

EXHIBIT GLB-5

Blue Ridge EMC
 Pole Inventory Summary
 10/11/2017

File Photo ID	Photo Numbers	Circuit Number	Pole Number	40" Separation	8.5' Encumbrance	Guy & Anchor	Pole Equipment & Pedestal	Low Span	Transfer Needed
Day 1	1, 2, 3	112	Pole 06-11-178	X		X			
Day 1	5, 6	112	Pole 06-11-378	X		X			
Day 1	7, 8	112	Pole 06-11-182	X					
Day 1	9	112	Pole 06-11-183	X					
Day 1	10, 11, 12	112	Pole 06-11-184	X					
Day 1	13	112	Pole 06-11-185	X					
Day 1	14, 15, 16	112	Pole 06-12-029	X					
Day 1	17, 18, 19	112	Pole 06-12-083	X		X			
Day 1	20,21,22,23,24	112	Pole 06-11-188	X		X			
Day 1	25,26	112	Pole 06-12-022	X					
Day 1	27,28,29	112	Pole 06-12-023	X					
Day 1	30,31,32	112	Pole 06-12-252						X
Day 1	33,34	112	Pole 06-12-020	X					
Day 1	35,36	112	Pole 06-12-024		X				
Day 1	37,38,39	112	Pole 06-12-025		X				
Day 1	40,41,42	112	Pole 06-12-190	X					
Day 1	43,44,45	112	Pole 06-12-026		X				
Day 1	46,47,48	112	Pole 06-12-027	X					
Day 1	49,50,51	112	Pole 06-12-189	X					
Day 1	52,53	112	Pole 06-12-206	X					
Day 1	54,55,56	112	Pole 06-12-032	X					
Day 1	57,80	112	Pole 06-12-031						X
Day 1	58,59,60,61	112	Pole 06-12-204	X					
Day 1	62,63	112	Pole 06-12-030					X	
Day 1	81,82	112	Pole 06-12-033		X				
Day 1	64,65,66	112	Pole 06-12-053	X					
Day 1	67,68,69	112	Pole 06-12-052	X	X				
Day 1	70,71,72,73	112	Pole 06-12-034	X		X			
Day 1	74,75,76	112	Pole 06-12-035	X					
Day 1	77,78,79	112	Pole 06-12-044	X					
Day 2	1,2,3	112	Pole 06-12-045		X				
Day 2	4,5,6	112	Pole 06-12-253	X					
Day 2	7,8,9	112	Pole 06-12-046	X		X			
Day 2	10,11,12	112	Pole 06-12-058	X	X				
Day 2	13,14,15	112	Pole 06-12-102	X					
Day 2	16,17,18	112	Pole 06-12-059	X	X				
Day 2	19,20	112	Pole 06-12-092	X	X				
Day 2	21,22,23	112	Pole 06-12-086	X	X				
Day 2	24,25,26	112	Pole 06-12-060	X					
Day 2	27,28,29,30	112	Pole 06-12-061		X				
Day 2	31,32,33	112	Pole 06-12-087	X	X				
Day 2	34,35,36	112	Pole 06-12-244	X	X				
Day 2	37,38,39	112	Pole 06-12-093	X		X			
Day 2	40,41	112	Pole 06-12-245	X	X				
Day 2	42,43,44	112	Pole 06-12-181	X	X				
Day 2	45,46,47	112	Pole 06-12-182	X	X				
Day 2	48,49,50,51	112	Pole 06-12-184		X				
Day 2	52,53,54	112	Pole 06-12-237	X					
Day 2	55,56,57	112	Pole 06-12-236	X					
Day 2	58,59,60	112	Pole 07-09-181			X			
Day 2	61,62,108,109	112	Pole 06-12-063	X					
Day 2	63,64,65,66	112	Pole 06-12-146	X					
Day 2	67,68	112	Pole 06-12-147	X					
Day 2	69,70,71	112	Pole 06-12-174	X	X				
Day 2	72,73,74,75,76	112	Pole 06-12-202	X					
Day 2	77,78,79	112	Pole 06-12-175						X
Day 2	80,81,82,83	112	Pole 06-12-176	X	X	X			
Day 2	84,85,86	112	Pole 06-12-177	X	X	X			
Day 2	87,88,89	112	Pole 06-12-203	X					
Day 2	90,91,92	112	Pole 06-12-104	X	X				
Day 2	93,94,95	112	Pole 10-04-104		X				
Day 8	1,2,3,4,5	112	Pole 10-04-101	X					
Day 2	99,100,101,102	112	Pole 10-04-134	X	X				
Day 2	103,104	112	Pole 10-04-173	X	X				
Day 2	105,106,107	112	Pole 10-04-114	X		X			
Day 2	108,109,110	112	Pole 10-04-090	X	X	X			
Day 2	111,112,113	112	Pole 10-04-167	X	X				
Day 2	114,115	112	Pole 10-04-168		X				
Day 8	6,7,8,9	112	Pole 10-04-092		X				
Day 2	118,119,120	112	Pole 11-01-133	X	X				
Day 2		112	Pole 10-04-095	X	X	X			
Day 2		112	Pole 11-01-100	X	X				

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Oct 16 2017

File Photo ID	Photo Numbers	Circuit Number	Pole Number	40" Separation	8.5' Encumbrance	Guy & Anchor	Pole Equipment & Pedestal	Low Span	Transfer Needed
Day 2	121,122,123	112	Pole 11-01-101	X	X				
Day 2	124,125,126	112	Pole 11-01-054	X	X				
Day 2	127,128,129,130	112	Pole 11-01-035	X		X			
Day 2	131,132,133,134	112	Pole 11-01-102	X		X			
Day 2	135,136	112	Pole 11-01-020		X				
Day 2	137,138	112	Pole 11-01-024	X	X				
Day 2	139,140,141	112	Pole 10-04-098	X	X				
Day 2		112	Pole 10-04-097	X					
Day 2	142,143,144,145	112	Pole 11-01-016	X	X				
Day 2	146,147,148,149	112	Pole 11-01-050	X	X	X			
Day 2	150,151,152,153	112	Pole 11-01-051	X					
Day 2	154,155,156,157	112	Pole 11-01-056	X	X	X			
Day 2	158,159,160	112	Pole 11-01-057	X	X				
Day 2		112	Pole 11-01-058	X					
Day 2	161,162	112	Pole 11-01-060	X	X				
Day 2		112	Pole 11-01-069	X	X				
Day 2	163,164,165	112	Pole 11-01-070	X	X				
Day 2	166,167,168	112	Pole 11-01-095	X	X				
Day 2	169,170	112	Pole 11-01-071	X	X				
Day 2	171,172,173	112	Pole 11-01-072	X	X				
Day 2	174,175,176	112	Pole 10-04-136	X	X				
Day 2	177,178,179	112	Pole 10-04-137	X	X				
Day 8	10,11,12,13	112	Pole-10-04-139	X	X				
Day 2	183,184,185	112	Pole 10-04-140	X	X				
Day 2	186,187,188	112	Pole 10-04-138	X	X				
Day 2-Camera	1,2,3,4	112	Pole 06-12-197	X	X				
Day 2-Camera	5,6,7	112	Pole 06-12-198	X	X				
Day 2-Camera	8,9,10	112	Pole 06-12-149	X					
Day 2-Camera	11,12,13	112	Pole 06-12-150	X					
Day 2-Camera	14,15,16,17	112	Pole 07-09-052	X	X				
Day 2-Camera	18,19,20	112	Pole 07-09-168	X	X				
Day 2-Camera	21,22,23,24	112	Pole 07-09-046	X	X	X			
Day 2-Camera	25,26,27,28	112	Pole 07-09-045	X	X				
Day 2-Camera	29,30,31	112	Pole 07-09-190	X	X				
Day 2-Camera	32,33,34	112	Pole 07-09-144	X	X				
Day 2-Camera	35,36,37	112	Pole 07-09-067	X	X				
Day 2-Camera	38,39,40,41	112	Pole 07-09-079	X	X				
Day 2-Camera	42,43,44	112	Pole 07-09-041	X		X			
Day 2-Camera		112	Pole 07-09-080	X	X				
Day 2-Camera	45,46	112	Pole 07-09-040		X				
Day 2-Camera	47,48,49	112	Pole 07-09-059		X				
Day 2-Camera	50,51,52	112	Pole 07-09-042	X	X				
Day 2-Camera	53,54,55	112	Pole 07-09-073		X				
Day 2-Camera	56,57,58	112	Pole 07-09-084	X					
Day 2-Camera	59,60,61	112	Pole 07-09-043	X					
Day 2-Camera	62,63,64	112	Pole 07-09-071	X	X				
Day 2-Camera	65,66,67	112	Pole 07-09-072	X	X				
Day 2-Camera	68,69,70	112	Pole 07-09-075	X	X				
Day 2-Camera	71,72,73	112	Pole 07-09-081	X	X				
Day 2-Camera	74,75,76	112	Pole 07-09-083	X		X			
Day 2-Camera	77,78,79,80	112	Pole 07-09-090	X	X				
Day 2-Camera	81,82,83	112	Pole 07-09-091	X	X				
Day 2-Camera	84,85,86	112	Pole 07-09-092	X	X				
Day 2-Camera	87,88	112	Pole 07-09-093	X	X				
Day 2-Camera	89,90	112	Pole 07-09-094	X	X				
Day 2-Camera	91,92	112	Pole 06-12-199		X				
Day 2-Camera	94,95,96	112	Pole 06-12-142	X					
Day 2-Camera	97,98,99,100	112	Pole 06-12-163	X	X	X			
Day 2-Camera	101,102,103,104	112	Pole 06-12-164		X	X			
Day 2-Camera	105,106,107	112	Pole 06-12-170		X				
Day 3	1,2,3,4	112	Pole 11-01-015	X	X				
Day 8	14,15,16,17	112	Pole 11-01-066	X	X				
Day 3	10,11,12	112	Pole 11-01-052	X	X				
Day 3	13,14,15	112	Pole 11-01-053	X					
Day 3	16,17,18	112	Pole 11-01-084	X	X				
Day 3	19,20,21,22	112	Pole 11-01-085	X	X				
Day 3	23,24,25,26	112	Pole 11-01-086	X	X				
Day 3	27,28,29,30	112	Pole 11-01-087	X	X				
Day 3	31,32,33	112	Pole 11-01-088		X	X			
Day 8	18,19,20	112	Pole 11-01-089	X					
Day 8	21,22,23,24	112	Pole 11-01-098	X	X				
Day 3	40,41,42	112	Pole 11-01-090	X					
Day 3	43,44,45	112	Pole 11-01-091	X	X				
Day 3		112	Pole 11-01-093	X					
Day 3	46,47,48,49	112	Pole 10-04-127	X	X				
Day 3	50,51,52	112	Pole 10-04-128		X				
Day 3	53,54,55	112	Pole 11-01-131	X					
Day 3	56,57,58	112	Pole 10-04-131	X					
Day 3	59,60,61	112	Pole 11-01-014	X					

