Allen-Bradley | 202-NX11 | 2ELCP0245 | Control Cabinet | Auxiliary Building | 543 | GERS | Operator Actions using Existing Procedures |
| 310 | 2 | CR3 | Control Relay | Overspeed Trip Relay | Agastat (or Tyco) | EGPD-003 or -004 (1423176-6) | 2ELCP0245 | Control Cabinet | Auxiliary Building | 543 | EPRI HF Test | Cap>Dem |
| 311 | 2 | CR4 | Control Relay | Mechanical Overspeed Trip Relay | Agastat (or Tyco) | EGPD-003 or -004 (1423176-6) | 2ELCP0245 | Control Cabinet | Auxiliary Building | 543 | EPRI HF Test | Cap>Dem |
| 312 | 2 | HB | Control Relay | Non-Emergency Trip Relay | Cutler-Hammer | D26MRD30A1 | 2ELCP0328 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 313 | 2 | JB | Control Relay | Lo-Lo Lube Oil Trip Relay | Cutler-Hammer | D26MRD30A | 2ELCP0328 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 314 | 2 | JC | Control Relay | Shutdown Cycle Seal-In Timer | Agastat | E7012PELL004 | 2ELCP0328 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 315 | 2 | R1(DA/SST1) | Process Switch | Overspeed Relay | Dynalco | SST-2400 | 2ELCP0328 | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 316 | 2 | R1(DB/SST2) | Process Switch | Overspeed Relay | Dynalco | SST-2400 | 2ELCP0328 | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 317 | 2 | R3(DA/SST1) | Process Switch | Overspeed Relay | Dynalco | SST-2400 | 2ELCP0328 | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 318 | 2 | R3(DB/SST2) | Process Switch | Overspeed Relay | Dynalco | SST-2400 | 2ELCP0328 | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 319 | 2 | HB | Control Relay | Non-Emergency Trip Relay | Cutler-Hammer | D26MRD30A1 | 2ELCP0329 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 320 | 2 | JB | Control Relay | Lo-Lo Lube Oil Trip Relay | Cutler-Hammer | D26MRD30A | 2ELCP0329 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|----------------|--------------------|--------------------------------|--------------|----------------|-----------|-----------------|---------------------------|------------------|----------------------|-------------------|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 321 | 2 | JC | Control Relay | Shutdown Cycle Seal-In Timer | Agastat | E7012PELL004 | 2ELCP0329 | Control Cabinet | Diesel Generator Building | 556 | GERS | Cap>Dem |
| 322 | 2 | R1(DA/SST1) | Process Switch | Overspeed Relay | Dynalco | SST-2400 | 2ELCP0329 | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 323 | 2 | R1(DB/SST2) | Process Switch | Overspeed Relay | Dynalco | SST-2400 | 2ELCP0329 | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 324 | 2 | R3(DA/SST1) | Process Switch | Overspeed Relay | Dynalco | SST-2400 | 2ELCP0329 | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 325 | 2 | R3(DB/SST2) | Process Switch | Overspeed Relay | Dynalco | SST-2400 | 2ELCP0329 | Control Cabinet | Diesel Generator Building | 556 | Catawba Report | Cap>Dem |
| 326 | 2 | TM1(2CAST5762) | Process Switch | Overspeed Trip Switch | Dynalco | SST-2400AN-173 | 2ELCP0334 | Control Cabinet | Auxiliary Building | 543 | Catawba Report | Cap>Dem |
| 327 | 2 | 52@2ELXA-04B | LV Circuit Breaker | Normal Incoming Feeder Breaker | ABB | K2000-S | 2ELXA | Load Center | Auxiliary Building | 577 | Catawba Report | Cap>Dem |
| 328 | 2 | 52@2ELXA-04C | LV Circuit Breaker | 2EMXA Feeder Breaker | ABB | K1600-S | 2ELXA | Load Center | Auxiliary Building | 577 | Catawba Report | Cap>Dem |
| 329 | 2 | 52@2ELXA-06C | LV Circuit Breaker | 2EMXE Feeder Breaker | ABB | K1600-S | 2ELXA | Load Center | Auxiliary Building | 577 | Catawba Report | Cap>Dem |
