

OH Distribution Grounding Requirements per Line

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Summary:

The fault current values are for normal system or switching configurations but represent the value of the worst type of fault (3-phase, 2-phase to ground, 1-phase to ground) at the strongest substation to which the transmission line is connected.

NOTE: When multiple lower grade cables are required as listed in Table 1, they **CANNOT** be replaced with a singular cable of a higher grade.

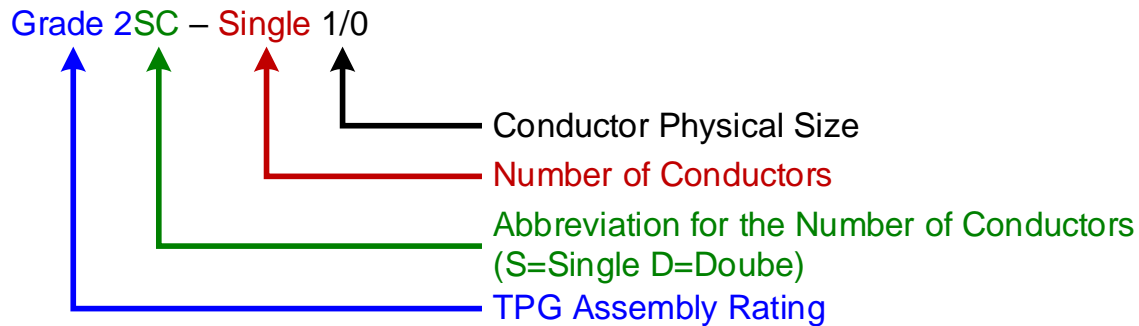
Table 1 – Replacing Grounding Requirement with Lower Grade

Requirement	Replacement with Lower Grade
1 assembly of 6H	2 assemblies of 5H
2 assemblies of 6H	3 assemblies of 5H
1 assembly of 5H	2 assemblies of Grade 5
2 assembly of 5H	3 assemblies of Grade 5
1 assembly of 3H	2 assemblies of Grade 3
1 assembly of 3	2 assemblies of Grade 2

Approved by: Signature on File
Aymen Lpizra
Manager, T&D Standards Engineering

Date: 23-Mar-23

1. Grounding Requirements” explained:



2. “Grounding Requirements” examples:

- a Grade 3HSC – Single 2/0 H Rated: This is a single 2/0 cable with Grade 3H rated clamps and ferules.
- b Grade 5HDC – Double 4/0 H Rated: This is two (2) 4/0 cables with Grade 5H rated Clamps. When TPG cables are doubled up, the assemblies should be identical (length and clamp type).
- c Grade 6HSC – Single 4/0 H Rated: This is a single 4/0 6H cable with Grade 6H rated clamps.