File Photo ID	Photo Numbers	Circuit Number	Pole Number	40" Separation	8.5' Encumbrance	Guy & Anchor	Pole Equipment & Pedestal	Low Span	Transfer Needed
Day 3	62,63,64	112	Pole 11-01-013	X					
Day 3	65,66,67	112	Pole 11-01-094	X					
Day 3	68,69,70,71	112	Pole 11-01-097	X					
Day 3	72,73,74	112	Pole 11-01-103	X					
Day 3	75,76,77	112	Pole 11-01-004	X					
Day 3	78,79,80	112	Pole 11-01-003	X	X				
Day 3	81,82,83	112	Pole 11-01-002		X				
Day 3		112	Pole 11-05-120	X					
Day 3	84,85	112	Pole 11-05-012		X				
Day 3	86,87	112	Pole 11-05-011		X				
Day 3		112	Pole 11-05-010	X					
Day 3	88,89,90,91	112	Pole 11-05-064	X	X	X			
Day 3	92,93,94,95	112	Pole 11-05-043	X		X			
Day 3	96,97,98	112	Pole 11-05-060		X				
Day 3	99,100,101,102	112	Pole 11-05-061	X	X	X			
Day 3	103,104,105,106	112	Pole 11-05-063	X	X	X			
Day 3		112	Pole 11-05-009	X					
Day 8	25,26,27,28	112	Pole 11-05-008	X					
Day 3	110,111,112	112	Pole 11-05-062	X	X	X			
Day 3	113,114,115	112	Pole 11-05-056	X					
Day 3	116,117,118	112	Pole 11-05-077	X	X				
Day 3	119,120,121	112	Pole 11-05-076	X	X				
Day 3	122,123,124	112	Pole 11-05-079	X	X				
Day 8	29,30,31,32	112	Pole 11-05-080	X	X				
Day 3	126,127,128	112	Pole 11-05-078	X	X				
Day 3	129,130,131	112	Pole 11-05-037	X					
Day 3		112	Pole 11-05-013	X					
Day 3	132,133,134,135	112	Pole 11-05-081	X	X	X			
Day 3	136,137,138,139	112	Pole 11-05-083	X	X	X			
Day 3	140,141,142,143	112	Pole 11-05-085	X					
Day 3	144,145	112	Pole 11-05-091	X	X				
Day 3	146,147,148	112	Pole 11-05-015	X	X				
Day 3	149,150	112	Pole 11-05-100	X	X				
Day 3	151,152,153	112	Pole 11-05-016	X					
Day 3	154,155,156	112	Pole 11-05-017	X	X				
Day 3	157,158,159	112	Pole 11-05-093	X					
Day 3	160,161,162	112	Pole 11-05-018	X					
Day 3	163,164,165,166	112	Pole 11-05-019	X		X			
Day 3	167,168,169	112	Pole 11-05-052	X					
Day 3	170,171,172,173	112	Pole 11-05-088	X		X			
Day 8	33,34,35,36	112	Pole 11-05-089	X					
Day 3	177,178	112	Pole 11-05-117	X					
Day 8	37,38,39,40,41	112	Pole 11-05-020	X	X	X			
Day 3	184,185,186,187	112	Pole 11-05-057	X	X	X			
Day 3	188,189,190	112	Pole 11-05-097	X					
Day 3	191,192,193,194	112	Pole 11-05-058	X	X	X			X
Day 3	195,196,197	112	Pole 11-05-033	X	X				
Day 8	42,43,44,45	112	Pole 11-05-034	X	X				
Day 3	201,202,203	112	Pole 11-05-111		X				
Day 3	204,205,206	112	Pole 11-05-086		X				
Day 3	207,208	112	Pole 11-05-059	X					
Day 3	209,210	112	Pole 11-05-096	X	X				
Day 3	211,212,213,214	112	Pole 11-05-095	X	X	X			
Day 3	215,216,217	112	Pole 11-05-006	X					
Day 3	218,219,220	112	Pole 11-05-104	X	X				
Day 3	221,222,223	112	Pole 11-05-001	X					
Day 3	224,225,226,227	112	Pole 11-06-140	X	X				
Day 3	228,229,230,231	112	Pole 11-06-028	X					
Day 3	232,233	112	Pole 11-06-039	X	X				
Day 3	234,235,236	112	Pole 11-06-061	X		X			
Day 3	237,238,239,240	112	Pole 11-06-137	X	X				
Day 3	241,242,243	112	Pole 11-06-038	X					
Day 3		112	Pole 11-06-141	X		X			
Day 3	244,245,246,247	112	Pole 11-06-078	X					
Day 3	248,249,250	112	Pole 11-06-077	X		X			
Day 3	251,252,253	112	Pole 11-06-011	X					
Day 3	254,255,256,257	112	Pole 11-06-079	X		X			
Day 3	258,259,260	112	Pole 11-06-012	X		X			
Day 8	46,47,48,49	112	Pole 11-06-055	X					
Day 3	264,265	112	Pole 11-06-145	X					
Day 3	266,267	112	Pole 11-06-146	X	X				
Day 3	268,269,270	112	Pole 11-06-147	X	X	X			
Day 3	271,272,273,274	112	Pole 11-06-148	X	X	X			
Day 3	275,276,277,278	112	Pole 11-06-013	X	X				
Day 4	1,2,3	112	Pole 11-06-034	X	X	X			
Day 4	4,5,6,7,8	112	Pole 11-06-111	X	X				
Day 4	9,10	112	Pole 11-06-035	X	X				
Day 4	11	112	Pole 11-06-036	X	X				
Day 4	12,13	112	Pole 11-06-010						X
Day 4	14,15,16	112	Pole 11-06-082	X	X				
Day 4	17,18,19	112	Pole 11-06-083	X	X	X			
Day 4	20,21,22	112	Pole 11-06-008	X	X				
Day 4	23,24,25	112	Pole 11-06-007		X				
Day 4	29,30,31	112	Pole 11-06-005	X		X			