| 330 | 2 | 52@2ELXB-04B | LV Circuit Breaker | Normal Incoming Feeder Breaker | ABB | K2000-S | 2ELXB | Load Center | Auxiliary Building | 560 | Catawba Report | Cap>Dem |
| 331 | 2 | 52@2ELXB-04C | LV Circuit Breaker | 2EMXB Feeder Breaker | ABB | K1600-S | 2ELXB | Load Center | Auxiliary Building | 560 | Catawba Report | Cap>Dem |
| 332 | 2 | 52@2ELXB-06C | LV Circuit Breaker | 2EMXF Feeder Breaker | ABB | K1600-S | 2ELXB | Load Center | Auxiliary Building | 560 | Catawba Report | Cap>Dem |
| 333 | 2 | 52@2ELXC-04B | LV Circuit Breaker | Normal Incoming Feeder Breaker | ABB | K2000-S | 2ELXC | Load Center | Auxiliary Building | 577 | Catawba Report | Cap>Dem |
| 334 | 2 | 52@2ELXC-04C | LV Circuit Breaker | 2EMXI Feeder Breaker | ABB | K1600-S | 2ELXC | Load Center | Auxiliary Building | 577 | Catawba Report | Cap>Dem |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-------------------|------|----------------|--------------------|--------------------------------|--------------|--|-----------|-------------|----------------------------------|------------------|----------------------|--|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 335 | 2 | 52@2ELXD-04B | LV Circuit Breaker | Normal Incoming Feeder Breaker | ABB | K2000-S | 2ELXD | Load Center | Auxiliary Building | 560 | Catawba Report | Cap>Dem |
| 336 | 2 | 52@2ELXD-04C | LV Circuit Breaker | 2EMXJ Feeder Breaker | ABB | K1600-S | 2ELXD | Load Center | Auxiliary Building | 560 | Catawba Report | Cap>Dem |
| 337 | 2 | M/C@2EMXB-R03C | Contactor | Closing Contactor | Clark | T13U031-76 Contactor/KTM-10 or A77-463967A-1 Auxiliary Contacts | 2EMXB | MCC | Auxiliary Building | 560 | GERS | Operator Actions using Existing Procedures |
| 341 ^{vi} | 2 | M/C@2EMXE-F01C | Contactor | Closing Contactor | Clark | T13U031-76 Contactor/KTM-10 or A77-463967A-1 Auxiliary Contacts | 2EMXE | MCC | Diesel Generator Building | 556 | GERS | Operator Actions using Existing Procedures |
| 342 | 2 | M/C@2EMXF-F01C | Contactor | Closing Contactor | Clark | T13U031-76 Contactor/KTM-10 or A77-463967A-1 Auxiliary Contacts | 2EMXF | MCC | Diesel Generator Building | 556 | GERS | Operator Actions using Existing Procedures |
| 343 | 2 | M/C@2EMXK-F08B | Contactor | Closing Contactor | Clark | T13U031-76 Contactor/KTM-10 or A77-463967A-1 Auxiliary Contacts | 2EMXK | MCC | Auxiliary Building | 577 | GERS | Operator Actions using Existing Procedures |
| 344 | 2 | M/C@2EMXL-F08A | Contactor | Closing Contactor | Clark | T13U031-76 Contactor/KTM-10 or A77-463967A-1 Auxiliary Contacts | 2EMXL | MCC | Auxiliary Building | 556 | GERS | Operator Actions using Existing Procedures |
| 345 | 2 | M/O@2EMXL-F01B | Contactor | Opening Contactor | Clark | T13U031-76 Contactor/KTM-10 or A77-463967A-1 Auxiliary Contacts | 2EMXL | MCC | Auxiliary Building | 556 | GERS | Operator Actions using Existing Procedures |
| 346 | 2 | M/C@2EMXP-F01B | Contactor | Closing Contactor | Clark | T13U031-76 Contactor/KTM-10 or A77-463967A-1 Auxiliary Contacts | 2EMXP | MCC | Nuclear Service Water Pump House | 600 | GERS | Operator Actions using Existing Procedures |
| 347 | 2 | M/C@2EMXP-F01D | Contactor | Closing Contactor | Clark | T13U031-76 Contactor/KTM-10 or A77-463967A-1 Auxiliary Contacts | 2EMXP | MCC | Nuclear Service Water Pump House | 600 | GERS | Operator Actions using Existing Procedures |

^{vi} Item numbers 338 through 340 have been removed from the list of components identified.