Substation	Feeder	Operating Company	Division	AWC	Voltage (kV)	Grounding Requirement
Dover AF40	32	NH	NH Eastern	Rochester	34.5	Grade 3SC - Single 2/0
Laconia AF77	310	NH	NH Northern	Tilton	34.5	Grade 2SC - Single 1/0
Jackman AF71	311	NH	NH Western	Keene	34.5	Grade 2SC - Single 1/0
Jackman AF71	313	NH	NH Western	Keene	34.5	Grade 2SC - Single 1/0
South Milford AF151	314	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
North Road AF106	315	NH	NH Western	Newport	34.5	Grade 3SC - Single 2/0
North Road AF106	316	NH	NH Western	Newport	34.5	Grade 2SC - Single 1/0
Oak Hill AF114	317	NH	NH Northern	Tilton	34.5	Grade 3HSC - Single 2/0 Grade H
Garvins AF52	318	NH	NH Central	Bedford	34.5	Grade 3HSC - Single 2/0 Grade H
Oak Hill AF114	319	NH	NH Northern	Tilton	34.5	Grade 3SC - Single 2/0
South Manchester AF150	320	NH	NH Central	Hooksett	34.5	Grade 2SC - Single 1/0
Huse Road AF70	321	NH	NH Central	Hooksett	34.5	Grade 3SC - Single 2/0
Rimmon AF134	322	NH	NH Central	Bedford	34.5	Grade 2SC - Single 1/0
Reeds Ferry AF132	323	NH	NH Central	Bedford	34.5	Grade 2SC - Single 1/0
Bedford AF9	324	NH	NH Central	Bedford	34.5	Grade 2SC - Single 1/0
Huse Road AF70	325	NH	NH Central	Hooksett	34.5	Grade 3SC - Single 2/0
South Milford AF151	329	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Canal Street AF28	331	NH	NH Central	Hooksett	34.5	Grade 3SC - Single 2/0
Garvins AF52	335	NH	NH Central	Bedford	34.5	Grade 3HSC - Single 2/0 Grade H
Laconia AF77	337	NH	NH Northern	Tilton	34.5	Grade 2SC - Single 1/0
Ashland AF7	338	NH	NH Northern	Tilton	34.5	Grade 2SC - Single 1/0
Resistance AF133	339	NH	NH Eastern	Portsmouth	34.5	Grade 2SC - Single 1/0
Portland Street AF128	340	NH	NH Eastern	Rochester	34.5	Grade 2SC - Single 1/0
Pemigewasset AF121	345	NH	NH Northern	Tilton	34.5	Grade 2SC - Single 1/0
White Lake AF181	346	NH	NH Northern	Chocorua	34.5	Grade 2SC - Single 1/0
Saco Valley AF139	347	NH	NH Northern	Chocorua	34.5	Grade 2SC - Single 1/0
Whitefield AF182	351	NH	NH Northern	Lancaster	34.5	Grade 2SC - Single 1/0
Berlin (NH) AF11	352	NH	NH Northern	Berlin	34.5	Grade 5SC - Single 4/0
Bridge Street AF18	353	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Eddy AF44	354	NH	NH Central	Bedford	34.5	Grade 3SC - Single 2/0
Brook Street (NH) AF21	356	NH	NH Central	Hooksett	34.5	Grade 2SC - Single 1/0
Rochester AF136	362	NH	NH Eastern	Rochester	34.5	Grade 2SC - Single 1/0
Canal Street AF28	364	NH	NH Central	Hooksett	34.5	Grade 3SC - Single 2/0
Resistance AF133	367	NH	NH Eastern	Portsmouth	34.5	Grade 2SC - Single 1/0
Laconia AF77	368	NH	NH Northern	Tilton	34.5	Grade 3SC - Single 2/0
Garvins AF52	374	NH	NH Central	Bedford	34.5	Grade 5SC - Single 4/0
Garvins AF52	375	NH	NH Central	Bedford	34.5	Grade 5SC - Single 4/0
Packers Falls AF119	377	NH	NH Eastern	Epping	34.5	Grade 2SC - Single 1/0
South Milford AF151	378	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Madbury AF88	380	NH	NH Eastern	Epping	34.5	Grade 3SC - Single 2/0
Monadnock AF97	382	NH	NH Western	Keene	34.5	Grade 2SC - Single 1/0
Hudson AF69	383	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Lost Nation AF85	384	NH	NH Northern	Lancaster	34.5	Grade 3SC - Single 2/0
Rochester AF136	386	NH	NH Eastern	Rochester	34.5	Grade 2SC - Single 1/0
South State Street AF153	387	NH	NH Central	Hooksett	34.5	Grade 2SC - Single 1/0
Brook Street (NH) AF21	388	NH	NH Central	Hooksett	34.5	Grade 2SC - Single 1/0
Hudson AF69	389	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Huse Road AF70	393	NH	NH Central	Hooksett	34.5	Grade 3SC - Single 2/0
Saco Valley AF139	395	NH	NH Northern	Chocorua	34.5	Grade 2SC - Single 1/0
Garvins AF52	396	NH	NH Central	Bedford	34.5	Grade 5SC - Single 4/0
Laconia AF77	398	NH	NH Northern	Tilton	34.5	Grade 2SC - Single 1/0
Dover AF40	399	NH	NH Eastern	Rochester	34.5	Grade 3SC - Single 2/0
Oak Hill AF114	3025	NH	NH Northern	Tilton	34.5	Grade 3SC - Single 2/0