File Photo ID	Photo Numbers	Circuit Number	Pole Number	40" Separation	8.5' Encumbrance	Guy & Anchor	Pole Equipment & Pedestal	Low Span	Transfer Needed
Day 4	32,33,34	112	Pole 11-06-045	X					
Day 4	35,36,37	112	Pole 11-06-100	X	X	X			
Day 4	38,39,40	112	Pole 11-06-101	X					
Day 4	41,42,43	112	Pole 11-06-070		X				
Day 4	44,45,46,47	112	Pole 11-06-071	X					
Day 4	48,49,50	112	Pole 11-06-104		X				
Day 4	51,52,53	112	Pole 11-06-105	X	X				
Day 4	54,55,56	112	Pole 11-06-073	X		X			
Day 4	57,58,59,60	112	Pole 11-02-027	X		X			
Day 4	61,62	112	Pole 11-02-007	X	X	X		X	
Day 4	63,64,65	112	Pole 11-02-153	X	X				
Day 4	66,67,68,69	112	Pole 11-02-174	X		X			
Day 4	70,71,72,73	112	Pole 11-01-081		X	X			
Day 4	74,75,76,77	112	Pole 11-02-008	X		X			
Day 4	78,79,80,81	112	Pole 11-02-069		X				
Day 4	84,85,86	112	Pole 11-02-009	X	X				
Day 4	82,83	112	Pole 11-02-010	X	X				
Day 4	281,282,283	112	Pole 11-02-084	X	X				
Day 4	87,88,89	112	Pole 11-02-017	X	X				
Day 4	90,91,92,93	112	Pole 11-02-138	X		X			
Day 4	94,95	112	Pole 11-01-080	X					
Day 4	96,97,98	112	Pole 11-01-108	X	X				
Day 4	99,100,101,102	112	Pole 11-01-030	X		X			
Day 4	103,104,105,106,107	112	Pole 11-02-137	X	X	X			
Day 4	108,109,110	112	Pole 11-02-136	X	X				
Day 4	111,112,113	112	Pole 11-02-016	X					
Day 4	114,115,116,117	112	Pole 11-02-102	X					
Day 4	127,128	112	Pole 11-02-020		X				
Day 4	118,119,120	112	Pole 11-02-103	X		X			
Day 4	121,122	112	Pole 11-02-104	X					
Day 4	123,124,125,126	112	Pole 11-02-119	X		X			
Day 4	129,130	112	Pole 11-02-021		X				
Day 4	131,132,133	112	Pole 11-02-022	X					
Day 4	134,135,136	112	Pole 11-02-023	X					
Day 4	137,138,139	112	Pole 11-02-089		X				
Day 4	144,145,146,147	112	Pole 11-02-024	X	X				
Day 4	148,149,150,151	112	Pole 11-02-148	X					
Day 4	152,153,154,155	112	Pole 11-02-029	X		X			
Day 4	156,157,158,159	112	Pole 11-02-030	X	X				
Day 4		112	Pole 11-02-031	X	X				
Day 4	160,161,162,163	112	Pole 11-02-032	X					
Day 4	164,165	112	Pole 11-02-091	X	X				
Day 4	166,167	112	Pole 11-02-092	X	X				
Day 4	168,169	112	Pole 11-02-074	X	X				
Day 4	170,171,172	112	Pole 11-02-033	X	X				
Day 4	173,174,175	112	Pole 11-02-038	X	X				
Day 4	176,177,178	112	Pole 11-02-140	X	X				
Day 4	179,180,181,182	112	Pole 11-02-141	X					
Day 8	50,51,52,53	112	Pole 11-01-129	X	X				
Day 4	186,187,188	112	Pole 11-01-041						X
Day 4	189,190	112	Pole 11-01-105		X				
Day 4	191,192,193,194	112	Pole 11-01-040						X
Day 4	195,196,197	112	Pole 11-01-126	X	X				
Day 4	198,199,200	112	Pole 11-01-138						X
Day 4	201,202	112	Pole 11-01-062	X	X				
Day 4	203,204,205,206	112	Pole 11-01-036						X
Day 4	207,208	112	Pole 11-01-037		X				
Day 4	209,210,211	112	Pole 11-01-127		X				
Day 4	212,213,214,215	112	Pole 07-09-106	X		X			
Day 4	216,217,218	112	Pole 11-01-128	X	X				
Day 4	219,220,221,222	112	Pole 07-09-136	X	X	X			
Day 4	223,224,225	112	Pole 07-09-137	X	X				
Day 4	226,227,228	112	Pole 07-09-095	X	X				
Day 4	229,230,231,232,233	112	Pole 07-09-025	X	X	X			
Day 4	234,235,236,237	112	Pole 11-02-037						X
Day 4		112	Pole 11-02-107	X	X				
Day 4	238,239	112	Pole 11-02-129	X	X				
Day 4	240,241	112	Pole 11-02-039	X	X				
Day 4	242,243	112	Pole 11-02-130	X	X				
Day 4	244,245,246	112	Pole 11-02-131	X	X				
Day 4	247,248,249	112	Pole 11-02-132	X	X				
Day 4	250,251,252	112	Pole 11-02-133	X					
Day 4	253,254,255,256	112	Pole 11-02-171	X	X				
Day 4	257,258,259,260	112	Pole 11-02-172	X	X				
Day 4	261,262,263,264,265	112	Pole 11-01-027	X	X				
Day 4	266,267,268,269,270	112	Pole 11-01-028	X	X				
Day 4	271,272,273	112	Pole 11-02-178	X	X				
Day 4	274,275,276,277	112	Pole 11-02-042						X
Day 4	278,279,280	112	Pole 11-02-070	X	X				
Day 5	1,2,3	112	Pole 07-09-189	X	X				
Day 5	4,5,6	112	Pole 07-09-188	X					
Day 5	7,8,9,10	112	Pole 07-09-142	X	X				
Day 5	11,12,13,14,15	112	Pole 07-09-118	X					
Day 5	16,17,18,19	112	Pole 07-09-139		X				

File Photo ID	Photo Numbers	Circuit Number	Pole Number	40" Separation	8.5' Encumbrance	Guy & Anchor	Pole Equipment & Pedestal	Low Span	Transfer Needed
Day 5	20,21,22,23	112	Pole 07-09-152	X	X				
Day 5	24,25,26,27	112	Pole 07-09-121	X	X				
Day 5	28,29,30,31	112	Pole 07-09-125	X					
Day 5	32,33,34,35	112	Pole 07-09-122	X	X				
Day 5	36,37,38	112	Pole 07-09-028	X	X				
Day 5	39,40,41	112	Pole 07-09-145	X					
Day 5	42,43	112	Pole 07-09-060	X	X				
Day 5	44,45,46	112	Pole 07-09-029						X
Day 5	47,48,49,50	112	Pole 07-09-031	X	X				
Day 5	51,52	112	Pole 07-09-032	X	X				
Day 5	53,54,55,56	112	Pole 07-09-033	X	X	X			
Day 5	57,58,59,60	112	Pole 07-09-133	X	X				
Day 5	61,62,63	112	Pole 07-09-087	X	X				
Day 5	64,65,66	112	Pole 07-09-034	X	X				
Day 5	67,68,69,70,71	112	Pole 07-09-035	X		X			
Day 5	72,73,74	112	Pole 11-02-047	X					
Day 5	75,76,77,78	112	Pole 11-02-122	X					
Day 5	79,80	112	Pole 11-02-121	X	X				
Day 5	81,82,83	112	Pole 11-02-071		X				
Day 5	84,85,86	112	Pole 11-02-127	X					
Day 5	87,88,89	112	Pole 11-02-072	X	X				
Day 5	90,91,92,93	112	Pole 11-02-128	X	X				
Day 5	94,95,96	112	Pole 11-02-075	X	X				
Day 5	97,98	112	Pole 11-02-076	X	X				
Day 5	99,100	112	Pole 11-02-077		X	X			
Day 5	101,102,103,104	112	Pole 11-02-173	X	X	X			
Day 5	105,106,107	112	Pole 11-02-045	X	X				
Day 5	108,109	112	Pole 11-02-162	X	X				
Day 5	110,111	112	Pole 11-02-044						X
Day 5	112,113,114	112	Pole 11-02-043	X	X				
Day 5	115,116,117,118	123	Pole 22-06-115	X					
Day 5	119,120,121	123	Pole 22-07-030						X
Day 5	122,123,124	123	Pole 22-03-055	X	X				
Day 5	125,126,127	123	Pole 22-03-066		X				
Day 5	128,129,130,131	123	Pole 22-03-054		X				
Day 5	132,133,134,135,136	123	Pole 22-06-001	X	X				
Day 5	141,142,143,144	123	Pole 22-06-138	X					
Day 5	145,146,147	123	Pole 22-06-002	X	X				
Day 5	148,149,150	123	Pole 22-07-031	X	X				
Day 5	151,152,153,154,155	123	Pole 22-07-032			X			
Day 5	156,157,158,159	123	Pole 22-07-033	X	X				
Day 5	160,161,162,163	123	Pole 22-07-034						X
Day 5	164,165,166,167	123	Pole 22-07-035	X					
Day 5	168,169	123	Pole 22-07-036						X
Day 5	170,171,172,173	123	Pole 22-07-038	X	X				
Day 5	174,175,176	123	Pole 22-07-012	X	X				
Day 5	177,178,179	123	Pole 22-07-017	X					
Day 5	180,181,182,183	123	Pole 22-07-013	X	X				
Day 5	184,185,186	123	Pole 22-06-091	X					
Day 5	187,188	123	Pole 22-06-012						X
Day 6	1,2,3,4	123	Pole 22-06-017	X					
Day 6	5,6,7	123	Pole 22-06-018	X					
Day 6	8,9,10,11	123	Pole 22-06-023	X					
Day 6	12,13,14,15,16	123	Pole 22-06-126	X	X				
Day 6	17,18,19	123	Pole 22-06-127	X	X				
Day 6	20,21,22,23	123	Pole 22-06-019	X					
Day 6	24,25,26,27	123	Pole 22-06-020	X					
Day 6	28,29,30	123	Pole 22-06-128	X	X				
Day 6	31,32	123	Pole 22-06-110	X					
Day 6	33,34	123	Pole 22-06-033	X					
Day 6	35,36,37	123	Pole 22-06-129	X	X				
Day 6	38,39,40	123	Pole 22-06-065	X					
Day 6	41,42,43	123	Pole 22-06-090	X	X				
Day 6	44,45,46	123	Pole 22-06-035		X				
Day 6	47,48,49,50	123	Pole 22-06-122	X					
Day 6	51,52,53	123	Pole 22-10-069	X	X				
Day 6	54,55,56	123	Pole 22-10-070	X	X				
Day 6	57,58,59,60	123	Pole 22-10-023	X					
Day 6	61,62,63	123	Pole 22-10-045		X				
Day 6	64,65	123	Pole 22-06-031	X	X				
Day 6	66,67	123	Pole 22-06-032	X					
Day 6	68,69,70	123	Pole 22-10-053		X				
Day 6	71,72	123	Pole 22-10-055	X	X				
Day 6	73,74,75	123	Pole 22-10-054	X					
Day 6	76,77,78	123	Pole 22-10-056	X					
Day 6	79,80,81,82	123	Pole 22-10-049	X	X				
Day 6	83,84,85	123	Pole 22-10-050	X	X				
Day 6	86,87,88	123	Pole 22-10-051	X	X				
Day 6	89,90,91,125,126	123	Pole 22-10-001	X	X				
Day 6	92,93	123	Pole 22-06-130	X	X				
Day 6	94,95,96	123	Pole 22-06-131	X	X				
Day 6	97,98,99,100	123	Pole 22-06-025	X					
Day 6	101,102	123	Pole 22-06-024		X				
Day 6	103,104,105,106	123	Pole 22-06-106	X					

