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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 Number ML17244A269

AD 10
NRR

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

U.S. Nuclear Regulatory Commission
CNS-17-058
Page | 3
December 28, 2017

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U.S. Nuclear Regulatory Commission
CNS-17-058
Page | 4
December 28, 2017

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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	Contactora	MOV Closing Contactora	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(1ESGAX1)	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	Contactora	MOV Closing Contactora	Clark	T13U031-76 Contactora/KTM-10 or A77-463967A-1 Auxiliary Contactsa	1EMXB	MCC	Auxiliary Building	556	GERS	Operator Actions using Existing Procedures
154 ^v	1	M/C@1EMXE-F01C	Contactora	Closing Contactora	Clark	T13U031-76 Contactora/KTM-10 or A77-463967A-1 Auxiliary Contactsa	1EMXE	MCC	Diesel Generator Building	556	GERS	Operator Actions using Existing Procedures
155	1	M/C@1EMXF-F01C	Contactora	Closing Contactora	Clark	T13U031-76 Contactora/KTM-10 or A77-463967A-1 Auxiliary Contactsa	1EMXF	MCC	Diesel Generator Building	556	GERS	Operator Actions using Existing Procedures
156	1	M/C@1EMXK-F08B	Contactora	Closing Contactora	Clark	T13U031-76 Contactora/KTM-10 or A77-463967A-1 Auxiliary Contactsa	1EMXK	MCC	Auxiliary Building	577	GERS	Operator Actions using Existing Procedures
157	1	M/C@1EMXL-F08A	Contactora	MOV Closing Contactora	Clark	T13U031-76 Contactora/KTM-10 or A77-463967A-1 Auxiliary Contactsa	1EMXL	MCC	Auxiliary Building	556	GERS	Operator Actions using Existing Procedures
158	1	M/O@1EMXL-F01B	Contactora	Opening Contactora	Clark	T13U031-76 Contactora/KTM-10 or A77-463967A-1 Auxiliary Contactsa	1EMXL	MCC	Auxiliary Building	556	GERS	Operator Actions using Existing Procedures
159	1	M/C@1EMXO-F01B	Contactora	Closing Contactora	Clark	T13U031-76 Contactora/KTM-10 or A77-463967A-1 Auxiliary Contactsa	1EMXO	MCC	Nuclear Service Water Pump House	600	GERS	Operator Actions using Existing Procedures
160	1	M/C@1EMXO-F01D	Contactora	Closing Contactora	Clark	T13U031-76 Contactora/KTM-10 or A77-463967A-1 Auxiliary Contactsa	1EMXO	MCC	Nuclear Service Water Pump House	600	GERS	Operator Actions using Existing Procedures
161	1	M/C@1EMXS-F04A	Contactora	Closing Contactora	Clark	T13U031-76 Contactora/KTM-10 or A77-463967A-1 Auxiliary Contactsa	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	Contactora	Closing Contactora	Clark	T13U031-76 Contactora/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	Contactora	Closing Contactora	Clark	T13U031-76 Contactora/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	Contactora	Closing Contactora	Clark	T13U031-76 Contactora/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	Contactora	Closing Contactora	Clark	T13U031-76 Contactora/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	Contactora	Closing Contactora	Clark	T13U031-76 Contactora/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	Contactora	Opening Contactora	Clark	T13U031-76 Contactora/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	Contactora	Closing Contactora	Clark	T13U031-76 Contactora/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	Contactora	Closing Contactora	Clark	T13U031-76 Contactora/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	Contactora	Closing Contactora	Clark	T13U031-76 Contactora/KTM-10 or A77-463967A-1 Auxiliary Contactsa	2EMXS	MCC	Auxiliary Building	577	GERS	Operator Actions using Existing Procedures
349	2	M/O@2EMXS-F01D	Contactora	Opening Contactora	Clark	T13U031-76 Contactora/KTM-10 or A77-463967A-1 Auxiliary Contactsa	2EMXS	MCC	Auxiliary Building	577	GERS	Operator Actions using Existing Procedures
350	2	M/O@2EMXS-F02B	Contactora	Opening Contactora	Clark	T13U031-76 Contactora/KTM-10 or A77-463967A-1 Auxiliary Contactsa	2EMXS	MCC	Auxiliary Building	577	GERS	Operator Actions using Existing Procedures
351	2	M/O@2EMXS-F06A	Contactora	Opening Contactora	Clark	T13U031-76 Contactora/KTM-10 or A77-463967A-1 Auxiliary Contactsa	2EMXS	MCC	Auxiliary Building	577	GERS	Operator Actions using Existing Procedures
352	2	M/O@2EMXS-F06B	Contactora	Opening Contactora	Clark	T13U031-76 Contactora/KTM-10 or A77-463967A-1 Auxiliary Contactsa	2EMXS	MCC	Auxiliary Building	577	GERS	Operator Actions using Existing Procedures
353	2	M/O@2EMXS-F06C	Contactora	Opening Contactora	Clark	T13U031-76 Contactora/KTM-10 or A77-463967A-1 Auxiliary Contactsa	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	Contactora	Closing Contactora	Clark	T13U031-76 Contactora/KTM-10 or A77-463967A-1 Auxiliary Contacts	2MXW	MCC	Turbine Building	568	GERS	Operator Actions using Existing Procedures