Substation	Feeder	Operating Company	Division	AWC	Voltage (kV)	Grounding Requirement
Ocean Road AF115	3102	NH	NH Eastern	Portsmouth	34.5	Grade 3SC - Single 2/0
Brentwood AF16	3103	NH	NH Eastern	Epping	34.5	Grade 2SC - Single 1/0
Timber Swamp AF168	3105	NH	NH Eastern	Portsmouth	34.5	Grade 2SC - Single 1/0
Timber Swamp AF168	3106	NH	NH Eastern	Portsmouth	34.5	Grade 2SC - Single 1/0
Weare AF176	3108	NH	NH Central	Bedford	34.5	Grade 2SC - Single 1/0
Ocean Road AF115	3111	NH	NH Eastern	Portsmouth	34.5	Grade 2SC - Single 1/0
Timber Swamp AF168	3112	NH	NH Eastern	Portsmouth	34.5	Grade 2SC - Single 1/0
Chester (NH) AF31	3115	NH	NH Southern	Derry	34.5	Grade 2SC - Single 1/0
Huse Road AF70	3119	NH	NH Central	Hooksett	34.5	Grade 2SC - Single 1/0
Monadnock AF97	3120	NH	NH Western	Keene	34.5	Grade 2SC - Single 1/0
Oak Hill AF114	3122	NH	NH Northern	Tilton	34.5	Grade 3HSC - Single 2/0 Grade H
North Woodstock AF110	3126	NH	NH Northern	Tilton	34.5	Grade 2SC - Single 1/0
Chestnut Hill (NH) AF32	3139	NH	NH Western	Keene	34.5	Grade 2SC - Single 1/0
Jackman AF71	3140	NH	NH Western	Keene	34.5	Grade 2SC - Single 1/0
Bedford AF9	3142	NH	NH Central	Bedford	34.5	Grade 2SC - Single 1/0
Lawrence Road AF81	3144	NH	NH Southern	Nashua	34.5	Grade 3SC - Single 2/0
Hudson AF69	3146	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Hudson AF69	3147	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Dover AF40	3148	NH	NH Eastern	Rochester	34.5	Grade 3SC - Single 2/0
Pemigewasset AF121	3149	NH	NH Northern	Tilton	34.5	Grade 2SC - Single 1/0
Bedford AF9	3151	NH	NH Central	Bedford	34.5	Grade 2SC - Single 1/0
Long Hill AF84	3154	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
South Milford AF151	3155	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Tasker Farm AF162	3157	NH	NH Eastern	Rochester	34.5	Grade 2SC - Single 1/0
Packers Falls AF119	3162	NH	NH Eastern	Epping	34.5	Grade 2SC - Single 1/0
Reeds Ferry AF132	3164	NH	NH Central	Bedford	34.5	Grade 2SC - Single 1/0
Timber Swamp AF168	3165	NH	NH Eastern	Portsmouth	34.5	Grade 2SC - Single 1/0
Ocean Road AF115	3171	NH	NH Eastern	Portsmouth	34.5	Grade 3SC - Single 2/0
Timber Swamp AF168	3172	NH	NH Eastern	Portsmouth	34.5	Grade 2SC - Single 1/0
Jackman AF71	3173	NH	NH Western	Keene	34.5	Grade 2SC - Single 1/0
Tasker Farm AF162	3174	NH	NH Eastern	Rochester	34.5	Grade 2SC - Single 1/0
Hudson AF69	3175	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Chestnut Hill (NH) AF32	3178	NH	NH Western	Keene	34.5	Grade 2SC - Single 1/0
Huse Road AF70	3179	NH	NH Central	Hooksett	34.5	Grade 2SC - Single 1/0
North Road AF106	3180	NH	NH Western	Newport	34.5	Grade 2SC - Single 1/0
White Lake AF181	3181	NH	NH Northern	Chocorua	34.5	Grade 2SC - Single 1/0
Bedford AF9	3182	NH	NH Central	Bedford	34.5	Grade 2SC - Single 1/0
South State Street AF153	3190	NH	NH Central	Hooksett	34.5	Grade 2SC - Single 1/0
Ocean Road AF115	3191	NH	NH Eastern	Portsmouth	34.5	Grade 3SC - Single 2/0
Daniel AF39	3193	NH	NH Northern	Tilton	34.5	Grade 2SC - Single 1/0
Ashland AF7	3196	NH	NH Northern	Tilton	34.5	Grade 2SC - Single 1/0
Resistance AF133	3214	NH	NH Eastern	Portsmouth	34.5	Grade 2SC - Single 1/0
Daniel AF39	3216	NH	NH Northern	Tilton	34.5	Grade 2SC - Single 1/0
White Lake AF181	3218	NH	NH Northern	Chocorua	34.5	Grade 2SC - Single 1/0
Broad Street AF20	3223	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Tasker Farm AF162	3228	NH	NH Eastern	Rochester	34.5	Grade 2SC - Single 1/0
Packers Falls AF119	3229	NH	NH Eastern	Epping	34.5	Grade 2SC - Single 1/0
Monadnock AF97	3235	NH	NH Western	Keene	34.5	Grade 2SC - Single 1/0
Brook Street (NH) AF21	3248	NH	NH Central	Hooksett	34.5	Grade 2SC - Single 1/0
Weare AF176	3271	NH	NH Central	Bedford	34.5	Grade 2SC - Single 1/0
Timber Swamp AF168	3360	NH	NH Eastern	Portsmouth	34.5	Grade 3SC - Single 2/0
Timber Swamp AF168	3371	NH	NH Eastern	Portsmouth	34.5	Grade 3SC - Single 2/0
Bedford AF9	3392	NH	NH Central	Bedford	34.5	Grade 2SC - Single 1/0
North Road AF106	3410	NH	NH Western	Newport	34.5	Grade 2SC - Single 1/0
Madbury AF88	3425	NH	NH Eastern	Epping	34.5	Grade 3SC - Single 2/0
Bedford AF9	3467	NH	NH Central	Bedford	34.5	Grade 2SC - Single 1/0
Berlin (NH) AF11	3521	NH	NH Northern	Berlin	34.5	Grade 3HSC - Single 2/0 Grade H
Daniel AF39	3548	NH	NH Northern	Tilton	34.5	Grade 2SC - Single 1/0
Pine Hill AF125	3613	NH	NH Central	Hooksett	34.5	Grade 2SC - Single 1/0
Pine Hill AF125	3614	NH	NH Central	Hooksett	34.5	Grade 2SC - Single 1/0
Pine Hill AF125	3615	NH	NH Central	Hooksett	34.5	Grade 2SC - Single 1/0
Pine Hill AF125	3616	NH	NH Central	Hooksett	34.5	Grade 2SC - Single 1/0