File Photo ID	Photo Numbers	Circuit Number	Pole Number	40" Separation	8.5' Encumbrance	Guy & Anchor	Pole Equipment & Pedestal	Low Span	Transfer Needed
Day 6	107,108,109	123	Pole 22-11-042	X	X				
Day 6	110,111,112	123	Pole 22-11-044		X				
Day 6	113,114	123	Pole 22-11-046	X	X				
Day 6	115,116	123	Pole 22-10-012		X				
Day 6	117,118,119	123	Pole 22-10-011		X				
Day 6	120,121	123	Pole 22-10-003	X	X				
Day 6	122,123,124	123	Pole 22-10-002	X	X				
Day 6	127,128,129	123	Pole 22-11-045	X	X				
Day 6	130,131,132,133	123	Pole 22-11-093	X					
Day 6	134,135	123	Pole 22-11-049	X					
Day 6	136,137,138	123	Pole 22-11-001		X				
Day 6	139,140,141	123	Pole 22-11-036	X					
Day 6	142,143	123	Pole 22-11-050	X					
Day 6	144,145	123	Pole 22-11-037	X	X				
Day 6	146,147	123	Pole 22-11-038	X	X				
Day 6	148,149,150	123	Pole 22-11-039	X	X				
Day 6	151,152,153	123	Pole 22-11-040						X
Day 6	154,155,156	123	Pole 22-11-034	X	X				
Day 6	157,158,159	123	Pole 22-11-051	X	X				
Day 6	160,161,162,163	123	Pole 22-11-053	X	X				
Day 6	164,165,166,167	123	Pole 22-11-054	X					
Day 6	168,169	123	Pole 22-11-055	X	X				
Day 6	170,171,172	123	Pole 22-11-041	X	X				
Day 6	173,174,175,176	123	Pole 22-11-064	X	X				
Day 6	177,178	123	Pole 22-11-065	X	X				
Day 6	179,180,181	123	Pole 22-11-066	X	X				
Day 6	182,183,184	123	Pole 22-11-067	X	X				
Day 6	185,186,187	123	Pole 22-11-058	X	X				
Day 6	188,189,190	123	Pole 22-11-060	X	X				
Day 6	191,192,193	123	Pole 22-11-061	X	X				
Day 6	194,195,196,197	123	Pole 22-11-082	X	X				
Day 6	198,199,200	123	Pole 22-11-002	X	X				
Day 6	201,202,203	123	Pole 22-11-004	X					
Day 6	204,205	123	Pole 22-11-072	X	X				
Day 6	206,207,208,209	123	Pole 22-11-005	X	X				
Day 6	210,211,212	123	Pole 22-11-080	X	X				
Day 6	213,214	123	Pole 22-11-007	X					
Day 6	215,216,217	123	Pole 22-11-008		X				
Day 6	218,219,220	123	Pole 22-11-006	X					
Day 6	221,222,223,224	123	Pole 22-11-079		X				
Day 6	225,226,227	123	Pole 22-11-009	X	X				
Day 6	228,229,230	123	Pole 22-11-029		X				
Day 6	231,232,233,234	123	Pole 22-11-010	X	X	X			
Day 6	235,236,237	123	Pole 22-11-011		X				
Day 6	238,239,240	123	Pole 22-11-033	X	X				
Day 6	241,242,243	123	Pole 22-11-017	X	X				
Day 6	244,245	123	Pole 22-11-019	X					
Day 6	246,247,248	123	Pole 22-11-030	X	X				
Day 6	249,250,251,252	123	Pole 22-11-018		X				
Day 6	253,254,255,256	123	Pole 22-11-020	X	X				
Day 6	257,258,259,260	123	Pole 22-06-013					X	
Day 6	261,262,263	123	Pole 22-06-056	X					
Day 6	264,265,266	123	Pole 22-06-042	X					
Day 6	267,268,269	123	Pole 22-06-040	X					
Day 6	270,271,272	123	Pole 22-06-016	X					
Day 6	273,274,275,276	123	Pole 22-06-014	X					
Day 6	277,278	123	Pole 22-06-015		X				
Day 6	279,280,281	123	Pole 22-06-112	X	X				
Day 6	282,283,284	123	Pole 22-06-111		X				
Day 7	1,2,3	123	Pole 22-06-041	X					
Day 7	4,5,6,7,8	123	Pole 22-06-081	X	X	X			
Day 7	9,10,11	123	Pole 22-06-021	X	X				
Day 7	12,13,14	123	Pole 22-06-022	X	X				
Day 7	15,16,17,18	123	Pole 22-06-062	X	X				
Day 7	19,20,21	123	Pole 22-06-114	X	X				
Day 7	22,23,24	123	Pole 22-10-067	X	X				
Day 7	25,26,27	123	Pole 22-06-069	X					
Day 7	28,29,30,31	123	Pole 22-10-019	X	X				
Day 7	32,33,34	123	Pole 22-06-082	X	X				
Day 7	35,36,37	123	Pole 22-06-121	X	X				
Day 7	38,39,40	123	Pole 22-06-086	X	X				
Day 7	41,42,43	123	Pole 22-06-089	X	X				
Day 7	49,50,51	123	Pole 22-06-097		X				
Day 7	52,53,54	123	Pole 22-10-042	X	X				
Day 7	55,56,57	123	Pole 22-10-039	X	X				
Day 7	58,59,60	123	Pole 22-10-037	X	X				
Day 7	61,62,63	123	Pole 22-09-001	X					
Day 7	64,65,66	123	Pole 22-09-059	X					
Day 7	67,68,69	123	Pole 22-09-060		X	X			
Day 7	70,71,72	123	Pole 22-10-033	X					
Day 7	73,74,75	123	Pole 22-10-034	X					
Day 7	76,77,78	123	Pole 22-10-035	X					
Day 7		123	Pole 22-10-038	X					
Day 7	79,80,81	123	Pole 22-10-041	X					