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|----------------|--------------------|------------------------------------|--------------|--|-----------|------------|--------------------|------------------|----------------------|--|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 348 | 2 | M/C@2EMXS-F04A | Contactor | Closing Contactor | Clark | T13U031-76 Contactor/KTM-10 or A77-463967A-1 Auxiliary Contacts | 2EMXS | MCC | Auxiliary Building | 577 | GERS | Operator Actions using Existing Procedures |
| 349 | 2 | M/O@2EMXS-F01D | Contactor | Opening Contactor | Clark | T13U031-76 Contactor/KTM-10 or A77-463967A-1 Auxiliary Contacts | 2EMXS | MCC | Auxiliary Building | 577 | GERS | Operator Actions using Existing Procedures |
| 350 | 2 | M/O@2EMXS-F02B | Contactor | Opening Contactor | Clark | T13U031-76 Contactor/KTM-10 or A77-463967A-1 Auxiliary Contacts | 2EMXS | MCC | Auxiliary Building | 577 | GERS | Operator Actions using Existing Procedures |
| 351 | 2 | M/O@2EMXS-F06A | Contactor | Opening Contactor | Clark | T13U031-76 Contactor/KTM-10 or A77-463967A-1 Auxiliary Contacts | 2EMXS | MCC | Auxiliary Building | 577 | GERS | Operator Actions using Existing Procedures |
| 352 | 2 | M/O@2EMXS-F06B | Contactor | Opening Contactor | Clark | T13U031-76 Contactor/KTM-10 or A77-463967A-1 Auxiliary Contacts | 2EMXS | MCC | Auxiliary Building | 577 | GERS | Operator Actions using Existing Procedures |
| 353 | 2 | M/O@2EMXS-F06C | Contactor | Opening Contactor | Clark | T13U031-76 Contactor/KTM-10 or A77-463967A-1 Auxiliary Contacts | 2EMXS | MCC | Auxiliary Building | 577 | GERS | Operator Actions using Existing Procedures |
| 354 | 2 | 52@2ETA05 | MV Circuit Breaker | Feed to 2ETXA | ABB | 5HK-250, 1200A | 2ETA | Switchgear | Auxiliary Building | 577 | EPRI HF Test | Cap>Dem |
| 355 | 2 | 52@2ETA14 | MV Circuit Breaker | RN2PA Breaker | ABB | 5HK-250, 1200A | 2ETA | Switchgear | Auxiliary Building | 577 | EPRI HF Test | Cap>Dem |
| 356 | 2 | 52@2ETA16 | MV Circuit Breaker | Feed to 2ETXC | ABB | 5HK-250, 1200A | 2ETA | Switchgear | Auxiliary Building | 577 | EPRI HF Test | Cap>Dem |
| 357 | 2 | 52@2ETA18 | MV Circuit Breaker | Diesel Generator 2A Output Breaker | ABB | 5HK-250, 1200A | 2ETA | Switchgear | Auxiliary Building | 577 | EPRI HF Test | Cap>Dem |
| 358 | 2 | 52S(AF)@2ETA03 | MV Circuit Breaker | Normal Feeder Breaker | ABB | 700038-K01 or 700038-K51 | 2ETA | Switchgear | Auxiliary Building | 577 | EPRI HF Test | Cap>Dem |
| 359 | 2 | 52S(AF)@2ETA04 | MV Circuit Breaker | Standby Feeder Breaker | ABB | 700038-K01 or 700038-K51 | 2ETA | Switchgear | Auxiliary Building | 577 | EPRI HF Test | Cap>Dem |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|-----------------|--------------------|---|------------------|--------------------------|-----------|------------|--------------------|------------------|----------------------|--|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 360 | 2 | PA (51V)@2ETA18 | Protective Relay | Voltage Controlled Overcurrent Protection Relay | Westinghouse | COV-8 (1876244) | 2ETA | Switchgear | Auxiliary Building | 577 | SQRSTS | Operator Actions using Existing Procedures |