Substation	Feeder	Operating Company	Division	AWC	Voltage (kV)	Grounding Requirement
Messer Street AF93	3625	NH	NH Northern	Tilton	34.5	Grade 2SC - Single 1/0
Brook Street (NH) AF21	3673	NH	NH Central	Hooksett	34.5	Grade 2SC - Single 1/0
Thornton AF166	3750	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Kingston AF75	3818	NH	NH Eastern	Epping	34.5	Grade 2SC - Single 1/0
North Woodstock AF110	3822	NH	NH Northern	Tilton	34.5	Grade 2SC - Single 1/0
Portsmouth AF129	3850	NH	NH Eastern	Portsmouth	34.5	Grade 2SC - Single 1/0
Bridge Street AF18	3891	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Opechee Bay AF117	10W1	NH	NH Northern	Tilton	12.47	Grade 2SC - Single 1/0
Black Brook AF13	11W1	NH	NH Northern	Tilton	12.47	Grade 2SC - Single 1/0
Black Brook AF13	11W2	NH	NH Northern	Tilton	12.47	Grade 2SC - Single 1/0
Blaine Street AF14	12W2	NH	NH Central	Bedford	12.47	Grade 2SC - Single 1/0
Blaine Street AF14	12W3	NH	NH Central	Bedford	12.47	Grade 2SC - Single 1/0
Blaine Street AF14	12W4	NH	NH Central	Bedford	12.47	Grade 2SC - Single 1/0
Brook Street (NH) AF21	13A	NH	NH Central	Hooksett	13.8	Grade 2SC - Single 1/0
Brook Street (NH) AF21	13B	NH	NH Central	Hooksett	13.8	Grade 2SC - Single 1/0
Brook Street (NH) AF21	13C	NH	NH Central	Hooksett	13.8	Grade 2SC - Single 1/0
Brook Street (NH) AF21	13D	NH	NH Central	Hooksett	13.8	Grade 2SC - Single 1/0
Newmarket AF101	13H1 (NH)	NH	NH Eastern	Epping	4.16	Grade 2SC - Single 1/0
Notre Dame AF112	13W1	NH	NH Central	Bedford	12.47	Grade 2SC - Single 1/0
South Manchester AF150	14H4 (NH)	NH	NH Central	Hooksett	4.16	Grade 2SC - Single 1/0
South Manchester AF150	14H7 (NH)	NH	NH Central	Hooksett	4.16	Grade 2SC - Single 1/0
South Manchester AF150	14H8 (NH)	NH	NH Central	Hooksett	4.16	Grade 2SC - Single 1/0
South Manchester AF150	14W1 (NH)	NH	NH Central	Hooksett	12.47	Grade 2SC - Single 1/0
South Manchester AF150	14W2 (NH)	NH	NH Central	Hooksett	12.47	Grade 2SC - Single 1/0
Bridge Street AF18	15H1	NH	NH Southern	Nashua	4.16	Grade 3SC - Single 2/0
Bridge Street AF18	15H2	NH	NH Southern	Nashua	4.16	Grade 3SC - Single 2/0
Bridge Street AF18	15H3	NH	NH Southern	Nashua	4.16	Grade 3SC - Single 2/0
Bridge Street AF18	15H4	NH	NH Southern	Nashua	4.16	Grade 3SC - Single 2/0
Bridge Street AF18	15H5	NH	NH Southern	Nashua	4.16	Grade 3SC - Single 2/0
Bridge Street AF18	15H6	NH	NH Southern	Nashua	4.16	Grade 3SC - Single 2/0