File Photo ID	Photo Numbers	Circuit Number	Pole Number	40" Separation	8.5' Encumbrance	Guy & Anchor	Pole Equipment & Pedestal	Low Span	Transfer Needed
Day 7	82,83,84,85	123	Pole 22-10-043	X					
Day 7	86,87,88	123	Pole 22-10-036	X					
Day 7	89,90,91	123	Pole 22-06-134	X					
Day 7	92,93	123	Pole 22-06-059	X					
Day 7	94,95,96	123	Pole 22-06-096						X
Day 7		123	Pole 22-09-003					X	
Day 7	97,98,99	123	Pole 22-09-004						X
Day 7	100,101,102	123	Pole 22-09-005						X
Day 7	103,104,105	123	Pole 22-09-006	X					
Day 7	106,107,108,109	123	Pole 22-09-007	X					
Day 7	110,111,112,113	123	Pole 22-09-010	X					
Day 7	117,118,119	123	Pole 22-01-011	X					
Day 7	114,115,116	123	Pole 22-09-075	X	X				
Day 7	120,121,122	123	Pole 22-09-011	X					
Day 7	123,124,125,126,127	123	Pole 22-09-008	X					
Day 7	128,129,130	123	Pole 22-09-012	X					
Day 7	131,133	123	Pole 29-01-152	X	X				
Day 7	134,135,136	123	Pole 29-01-149	X					
Day 7	137,138,139	123	Pole 22-09-035	X	X				
Day 7	140,141,142	123	Pole 22-09-034	X					
Day 7	143,144,145	123	Pole 22-09-062		X				
Day 7		123	Pole 22-09-038	X				X	
Day 7	146,147,148	123	Pole 29-01-168	X	X				
Day 7	149,150,151	123	Pole 29-01-017		X				
Day 7	152,153,154,155	123	Pole 29-01-155	X					
Day 7	156,157,158	123	Pole 29-01-154	X	X				
Day 7	159,160,161	123	Pole 29-01-156	X					
Day 7	162,163,164	123	Pole 29-01-157	X					
Day 7	165,166	123	Pole 29-01-102	X					
Day 7	167,168,169,170	123	Pole 29-01-020	X					
Day 7	171,172,173	123	Pole 29-01-021	X					
Day 7	174,175,176	123	Pole 29-01-106	X	X				
Day 7	177,178,179,180	123	Pole 29-01-103	X	X	X			
Day 7	181,182,183,184	123	Pole 29-01-019	X					
Day 7	185,186,187,188,189	123	Pole 29-01-026	X					
Day 8	54,55,56,57	123	Pole 29-01-022	X					
Day 8	58,59,60	123	Pole 29-01-018	X					
Day 8	61,62,63,64	123	Pole 29-01-220	X	X				
Day 8	65,66,67	123	Pole 29-02-075	X	X				
Day 8	68,69,70,71	123	Pole 29-01-222	X					
Day 8	72,73,74,75	123	Pole 29-01-221	X					
Day 8	76,77,78	123	Pole 29-02-066	X	X				
Day 8	79,80,81	123	Pole 29-02-070						X
Day 8	82,83,84,85	123	Pole 29-02-069	X	X				
Day 8	86,87,88,89	123	Pole 29-02-068	X	X				
Day 8	90,91,92,93,94	123	Pole 29-02-065	X	X				
Day 8	95,96,97	123	Pole 29-02-102	X	X				
Day 8	98,99,100	123	Pole 29-02-076	X	X				
Day 8	101,102,103,104,105	123	Pole 29-02-099	X	X	X			
Day 8	106,107,108	123	Pole 29-02-084	X	X				
Day 8	109,110,111,112	123	Pole 29-02-085	X	X				
Day 8	113,114,115	123	Pole 29-02-086	X	X				
Day 8	116,117,118,119	123	Pole 29-01-091	X	X	X			
Day 8	120,121,122	123	Pole 29-01-031						X
Day 8	123,124,125	123	Pole 29-01-034	X	X				
Day 8	126,127,128	123	Pole 29-01-032	X	X				
Day 8	129,130,131,152,153	123	Pole 29-01-023	X	X				
Day 8	132,133,134	123	Pole 29-01-125	X	X	X			
Day 8		123	Pole 29-01-126	X					
Day 8	135,136,137	123	Pole 29-01-025	X	X				
Day 8	138,139,140	123	Pole 29-01-100	X	X				
Day 8	141,142,143,144	123	Pole 29-01-101	X	X	X			
Day 8	145,146,147	123	Pole 29-01-227	X	X	X			
Day 8	148,149,150,151	123	Pole 29-01-024	X	X	X			
Day 8	154,156,157	123	Pole 29-01-114	X	X	X			
Day 2	1232, 1233, 1234, 1235, 1236, 1237, 1238	201	Pole 05-07-412	X	X				
Day 3	1300, 1301	201	Pole 05-07-186	X	X				
Day 3	1425, 1426, 1427, 1428	201	Pole 05-07-130	X	X				
Day 2	1269, 1270, 1271, 1272, 1273	201	Pole 05-07-290		X	X			
Day 3	1395, 1396, 1397	201	Pole 05-07-345			X			
Day 2	1265, 1266, 1267, 1268	201	Pole 05-07-286		X				
Day 3	1412, 1413, 1414, 1415	201	Pole 05-03-016		X	X			
Day 3	1436, 1437, 1438, 1439, 1440	201	Pole 05-07-132	X	X	X			
Day 4	1614, 1615, 1616	201	Pole 05-06-036		X				
Day 5	1639, 1640, 1641, 1642	201	Pole 05-10-180				X		
Day 3	1384, 1385, 1386, 1387, 1388	201	Pole 05-07-192		X	X			
Day 4	1617, 1618, 1619, 1620, 1621	201	Pole 05-06-037	X	X				
Day 3	1389, 1390, 1391	201	Pole 05-07-178		X	X			
Day 2	1249, 1250, 1251, 1252, 1253, 1254, 1255	201	Pole 05-07-283		X		X		X
Day 5	1669, 1670, 1671, 1672	201	Pole 05-06-021	X	X				
Day 3	1364, 1365, 1366, 1367	201	Pole 05-07-200						
Day 3	1504, 1505, 1506	201	Pole 05-07-110		X	X			
Day 2	1217, 1218, 1219, 1220, 1221	201	Pole 05-07-257		X				
Day 3	1401, 1402	201	Pole 05-07-153		X				
Day 3	1490, 1491, 1492	201	Pole 05-07-120	X			X		
Day 3	1392, 1393, 1394	201	Pole 05-07-216			X			
Day 3	1368, 1369, 1370, 1371	201	Pole 05-07-193	X	X				
Day 2	1226, 1227, 1228	201	Pole 05-07-223	X	X				

File Photo ID	Photo Numbers	Circuit Number	Pole Number	40" Separation	8.5' Encumbrance	Guy & Anchor	Pole Equipment & Pedestal	Low Span	Transfer Needed
Day 3	1479, 1480, 1481, 1482	201	Pole 05-04-046	X	X	X			
Day 3	1514, 1515, 1516	201	Pole 05-07-114		X				
Day 5	1636, 1637, 1638	201	Pole 05-10-199	X	X				
Day 3	1499, 1500	201	Pole 05-07-108			X			
Day 4	1519, 1520, 1521	201	Pole 05-06-029				X		
Day 4	1568, 1569, 1570, 1571, 1572, 1573, 1574	201	Pole 05-07-126	X	X	X	X		
Day 3	1475, 1476, 1477, 1478	201	Pole 05-04-043	X	X	X			
Day 5	1627, 1628, 1629, 1630	201	Pole 05-10-196			X			
Day 3	1398, 1399, 1400	201	Pole 05-07-300			X			
Day 4	1517, 1518	201	Pole 05-10-189	X	X				
Day 3	1357, 1358, 1359, 1360	201	Pole 05-07-172			X			
Day 3	1493, 1494, 1495, 1496, 1497, 1498	201	Pole 05-07-119		X				
Day 3	1324, 1325, 1326, 1327, 1328	201	Pole 05-07-168	X	X	X			
Day 4	1550, 1551, 1552, 1553	201	Pole 05-07-278		X				
Day 2	1202, 1203, 1204	201	Pole 05-11-388	X	X				
Day 4	1604, 1605, 1606, 1607	201	Pole 05-06-203		X				
Day 3	1483, 1484, 1485, 1486, 1487	201	Pole 05-04-048	X	X	X			
Day 2	1205, 1206, 1207, 1208, 1209	201	Pole 05-11-227	X		X			
Day 2	1289, 1290, 1291	201	Pole 05-10-355	X	X				
Day 2	1194, 1195, 1196, 1197	201	Pole 05-11-224		X				
Day 2	1286, 1287, 1288	201	Pole 05-11-394	X	X				
Day 2	1229, 1230, 1231	201	Pole 05-07-222						X
Day 3	1457, 1458, 1459, 1460	201	Pole 05-04-042	X	X				
Day	1582, 1583, 1584, 1585	201	Pole 05-06-117			X			
Day 3	1469, 1470, 1471	201	Pole 05-04-051	X	X	X			
Day 3	1488, 1489	201	Pole 05-07-121		X				
Day 3	1464, 1465, 1466, 1467, 1468	201	Pole 05-04-050	X	X	X			
Day 3	1329, 1330, 1331, 1332	201	Pole 05-07-169			X			
Day 2	1274, 1275, 1276, 1277, 1279	201	Pole 05-07-291	X	X	X			
Day 2	1292, 1293, 1294, 1295	201	Pole 05-10-356	X	X				
Day 3	1380, 1381, 1382, 1383	201	Pole 05-07-208						
Day 2	1243, 1244, 1245, 1246, 1247, 1248	201	Pole 05-07-327	X	X	X			
Day 5	1676, 1677, 1678, 1679, 1680	201	Pole 05-06-024	X	X				
Day 2	1239, 1240, 1241, 1242	201	Pole 05-07-326						
Day 4	1578, 1579, 1580, 1581	201	Pole 05-06-128	X	X	X			
Day 3	1472, 1473, 1474	201	Pole 05-04-052	X	X				
Day 4	1554, 1555, 1556	201	Pole 05-07-277						X
Day 2	1280, 1281, 1282, 1283, 1284	201	Pole 05-11-228	X	X				
Day 3	1306, 1307, 1308, 1309, 1310, 1311	201	Pole 05-07-261	X	X		X		
Day 2	1261, 1262, 1263, 1264	201	Pole 05-07-285			X			
Day 3	1376, 1377, 1378, 1379	201	Pole 05-07-207		X				
Day 5	1673, 1674, 1675	201	Pole 05-06-022						X
Day 5	1655, 1656, 1657, 1658, 1659, 1660	201	Pole 05-06-027	X	X	X			
Day 3	1312, 1313, 1314, 1315, 1316, 1317, 1318	201	Pole 05-07-166	X	X	X			
Day 4	1608, 1609, 1610	201	Pole 05-06-075			X			
Day 3	1342, 1343, 1344, 1345	201	Pole 05-07-174			X			
Day 3	1346, 1347, 1348, 1349, 1350, 1351	201	Pole 05-07-175			X			
Day 4	1611, 1612, 1613	201	Pole 05-06-077			X			
Day 3	1416, 1417, 1418, 1419	201	Pole 05-03-017		X	X			
Day 3	1441, 1442, 1443, 1444	201	Pole 05-03-020						X
Day 5	1661, 1662, 1663	201	Pole 05-07-294		X	X			
Day 3	1429, 1430, 1431, 1432, 1433, 1434	201	Pole 05-07-131	X	X	X			
Day 5	1651, 1652, 1653, 1654	201	Pole 05-06-008	X	X				
Day 2	1210, 1211, 1212, 1213, 1214, 1215	201	Pole 05-11-366	X	X	X			
Day 2	1222, 1223, 1224, 1225	201	Pole 05-07-259		X				
Day 3	1361, 1362, 1363	201	Pole 05-07-198			X			
Day 4	1526, 1527, 1528	201	Pole 05-06-055			X			
Day 4	1522, 1523, 1524, 1525	201	Pole 05-06-049			X			
Day 4	1532, 1533, 1534	201	Pole 05-06-059				X		
Day 4	1599, 1600, 1601, 1602, 1603	201	Pole 05-06-096	X		X			
Day 4	1594, 1595, 1596, 1597, 1598	201	Pole 05-06-089	X	X				
Day 3	1372, 1373, 1374, 1375	201	Pole 05-07-204			X			
Day 4	1546, 1547, 1548, 1549	201	Pole 05-06-279	X	X				
Day 2	1198, 1199, 1200, 1201	201	Pole 05-11-225	X	X				
Day 3	1333, 1334, 1335, 1336, 1337	201	Pole 05-07-170	X	X				X
Day 5	1647, 1648, 1649, 1650	201	Pole 05-10-176	X					
Day 3	1319, 1320, 1321, 1322, 1323	201	Pole 05-07-165	X		X			
Day 4	1591, 1592, 1593	201	Pole 05-06-061						X
Day 4	1622, 1623, 1624, 1625, 1626	201	Pole 05-06-230	X	X				
Day 2	1256, 1257, 1258, 1259, 1260	201	Pole 05-07-284	X	X				X
Day 3	1404, 1405, 1406, 1407, 1408	201	Pole 05-07-358	X	X				
Day 3	1409, 1410, 1411	201	Pole 05-07-359	X	X				
Day 3	1501, 1502, 1503	201	Pole 05-07-104						X
Day 4	1529, 1530, 1531	201	Pole 05-06-056			X			
Day 4	1541, 1542, 1543, 1544, 1545	201	Pole 05-06-124				X		X
Day 3	1420, 1421, 1422, 1423, 1424	201	Pole 05-07-129	X		X			
Day 4	1586, 1587, 1588, 1589, 1590	201	Pole 05-06-122		X	X			X
Day 3	1453, 1454, 1455, 1456	201	Pole 05-03-003	X	X	X			
Day 3	1461, 1462, 1463	201	Pole 05-04-049	X	X	X			
Day 4	1565, 1566, 1567	201	Pole 05-07-263	X	X				
Day 4	1557, 1558, 1559	201	Pole 05-07-276		X	X			
Day 3	1338, 1339, 1340, 1341	201	Pole 05-07-173			X			X
Day 3	1296, 1297, 1298, 1299	201	Pole 05-07-210	X	X		X		
Day 4	1560, 1561, 1562	201	Pole 05-07-274		X	X			
Day 5	1664, 1665, 1666, 1667, 1668	201	Pole 05-06-020	X	X	X			