| 361 | 2 | PB (51V)@2ETA18 | Protective Relay | Voltage Controlled Overcurrent Protection Relay | Westinghouse | COV-8 (1876244) | 2ETA | Switchgear | Auxiliary Building | 577 | SQRSTS | Operator Actions using Existing Procedures |
| 362 | 2 | PC (51V)@2ETA18 | Protective Relay | Voltage Controlled Overcurrent Protection Relay | Westinghouse | COV-8 (1876244) | 2ETA | Switchgear | Auxiliary Building | 577 | SQRSTS | Operator Actions using Existing Procedures |
| 363 | 2 | PD(62B)@2ETA03 | Control Relay | Breaker Failure Timer | General Electric | SAM (12SAM11A21A-S) | 2ETA | Switchgear | Auxiliary Building | 577 | GERS | Operator Actions using Existing Procedures |
| 364 | 2 | 52@2ETB05 | MV Circuit Breaker | Feed to 2ETXB | ABB | 5HK-250, 1200A | 2ETB | Switchgear | Auxiliary Building | 560 | EPRI HF Test | Cap>Dem |
| 365 | 2 | 52@2ETB14 | MV Circuit Breaker | RN2PB Breaker | ABB | 5HK-250, 1200A | 2ETB | Switchgear | Auxiliary Building | 560 | EPRI HF Test | Cap>Dem |
| 366 | 2 | 52@2ETB16 | MV Circuit Breaker | Feed to 2ETXD | ABB | 5HK-250, 1200A | 2ETB | Switchgear | Auxiliary Building | 560 | EPRI HF Test | Cap>Dem |
| 367 | 2 | 52@2ETB18 | MV Circuit Breaker | Diesel Generator 1B Output Breaker | ABB | 5HK-250, 1200A | 2ETB | Switchgear | Auxiliary Building | 560 | EPRI HF Test | Cap>Dem |
| 368 | 2 | 52S(AF)@2ETB03 | MV Circuit Breaker | Normal Feeder Breaker | ABB | 700038-K01 or 700038-K51 | 2ETB | Switchgear | Auxiliary Building | 560 | EPRI HF Test | Cap>Dem |
| 369 | 2 | 52S(AF)@2ETB04 | MV Circuit Breaker | Standby Feeder Breaker | ABB | 700038-K01 or 700038-K51 | 2ETB | Switchgear | Auxiliary Building | 560 | EPRI HF Test | Cap>Dem |
| 370 | 2 | PA(51V)@2ETB18 | Protective Relay | Voltage Controlled Overcurrent Protection Relay | Westinghouse | COV-8 (1876244) | 2ETB | Switchgear | Auxiliary Building | 560 | SQRSTS | Operator Actions using Existing Procedures |
| 371 | 2 | PB(51V)@2ETB18 | Protective Relay | Voltage Controlled Overcurrent Protection Relay | Westinghouse | COV-8 (1876244) | 2ETB | Switchgear | Auxiliary Building | 560 | SQRSTS | Operator Actions using Existing Procedures |



Table B-1: Components Identified for High Frequency Confirmation

| No. | Unit | Component | | | | | Enclosure | | Building | Floor Elev. (ft) | Component Evaluation | |
|-----|------|----------------|------------------|---|------------------|---|-----------|------------|--------------------|------------------|----------------------|--|
| | | Device ID | Type | System Function | Manufacturer | Model | ID | Type | | | Basis for Capacity | Evaluation Result |
| 372 | 2 | PC(51V)@2ETB18 | Protective Relay | Voltage Controlled Overcurrent Protection Relay | Westinghouse | COV-8 (1876244) | 2ETB | Switchgear | Auxiliary Building | 560 | SQRSTS | Operator Actions using Existing Procedures |
| 373 | 2 | PD(62B)@2ETB03 | Control Relay | Breaker Failure Timer | General Electric | SAM (12SAM11A21A-S) | 2ETB | Switchgear | Auxiliary Building | 560 | GERS | Operator Actions using Existing Procedures |
| 374 | 2 | M/C@2MXW-F04D | Contactor | Closing Contactor | Clark | T13U031-76 Contactor/KTM-10 or A77-463967A-1 Auxiliary Contacts | 2MXW | MCC | Turbine Building | 568 | GERS | Operator Actions using Existing Procedures |