Edgeville AF45	16H1	NH	NH Southern	Nashua	4.16	Grade 2SC - Single 1/0
Edgeville AF45	16H2	NH	NH Southern	Nashua	4.16	Grade 2SC - Single 1/0
Edgeville AF45	16H3	NH	NH Southern	Nashua	4.16	Grade 2SC - Single 1/0
Hanover Street AF60	16W1	NH	NH Central	Hooksett	12.47	Grade 2SC - Single 1/0
Hanover Street AF60	16W3	NH	NH Central	Hooksett	12.47	Grade 2SC - Single 1/0
Pease Padmount AF120	16W4	NH	NH Eastern	Tilton	13.8	Grade 2SC - Single 1/0
Millyard AF96	17H1	NH	NH Southern	Nashua	4.16	Grade 2SC - Single 1/0
Millyard AF96	17H2	NH	NH Southern	Nashua	4.16	Grade 2SC - Single 1/0
Millyard AF96	17H3	NH	NH Southern	Nashua	4.16	Grade 2SC - Single 1/0
Millyard AF96	18H1	NH	NH Southern	Nashua	4.16	Grade 2SC - Single 1/0
Millyard AF96	18H2	NH	NH Southern	Nashua	4.16	Grade 2SC - Single 1/0
Millyard AF96	18H3	NH	NH Southern	Nashua	4.16	Grade 2SC - Single 1/0
Pinardville AF124	18W1	NH	NH Central	Bedford	12.47	Grade 2SC - Single 1/0
Pinardville AF124	18W3	NH	NH Central	Bedford	12.47	Grade 2SC - Single 1/0
Center Ossipee AF29	19W2	NH	NH Northern	Chocorua	12.47	Grade 2SC - Single 1/0
South State Street AF153	19X5	NH	NH Central	Hooksett	34.5	Grade 2SC - Single 1/0
South State Street AF153	19X6	NH	NH Central	Hooksett	34.5	Grade 2SC - Single 1/0
Community Street AF36	21H1	NH	NH Northern	Berlin	4.16	Grade 2SC - Single 1/0
Community Street AF36	21H2	NH	NH Northern	Berlin	4.16	Grade 2SC - Single 1/0
Community Street AF36	21H4	NH	NH Northern	Berlin	4.16	Grade 2SC - Single 1/0
Community Street AF36	21H5	NH	NH Northern	Berlin	4.16	Grade 2SC - Single 1/0
Valley Street AF171	22W1	NH	NH Central	Hooksett	12.47	Grade 2SC - Single 1/0
Valley Street AF171	22W2	NH	NH Central	Hooksett	12.47	Grade 2SC - Single 1/0
Malvern Street AF89	23W1	NH	NH Central	Hooksett	12.47	Grade 2SC - Single 1/0
Malvern Street AF89	23W2	NH	NH Central	Hooksett	12.47	Grade 2SC - Single 1/0
Malvern Street AF89	23W3	NH	NH Central	Hooksett	12.47	Grade 2SC - Single 1/0
Malvern Street AF89	23W4	NH	NH Central	Hooksett	12.47	Grade 2SC - Single 1/0
Milford AF94	23W7	NH	NH Southern	Nashua	12.47	Grade 2SC - Single 1/0
Ronald Street AF137	24H1	NH	NH Central	Hooksett	4.16	Grade 2SC - Single 1/0
Ronald Street AF137	24H2 (NH)	NH	NH Central	Hooksett	4.16	Grade 2SC - Single 1/0
Ash Street AF6	26W1	NH	NH Southern	Derry	12.47	Grade 2SC - Single 1/0
Goffstown AF54	27W2	NH	NH Central	Bedford	12.47	Grade 2SC - Single 1/0