File Photo ID	Photo Numbers	Circuit Number	Pole Number	40" Separation	8.5' Encumbrance	Guy & Anchor	Pole Equipment & Pedestal	Low Span	Transfer Needed
Day 4	1535, 1536, 1537, 1538	201	Pole 05-06-060		X				
Day 3	1511, 1512, 1513	201	Pole 05-07-112		X				
Day 3	1507, 1508, 1509, 1510	201	Pole 05-07-111	X	X				
Day 2	1188, 1189, 1190, 1191, 1192, 1193	201	Pole 05-11-221	X		X			X
Day 3	1303, 1304, 1305	201	Pole 05-07-179	X			X		X
Day 3	1352, 1353, 1354, 1355, 1356	201	Pole 05-07-171			X			X
Day 3	1445, 1446, 1447, 1448, 1449, 1450, 1451, 1452	201	Pole 05-03-004	X	X	X			X
Day 4	1575, 1576, 1577	201	Pole 05-06-131	X	X	X			
Day 5	1643, 1644, 1645, 1646	201	Pole 05-10-179	X	X				
Day 1	0855, 0856, 0857, 0858	293	Pole 16-04-014	X	X		X		
Day 1	0801, 0802, 0803	293	Pole 17-05-259	X	X				
Day 2	1080, 1081, 1082, 1083, 1084	293	Pole 09-12-122		X	X			
Day 1	0772, 0773, 0774	293	Pole 17-01-257		X				
Day 2	1085, 1087, 1088, 1089	293	Pole 09-12-174	X	X				
Day 2	1176, 1177, 1178, 1179	293	Pole 10-09-125	X	X	X			
Day 2	1050, 1051, 1052	293	Pole 16-04-038		X	X			
Day 1	0816, 0817, 0818	293	Pole 16-04-090		X	X			
Day 2	0981, 0982, 0983, 0984, 0985, 0986, 0988, 0989	293	Pole 16-04-066	X	X	X			
Day 1	0903, 0904	293	Pole 16-08-080		X				
Day 2	1022, 1023, 1024, 1025	293	Pole 16-04-075	X	X	X			
Day 2	1066, 1067, 1068	293	Pole 16-04-097				X		
Day 1	0868, 0869, 0870, 0871	293	Pole 16-04-055			X			
Day 1	0917, 0918, 0919, 0920	293	Pole 16-08-039	X	X				
Day 1	0754, 0755, 0756, 0757	293	Pole 17-01-066	X	X				
Day 2	0973, 0974, 0975, 0976, 0977, 0978, 0979, 0980	293	Pole 16-04-056	X	X	X			
Day 2	0966, 0967, 0968, 0969	293	Pole 16-04-071	X	X				
Day 2	1090, 1091, 1092, 1093	293	Pole 17-01-067	X	X	X			
Day 1	0812, 0813, 0814, 0815	293	Pole 17-01-163						
Day 1	921	293	Pole 16-08-038	X	X				
Day 2	1038, 1039, 1040, 1041	293	Pole 09-12-171		X	X			
Day 1	0797, 0798, 0799, 0800	293	Pole 16-08-063	X	X				
Day 2	1152, 1153, 1154, 1155	293	Pole 10-09-162	X	X	X			
Day 2	1158, 1159	293	Pole 10-09-159	X	X				
Day 2	1109, 1110	293	Pole 10-09-101		X				
Day 1	0819, 0820, 0821	293	Pole 16-04-091	X	X				
Day 2	1119, 1120, 1121, 1122	293	Pole 10-09-104		X	X			
Day 1	0808, 0809, 0810, 0811	293	Pole 17-05-260	X	X				
Day 2	0957, 0958, 0959, 0960, 0961, 0962	293	Pole 16-04-050	X	X	X			
Day 2	1160, 1161, 1162, 1163	293	Pole 10-09-160	X	X				
Day 2	1097, 1098, 1099, 1100	293	Pole 17-01-291	X	X				
Day 2	1123, 1124, 1125, 1126	293	Pole 10-09-105	X	X	X			
Day 2	1056, 1057, 1058	293	Pole 16-04-105	X	X	X			
Day 1	0770, 0771	293	Pole 17-01-008		X				
Day 2	1062, 1063	293	Pole 09-12-125		X				
Day 2	1008, 1009, 1010, 1011	293	Pole 09-12-128		X	X			
Day 1	0863, 0864, 0865, 0866, 0867	293	Pole 16-04-032	X	X			X	
Day 2	1076, 1077, 1078, 1079	293	Pole 09-12-123	X	X				
Day 2	1012, 1013, 1014, 1015, 1016, 1017	293	Pole 09-12-127	X	X	X			
Day 1	0891, 0892	293	Pole 16-08-030		X				
Day 1	0789, 0790, 0791	293	Pole 17-05-003		X				
Day 2	1094, 1095, 1096	293	Pole 17-01-130	X	X				
Day 2	1101, 1102, 1103, 1104, 1105	293	Pole 10-09-085	X	X	X			
Day 2	0990, 0992, 0992	293	Pole 16-04-067	X	X				
Day 1	0746, 0747, 0748, 0749, 0750	293	Pole 17-01-172	X	X	X			
Day 1	0852, 0853, 0854	293	Pole 16-04-054	X	X				
Day 1	0933, 0934, 0935, 0936, 0937	293	Pole 16-08-032	X	X	X			
Day 1	0792, 0793, 0794, 0795	293	Pole 17-05-002	X	X				
Day 1	0758, 0759, 0760	293	Pole 17-01-065	X	X	X			
Day 2	1064, 1065	293	Pole 16-04-096		X				
Day 2	1106, 1107, 1108	293	Pole 10-09-086		X	X			
Day 1	0929, 0930, 0931, 0932	293	Pole 16-08-033	X	X	X			
Day 2	0993, 0994, 0995, 0996	293	Pole 16-04-068		X	X			
Day 2	1117, 1118	293	Pole 10-09-103		X				
Day 1	0886, 0887	293	Pole 16-04-142						
Day 2	1043, 1044, 1045	293	Pole 09-12-172	X	X				
Day 2	1018, 1019, 1020, 1021	293	Pole 09-12-126			X			
Day 2	1111, 1112, 1113, 1114, 1115, 1116	293	Pole 10-09-102	X	X	X			
Day 1	0751, 0752, 0753	293	Pole 17-01-007	X	X	X			
Day 1	0785, 0786, 0787, 0788	293	Pole 17-05-004	X	X				
Day 2	1130, 1131, 1132	293	Pole 10-09-211		X				
Day 1	0764, 0765, 0766, 0767	293	Pole 17-01-093	X	X				
Day 1	0822, 0823, 0824, 0825	293	Pole 16-08-065	X	X				
Day 1	0888, 0889, 0890	293	Pole 16-08-029	X	X				
Day 1	0922, 0923, 0924, 0925	293	Pole 16-08-035	X		X			
Day 2	1127, 1128, 1129	293	Pole 10-09-106	X	X				
Day 2	1173, 1174, 1175	293	Pole 10-09-124		X		X		
Day 1	0804, 0805, 0806, 0807	293	Pole 17-05-001						
Day 2	1183, 1184, 1185, 1186, 1187	293	Pole 10-09-127	X	X	X			
Day 2	1168, 1169, 1170, 1171	293	Pole 10-09-123	X	X				
Day 2	0997, 0998, 0999, 1000, 1001, 1002	293	Pole 09-12-130		X	X			
Day 2	1059, 1060, 1061	293	Pole 09-12-124			X			
Day 2	1180, 1181, 1182	293	Pole 10-09-126		X	X			
Day 1	0901, 0902	293	Pole 16-08-031		X				
Day 1	0761, 0762	293	Pole 17-01-092	X	X				
Day 2	1032, 1034, 1035, 1036, 1037	293	Pole 09-12-175			X			
Day 1	0878, 0879, 0880, 0881	293	Pole 16-04-069	X	X				
Day 1	0915, 0916	293	Pole 16-08-040	X	X				
Day 2	1053, 1054, 1055	293	Pole 16-04-040						
Day 2	1069, 1070	293	Pole 16-04-100		X				
Day 1	0829, 2830, 0831	293	Pole 16-08-067			X			
Day 2	0953, 0954, 0955, 0956	293	Pole 16-04-028	X		X			
Day 2	0970, 0971, 0972	293	Pole 16-04-033			X			
Day 2	1046, 1047, 1048, 1049	293	Pole 16-04-049	X	X				X