Substation	Feeder	Operating Company	Division	AWC	Voltage (kV)	Grounding Requirement
Signal Street AF145	28H1	NH	NH Eastern	Rochester	4.16	Grade 2SC - Single 1/0
Signal Street AF145	28H2	NH	NH Eastern	Rochester	4.16	Grade 2SC - Single 1/0
Jaffrey AF72	28W1	NH	NH Eastern	Keene	12.47	Grade 2SC - Single 1/0
North Union Street AF109	29H1	NH	NH Central	Hooksett	4.16	Grade 2SC - Single 1/0
North Union Street AF109	29H2	NH	NH Central	Hooksett	4.16	Grade 2SC - Single 1/0
Blue Hill AF15	2H1	NH	NH Southern	Nashua	4.16	Grade 2SC - Single 1/0
Blue Hill AF15	2H2	NH	NH Southern	Nashua	4.16	Grade 2SC - Single 1/0
Foyes Corner AF49	2W4	NH	NH Eastern	Portsmouth	12.47	Grade 2SC - Single 1/0
Foyes Corner AF49	2W5	NH	NH Eastern	Portsmouth	12.47	Grade 2SC - Single 1/0
Thornton AF166	3010X	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Bridge Street AF18	3020X	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Amherst (NH) AF5	3110X	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Broad Street AF20	3110X-ALT	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Ocean Road AF115	3112-ALT	NH	NH Eastern	Portsmouth	34.5	Grade 2SC - Single 1/0
Pemigewasset AF121	3114X	NH	NH Northern	Tilton	34.5	Grade 2SC - Single 1/0
White Lake AF181	3116X	NH	NH Northern	Chocorua	34.5	Grade 2SC - Single 1/0
Eddy AF44	312	NH	NH Central	Bedford	34.5	Grade 3SC - Single 2/0
Mammoth Road AF90	3128X	NH	NH Southern	Derry	34.5	Grade 2SC - Single 1/0
Huse Road AF70	3130X	NH	NH Central	Hooksett	34.5	Grade 2SC - Single 1/0
Lawrence Road AF81	3133X	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Long Hill AF84	3136X	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Madbury AF88	3137X	NH	NH Eastern	Epping	34.5	Grade 2SC - Single 1/0
Bedford AF9	3138X	NH	NH Central	Bedford	34.5	Grade 2SC - Single 1/0
Chester (NH) AF31	3141X	NH	NH Southern	Derry	34.5	Grade 2SC - Single 1/0
South Manchester AF150	3142-ALT	NH	NH Central	Hooksett	34.5	Grade 2SC - Single 1/0
Amherst (NH) AF5	3143X	NH	NH Southern	Nashua	34.5	Grade 3SC - Single 2/0
South Milford AF151	3143X-ALT	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Lawrence Road AF81	3146-ALT	NH	NH Southern	Nashua	34.5	Grade 3SC - Single 2/0
Lawrence Road AF81	3147-ALT	NH	NH Southern	Nashua	34.5	Grade 3SC - Single 2/0
Rimmon AF134	3151-ALT	NH	NH Central	Bedford	34.5	Grade 2SC - Single 1/0
Madbury AF88	3152X	NH	NH Eastern	Epping	34.5	Grade 3SC - Single 2/0
Packers Falls AF119	3152X-ALT	NH	NH Eastern	Epping	34.5	Grade 2SC - Single 1/0
Portsmouth AF129	3153X	NH	NH Eastern	Portsmouth	34.5	Grade 2SC - Single 1/0
Broad Street AF20	3154-ALT	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Chester (NH) AF31	3156X	NH	NH Southern	Derry	34.5	Grade 2SC - Single 1/0
Amherst (NH) AF5	3159X	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Ocean Road AF115	3165-ALT	NH	NH Eastern	Portsmouth	34.5	Grade 2SC - Single 1/0
Bridge Street AF18	3168X	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Broad Street AF20	3168X-ALT	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Ocean Road AF115	3172-ALT	NH	NH Eastern	Portsmouth	34.5	Grade 2SC - Single 1/0
Long Hill AF84	3177X	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Mammoth Road AF90	3184X	NH	NH Southern	Derry	34.5	Grade 2SC - Single 1/0
Reeds Ferry AF132	3197X	NH	NH Central	Bedford	34.5	Grade 2SC - Single 1/0
Hudson AF69	3211X	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Lawrence Road AF81	3211X-ALT	NH	NH Southern	Nashua	34.5	Grade 3SC - Single 2/0
Amherst (NH) AF5	3212X	NH	NH Southern	Nashua	34.5	Grade 3SC - Single 2/0
South Milford AF151	3212X-ALT	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Daniel AF39	3215-ALT	NH	NH Northern	Tilton	34.5	Grade 2SC - Single 1/0
South Milford AF151	3217X	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Broad Street AF20	3217X-ALT	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Laconia AF77	3222X	NH	NH Northern	Tilton	34.5	Grade 2SC - Single 1/0
Thornton AF166	3241X	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
South Manchester AF150	325-ALT	NH	NH Central	Hooksett	34.5	Grade 2SC - Single 1/0
Great Bay AF55	3260X	NH	NH Eastern	Portsmouth	34.5	Grade 2SC - Single 1/0
Rimmon AF134	328	NH	NH Central	Bedford	34.5	Grade 2SC - Single 1/0
Broad Street AF20	329-ALT	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Portland Street AF128	32-ALT1	NH	NH Eastern	Rochester	34.5	Grade 2SC - Single 1/0
Somersworth AF148	32-ALT2	NH	NH Eastern	Rochester	34.5	Grade 2SC - Single 1/0
Scobie Pond AF142	32W1	NH	NH Southern	Derry	12.47	Grade 2SC - Single 1/0
Scobie Pond AF142	32W2	NH	NH Southern	Derry	12.47	Grade 2SC - Single 1/0
Scobie Pond AF142	32W3	NH	NH Southern	Derry	12.47	Grade 2SC - Single 1/0
Scobie Pond AF142	32W4	NH	NH Southern	Derry	12.47	Grade 2SC - Single 1/0