File Photo ID	Photo Numbers	Circuit Number	Pole Number	40" Separation	8.5' Encumbrance	Guy & Anchor	Pole Equipment & Pedestal	Low Span	Transfer Needed
Day 2	1142, 1143, 1144, 1145, 1146	293	Pole 10-09-210		X				
Day 1	0844, 0845, 0846	293	Pole 16-04-017						
Day 2	1156, 1157	293	Pole 10-09-158		X	X			
Day 1	0836, 0837, 0838, 0839	293	Pole 16-04-093	X	X				
Day 1	0832, 0833, 0834, 0835	293	Pole 16-08-068	X	X	X			
Day 2	1148, 1149, 1150, 1151	293	Pole 10-09-121		X	X			
Day 1	0826, 0827, 0828	293	Pole 16-08-066						
Day 1	0893, 0894, 0895, 0896, 0897, 0898, 0899, 0900	293	Pole 16-08-075	X	X	X			
Day 2	0950, 0951, 0952	293	Pole 16-04-082	X	X				
Day 1	0847, 0848, 0849	293	Pole 16-04-016	X					X
Day 2	1135, 1136	293	Pole 17-01-168			X			
Day 1	0882, 0883, 0884, 0885	293	Pole 16-04-076						
Day 1	0850, 0851	293	Pole 16-04-013						X
Day 2	0963, 0964, 0965	293	Pole 16-04-034		X				
Day 2	1137, 1138, 1139, 1140, 1141	293	Pole 10-09-120				X		
Day 2	1026, 1027, 1028	293	Pole 16-04-131			X			
Day 2	1003, 1004, 1005, 1006, 1007	293	Pole 09-12-129A	X	X				
Day 2	1164, 1165, 1166, 1167	293	Pole 10-09-161		X	X			
Day 1	0938, 0939, 0940, 0941, 0942	293	Pole 16-08-110	X	X	X			
Day 1	0859, 0860, 0861, 0862	293	Pole 16-04-015	X	X	X			
Day 2	0947, 0948, 0949	293	Pole 16-04-021				X		
Day 2	1029, 1030, 1031	293	Pole 16-04-048	X	X				
Day 2	1133, 1134	293	Pole 10-09-254	X	X				
Day 1	0926, 0927, 0928	293	Pole 16-08-034	X	X				
Day 2	1071, 1072, 1073, 1074, 1075	293	Pole 09-12-121		X	X			
Day 1	0777, 0778, 0779, 0780, 0781, 0782, 0783	293	Pole 16-04-041			X			
Day 1	0775, 0776	293	Pole 16-04-143						
Day 1	0875, 0876, 0877	293	Pole 16-04-009						
Day 1	0872, 0873, 0874	293	Pole 16-04-011	X	X				
Day 1	0768, 0769	293	Pole 17-01-075	X	X				
Day 1	0943, 0944, 0945, 0946	293	Pole 16-04-019	X	X	X			
Day 1	0905, 0906, 0907, 0908	293	Pole 16-08-081		X	X			
Day 1	0909, 0910, 0911, 0912, 0913	293	Pole 16-08-041						
Day 1	1685, 1686, 1687, 1688	303	Pole 07-04-010				X		
Day 2	1838, 1839, 1840	303	Pole 07-04-065	X	X				
Day 2	1897, 1898, 1899	303	Pole 07-02-081				X		
Day 2	1914, 1915, 1916	303	Pole 07-02-101	X	X				
Day 2	1927, 1928, 1929	303	Pole 07-02-060			X			
Day 2	1833, 1834, 1835	303	Pole 07-03-121	X	X				
Day 1	1754, 1755, 1756	303	Pole 07-08-013	X	X				
Day 2	1812, 1813, 1814, 1815	303	Pole 07-03-113			X			
Day 2	1865, 1866, 1867, 1868	303	Pole 07-03-069	X	X		X		
Day 3	1942, 1943, 1944, 1945	303	Pole 07-02-029	X		X			
Day 3	1973, 1974, 1975	303	Pole 03-10-017	X					
Day 2	1807, 1808, 1809, 1810, 1811	303	Pole 07-03-110	X	X	X			
Day 2	1771, 1772, 1773	303	Pole 07-04-067	X	X				
Day 3	1982, 1983, 1984	303	Pole 03-10-019	X					
Day 2	1905, 1906, 1907	303	Pole 07-02-108	X	X				
Day 1	1707, 1708	303	Pole 07-04-093	X	X				
Day 3	1794, 1795, 1796	303	Pole 07-03-103			X			
Day 3	2010, 2011, 2012, 2013	303	Pole 07-02-001	X	X	X			
Day 2	1829, 1830, 1831, 1832	303	Pole 07-03-119				X		
Day 2	1878, 1879, 1880, 1881	303	Pole 07-03-089	X	X				
Day 2	1882, 1883, 1884	303	Pole 07-02-086	X	X				
Day 2	1820, 1821, 1822, 1823, 1824	303	Pole 07-03-125	X	X				
Day 3	1976, 1977, 1978, 1979, 1980, 1981	303	Pole 03-10-018	X		X			
Day 1	1699, 1700, 1701, 1702	303	Pole 07-04-096	X	X				
Day 2	1917, 1918, 1919	303	Pole 07-02-102	X	X				
Day 1	1681, 1682, 1683, 1684	303	Pole 07-04-133				X		
Day 2	1841, 1842, 1843, 1844	303	Pole 07-03-134		X		X		
Day 2	1816, 1817, 1818, 1819	303	Pole 07-03-050	X	X	X			
Day 2	1908, 1909	303	Pole 07-02-073		X				
Day 1	1696, 1697, 1698	303	Pole 07-04-097	X	X				
Day 2	2007, 2008, 2009	303	Pole 07-02-079	X					
Day 2	1902, 1903, 1904	303	Pole 07-02-107	X	X				
Day 2	1803, 1804, 1805, 1806	303	Pole 07-03-145	X	X				
Day 2	1849, 1850, 1851, 1852, 1853	303	Pole 07-03-136	X	X	X			
Day 1	1731, 1732, 1733	303	Pole 07-04-006				X		
Day 1	1718, 1719, 1720	303	Pole 07-04-254		X				
Day 2	1825, 1826, 1827, 1828	303	Pole 07-03-144	X	X				
Day 2	1860, 1861, 1862, 1863, 1864	303	Pole 07-03-068		X	X			
Day 2	1836, 1837	303	Pole 07-03-124			X			
Day 2	1930, 1931, 1932	303	Pole 07-02-061	X	X				
Day 3	2014, 2015, 2016	303	Pole 07-02-002	X					
Day 3	1964, 1965, 1966	303	Pole 03-10-090	X	X				
Day 2	1874, 1875, 1876, 1877	303	Pole 07-02-126			X			
Day 2	1890, 1891, 1892, 1893, 1894	303	Pole 07-02-084	X	X	X			
Day 2	1857, 1858, 1859	303	Pole 07-03-011	X	X	X			
Day 3	1967, 1968, 1969	303	Pole 03-10-083	X					
Day 1	1739, 1740, 1741, 1742	303	Pole 07-04-258	X	X				
Day 2	1774, 1775, 1776	303	Pole 07-04-068	X	X				