Substation	Feeder	Operating Company	Division	AWC	Voltage (kV)	Grounding Requirement
Scobie Pond AF142	32W5	NH	NH Southern	Derry	12.47	Grade 2SC - Single 1/0
South State Street AF153	331-ALT	NH	NH Central	Hooksett	34.5	Grade 2SC - Single 1/0
Saco Valley AF139	333X	NH	NH Northern	Chocorua	34.5	Grade 2SC - Single 1/0
Garvins AF52	334G	NH	NH Central	Bedford	34.5	Grade 3HSC - Single 2/0 Grade H
Rimmon AF134	334R	NH	NH Central	Bedford	34.5	Grade 2SC - Single 1/0
Rimmon AF134	335R	NH	NH Central	Bedford	34.5	Grade 2SC - Single 1/0
Daniel AF39	3381-ALT	NH	NH Northern	Tilton	34.5	Grade 2SC - Single 1/0
Hancock AF59	33W1	NH	NH Western	Monadnock	12.47	Grade 2SC - Single 1/0
Rochester AF136	340-ALT	NH	NH Eastern	Rochester	34.5	Grade 2SC - Single 1/0
Beebe River AF10	342A	NH	NH Northern	Tilton	34.5	Grade 2SC - Single 1/0
Beebe River AF10	342B	NH	NH Northern	Tilton	34.5	Grade 2SC - Single 1/0
Amherst (NH) AF5	3445X	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Broad Street AF20	3445X-ALT	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Whitefield AF182	348X	NH	NH Northern	Lancaster	34.5	Grade 2SC - Single 1/0
Portland Street AF128	34W3	NH	NH Eastern	Rochester	12.47	Grade 2SC - Single 1/0
Portland Street AF128	34W4	NH	NH Eastern	Rochester	12.47	Grade 2SC - Single 1/0
Berlin (NH) AF11	3525X	NH	NH Northern	Berlin	34.5	Grade 3HSC - Single 2/0 Grade H
Broad Street AF20	353-ALT	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Lost Nation AF85	355X	NH	NH Northern	Lancaster	34.5	Grade 3SC - Single 2/0
Canal Street AF28	357-ALT	NH	NH Central	Hooksett	34.5	Grade 2SC - Single 1/0
South Peterborough AF152	35W1	NH	NH Western	Monadnock	12.47	Grade 2SC - Single 1/0
Mammoth Road AF90	365X	NH	NH Southern	Derry	34.5	Grade 2SC - Single 1/0
Portsmouth AF129	367-ALT	NH	NH Eastern	Portsmouth	34.5	Grade 2SC - Single 1/0
South Manchester AF150	370X	NH	NH Central	Hooksett	34.5	Grade 2SC - Single 1/0
Dover AF40	371D	NH	NH Eastern	Rochester	34.5	Grade 3SC - Single 2/0
Somersworth AF148	371D-ALT	NH	NH Eastern	Rochester	34.5	Grade 2SC - Single 1/0
Portland Street AF128	371P	NH	NH Eastern	Rochester	34.5	Grade 2SC - Single 1/0
Lost Nation AF85	376L	NH	NH Northern	Lancaster	34.5	Grade 3SC - Single 2/0
Whitefield AF182	376W	NH	NH Northern	Lancaster	34.5	Grade 2SC - Single 1/0
Packers Falls AF119	380-ALT	NH	NH Eastern	Epping	34.5	Grade 2SC - Single 1/0
Great Bay AF55	3810X	NH	NH Eastern	Portsmouth	34.5	Grade 2SC - Single 1/0
Bridge Street AF18	383-ALT	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Portland Street AF128	386-ALT	NH	NH Eastern	Rochester	34.5	Grade 2SC - Single 1/0
Broad Street AF20	3891-ALT	NH	NH Southern	Nashua	34.5	Grade 2SC - Single 1/0
Long Hill AF84	389-ALT	NH	NH Southern	Nashua	34.5	Grade 3SC - Single 2/0
Littleworth Road AF82	38W1	NH	NH Eastern	Rochester	12.47	Grade 2SC - Single 1/0
Littleworth Road AF82	38W2	NH	NH Eastern	Rochester	12.47	Grade 2SC - Single 1/0
Rochester AF136	392X	NH	NH Eastern	Rochester	34.5	Grade 2SC - Single 1/0
Meetinghouse Road AF91	3W1	NH	NH Central	Bedford	12.47	Grade 2SC - Single 1/0
Meetinghouse Road AF91	3W2	NH	NH Central	Bedford	12.47	Grade 2SC - Single 1/0
Somersworth AF148	40H1	NH	NH Eastern	Rochester	4.16	Grade 2SC - Single 1/0
North Dover AF103	41H1	NH	NH Eastern	Rochester	4.16	Grade 2SC - Single 1/0
North Dover AF103	41H2	NH	NH Eastern	Rochester	4.16	Grade 2SC - Single 1/0
Suncook AF159	44W2	NH	NH Central	Hooksett	12.47	Grade 2SC - Single 1/0
Rye AF138	48H1	NH	NH Eastern	Portsmouth	4.16	Grade 2SC - Single 1/0
Rye AF138	48H2	NH	NH Eastern	Portsmouth	4.16	Grade 2SC - Single 1/0
New London (NH) AF99	48W1	NH	NH Western	Newport	12.47	Grade 2SC - Single 1/0
Swanzey AF160	4W1	NH	NH Western	Keene	12.47	Grade 2SC - Single 1/0
Swanzey AF160	4W2	NH	NH Western	Keene	12.47	Grade 2SC - Single 1/0
Twombly Street AF170	53W1	NH	NH Eastern	Rochester	12.47	Grade 2SC - Single 1/0
Twombly Street AF170	53W2	NH	NH Eastern	Rochester	12.47	Grade 2SC - Single 1/0
Laskeys Corner AF80	57W1	NH	NH Eastern	Rochester	12.47	Grade 2SC - Single 1/0
Lafayette Road AF78	58W1	NH	NH Eastern	Portsmouth	12.47	Grade 2SC - Single 1/0
Jackson Hill AF73	64W1	NH	NH Eastern	Portsmouth	12.47	Grade 2SC - Single 1/0
Jackson Hill AF73	64W2	NH	NH Eastern	Portsmouth	12.47	Grade 2SC - Single 1/0
Simon Street AF146	6W1	NH	NH Southern	Nashua	12.47	Grade 2SC - Single 1/0
Messer Street AF93	70W1	NH	NH Northern	Tilton	12.47	Grade 2SC - Single 1/0
Messer Street AF93	70W2	NH	NH Northern	Tilton	12.47	Grade 2SC - Single 1/0
Mill Pond AF95	71W1	NH	NH Eastern	Portsmouth	12.47	Grade 2SC - Single 1/0
Mill Pond AF95	71W2	NH	NH Eastern	Portsmouth	12.47	Grade 2SC - Single 1/0
Mill Pond AF95	71W3	NH	NH Eastern	Portsmouth	12.47	Grade 2SC - Single 1/0
Mill Pond AF95	71W4	NH	NH Eastern	Portsmouth	12.47	Grade 2SC - Single 1/0

Substation	Feeder	Operating Company	Division	AWC	Voltage (kV)	Grounding Requirement
Lowell Road AF87	72W1	NH	NH Southern	Nashua	12.47	Grade 2SC - Single 1/0
North Keene AF105	76W1	NH	NH Western	Keene	12.47	Grade 2SC - Single 1/0
Emerald Street AF47	76W3	NH	NH Western	Keene	12.47	Grade 3SC - Single 2/0
North Keene AF105	76W4	NH	NH Western	Keene	12.47	Grade 2SC - Single 1/0
North Keene AF105	76W5	NH	NH Western	Keene	12.47	Grade 2SC - Single 1/0
North Keene AF105	76W7	NH	NH Western	Keene	12.47	Grade 2SC - Single 1/0
Brown Avenue AF22	7W1	NH	NH Central	Hooksett	12.47	Grade 2SC - Single 1/0
High Street AF63	8W1	NH	NH Southern	Derry	12.47	Grade 2SC - Single 1/0
Front Street AF51	9H1	NH	NH Southern	Nashua	4.16	Grade 3HSC - Single 2/0 Grade H
Front Street AF51	9H2	NH	NH Southern	Nashua	4.16	Grade 3HSC - Single 2/0 Grade H
Opechee Bay AF117	9W1	NH	NH Northern	Tilton	12.47	Grade 2SC - Single 1/0
Emerald Street AF47	W1	NH	NH Western	Keene	12.47	Grade 2SC - Single 1/0
Emerald Street AF47	W110	NH	NH Western	Keene	12.47	Grade 2SC - Single 1/0
Emerald Street AF47	W15	NH	NH Western	Keene	12.47	Grade 2SC - Single 1/0
Emerald Street AF47	W175	NH	NH Western	Keene	12.47	Grade 2SC - Single 1/0
Emerald Street AF47	W185	NH	NH Western	Keene	12.47	Grade 3SC - Single 2/0
Emerald Street AF47	W2	NH	NH Western	Keene	12.47	Grade 2SC - Single 1/0
Emerald Street AF47	W9	NH	NH Western	Keene	12.47	Grade 2SC - Single 1/0