File Photo ID	Photo Numbers	Circuit Number	Pole Number	40" Separation	8.5' Encumbrance	Guy & Anchor	Pole Equipment & Pedestal	Low Span	Transfer Needed
Day 1	1757, 1758, 1759	303	Pole 07-08-016	X	X				
Day 1	1715, 1716, 1717	303	Pole 07-04-005			X			
Day 1	1728, 1729, 1730	303	Pole 07-04-043			X			
Day 3	1970, 1971, 1972	303	Pole 03-10-016	X	X				
Day 2	1785, 1786, 1787, 1788, 1789	303	Pole 07-03-101	X	X				
Day 3	1950, 1951, 1952	303	Pole 07-02-032						
Day 1	1760, 1761, 1762, 1763	303	Pole 07-08-017						X
Day 1	1721, 1722, 1723, 1724	303	Pole 07-04-040	X	X	X			X
Day 1	1725, 1726, 1727	303	Pole 07-04-042						X
Day 2	1777, 1778, 1779, 1780, 1781	303	Pole 07-08-067	X	X	X			
Day 2	1845, 1846, 1847, 1848	303	Pole 07-03-135	X	X	X			
Day 1	1751, 1752, 1753	303	Pole 07-08-189	X	X				
Day 1	1703, 1704, 1705, 1706	303	Pole 07-04-094			X			
Day 1	1712, 1713, 1714	303	Pole 07-04-003	X	X				
Day 2	1924, 1925, 1926	303	Pole 07-02-058	X	X				
Day 2	1854, 1855, 1856	303	Pole 07-03-010	X	X				
Day 3	1953, 1954, 1955, 1956	303	Pole 07-02-033	X	X	X			
Day 3	1988, 1989, 1990, 1991	303	Pole 03-10-085						X
Day 2	1797, 1798, 1799	303	Pole 07-03-105	X	X				
Day 2	1910, 1911, 1912, 1913	303	Pole 07-02-074	X	X				
Day 2	1900, 1901	303	Pole 07-02-116	X					
Day 3	1992, 1993, 1994	303	Pole 03-10-095	X					
Day 3	1939, 1940, 1941	303	Pole 07-02-025	X					
Day 2	1871, 1872, 1873	303	Pole 07-03-097	X	X				
Day 3	2021, 2022, 2023	303	Pole 07-02-005	X					
Day 1	1747, 1748, 1749, 1750	303	Pole 07-08-179	X	X				
Day 2	1790, 1791, 1792, 1793	303	Pole 07-03-173	X	X	X			
Day 1	1691, 1692, 1693, 1694	303	Pole 07-04-100	X	X				
Day 3	1957, 1958, 1959, 1960	303	Pole 07-02-035	X			X		
Day 1	1743, 1744, 1745, 1746	303	Pole 07-08-078	X	X				
Day 2	1782, 1783, 1784	303	Pole 07-04-069	X	X				
Day 2	1885, 1886, 1887, 1888, 1889	303	Pole 07-02-085	X	X	X			
Day	2017, 2018, 2019, 2020	303	Pole 07-02-004	X		X			
Day 3	2000, 2001, 2002, 2003	303	Pole 03-10-094	X	X	X			
Day 2	1768, 1769, 1770	303	Pole 07-04-064						
Day 3	1985, 1986, 1987	303	Pole 03-10-089	X	X				
Day 2	1895, 1896	303	Pole 07-02-082		X				
Day 3	2004, 2005, 2006	303	Pole 03-10-093	X	X				
Day 3	1946, 1947, 1948, 1949	303	Pole 07-02-030	X					
Day 2	1920, 1921, 1922, 1923	303	Pole 07-02-055	X	X	X			
Day 1	1734, 1735, 1736, 1737, 1738	303	Pole 07-04-009	X	X		X		
Day 1	1764, 1765, 1766	303	Pole 07-08-250			X			
Day 2	1800, 1801, 1802	303	Pole 07-03-106		X				
Day 3	1961, 1962, 1963	303	Pole 07-02-076	X		X			
Day 1	1689, 1690	303	Pole 07-04-102	X	X				
Day 2	1869, 1870	303	N		X				

EXHIBIT GLB-6

GENERAL STATUTES OF NORTH CAROLINA

CHAPTER 89C.

ENGINEERING AND LAND SURVEYING

(Through 2015 Session Laws)

Section	Section
89C-1. Short title.	89C-18.1. Licensing of nonresidents.
89C-2. Declarations; prohibitions.	89C-19. Public works; requirements where public safety involved.
89C-3. Definitions.	89C-19.1 Engineer who volunteers during an emergency or disaster; qualified immunity.
89C-4. State Board of Examiners for Engineers and Surveyors; Appointment; terms.	89C-20. Rules of professional conduct.
89C-5. Board members; qualifications	89C-21. Disciplinary action – Reexamination, revocation, suspension, reprimand or civil penalty.
89C-6. Compensation and expenses of Board members.	89C-22. Disciplinary action – Charges; procedures.
89C-7. Vacancies; removal of member.	89C-23. Unlawful to practice engineering or land surveying without licensure; unlawful use of title or terms; penalties; Attorney General to be legal adviser.
89C-8. Organization of the Board; meetings; election of officers.	89C-24. Licensure of corporations and business firms that engage in the practice of engineering or land surveying.
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§ 89C-1. Short title.

This Chapter shall be known and may be cited as "The North Carolina Engineering and Land Surveying Act." (1951, c. 1084, s. 1; 1975, c. 681, s. 1.)

§ 89C-2. Declarations; prohibitions.

In order to safeguard life, health, and property, and to promote the public welfare, the practice of engineering and the practice of land surveying in this State are hereby declared to be subject to regulation in the public interest. It shall be unlawful for any person to practice or to offer to practice engineering or land surveying in this State, as defined in the provisions of this Chapter, or to use in connection with the person's name or otherwise assume or advertise any title or description tending to convey the impression that the person is either a professional engineer or a professional land surveyor, unless the person has been duly licensed. The right to engage in the practice of engineering or land surveying is a personal right, based on the qualifications of the person as evidenced by the person's certificate of licensure, which shall not be transferable. (1921, c. 1, s. 1; C.S., s. 6055(b); 1951, c. 1084, s. 1; 1975, c. 681, s. 1; 1998-118, s. 1.)

§ 89C-3. Definitions.

The following definitions apply in this Chapter:

- (1) Board. - The North Carolina State Board of Examiners for Engineers and Surveyors provided for by this Chapter.
- (1a) Business firm. - A partnership, firm, association, or another organization or group that is not a corporation and is acting as a unit.
- (2) Engineer. - A person who, by reason of special knowledge and use of the mathematical, physical and engineering sciences and the principles and methods of engineering analysis and design, acquired by engineering education and engineering experience, is qualified to practice engineering.

- (3) Engineer intern. - A person who complies with the requirements for education, experience and character, and has passed an examination on the fundamentals of engineering as provided in this Chapter.
- (3a) Inactive licensee. - A licensee who is not engaged in the practice of engineering or land surveying in this State, but renews his or her license as "inactive" as provided in this Chapter.
- (4) Land surveyor intern. - A person who complies with the requirements for education, experience, and character and has passed an examination on the fundamentals of land surveying as provided in this Chapter.
- (5) Person. - Any natural person, firm, partnership, corporation or other legal entity.
- (6) Practice of engineering. -
 - a. Any service or creative work, the adequate performance of which requires engineering education, training, and experience, in the application of special knowledge of the mathematical, physical, and engineering sciences to such services or creative work as consultation, investigation, evaluation, planning, and design of engineering works and systems, planning the use of land and water, engineering surveys, and the observation of construction for the purposes of assuring compliance with drawings and specifications, including the consultation, investigation, evaluation, planning, and design for either private or public use, in connection with any utilities, structures, buildings, machines, equipment, processes, work systems, projects, and industrial or consumer products or equipment of a mechanical, electrical, hydraulic, pneumatic or thermal nature, insofar as they involve safeguarding life, health or property, and including such other professional services as may be necessary to the planning, progress and completion of any engineering services.

A person shall be construed to practice or offer to practice engineering, within the meaning and intent of this Chapter, who practices any branch of the profession of engineering; or who, by verbal claim, sign, advertisement, letterhead, card, or in any other way represents the person to be a professional engineer, or through the use of some other title implies that the person is a professional engineer or that the person is licensed under this Chapter; or who holds the person out as able to perform, or who does perform any engineering service or work not exempted by this Chapter, or any other service designated by the practitioner which is recognized as engineering.
 - b. The term "practice of engineering" shall not be construed to permit the location, description, establishment or reestablishment of property lines or descriptions of land boundaries for conveyance. The term does not include the assessment of an underground storage tank required by applicable rules at closure or change in service unless there has been a discharge or release of the product from the tank.
- (7) Practice of land surveying. -
 - a. Providing professional services such as consultation, investigation, testimony, evaluation, planning, mapping, assembling, and interpreting reliable scientific measurements and information relative to the location, size, shape, or physical features of the earth, improvements on the earth, the space above the earth, or any part of

the earth, whether the gathering of information for the providing of these services is accomplished by conventional ground measurements, by aerial photography, by global positioning via satellites, or by a combination of any of these methods, and the utilization and development of these facts and interpretations into an orderly survey map, plan, report, description, or project. The practice of land surveying includes the following:

1. Locating, relocating, establishing, laying out, or retracing any property line, easement, or boundary of any tract of land;
 2. Locating, relocating, establishing, or laying out the alignment or elevation of any of the fixed works embraced within the practice of professional engineering;
 3. Making any survey for the subdivision of any tract of land, including the topography, alignment and grades of streets and incidental drainage within the subdivision, and the preparation and perpetuation of maps, record plats, field note records, and property descriptions that represent these surveys;
 4. Determining, by the use of the principles of land surveying, the position for any survey monument or reference point, or setting, resetting, or replacing any survey monument or reference point;
 5. Determining the configuration or contour of the earth's surface or the position of fixed objects on the earth's surface by measuring lines and angles and applying the principles of mathematics or photogrammetry;
 6. Providing geodetic surveying which includes surveying for determination of the size and shape of the earth both horizontally and vertically and the precise positioning of points on the earth utilizing angular and linear measurements through spatially oriented spherical geometry; and
 7. Creating, preparing, or modifying electronic or computerized data, including land information systems and geographic information systems relative to the performance of the practice of land surveying.
- b. The term "practice of land surveying" shall not be construed to permit the design or preparation of specifications for (i) major highways; (ii) wastewater systems; (iii) wastewater or industrial waste treatment works; (iv) pumping or lift stations; (v) water supply, treatment, or distribution systems; (vi) streets or storm sewer systems except as incidental to a subdivision.
- (8) Professional engineer. - A person who has been duly licensed as a professional engineer by the Board established by this Chapter.
- (8a) Professional engineer, retired. - A person who has been duly licensed as a professional engineer by the Board and who chooses to relinquish or not to renew a license and who applies to and is approved by the Board after review of record, including any disciplinary action, to be granted the use of the honorific title "Professional Engineer, Retired".
- (9) Professional land surveyor. - A person who, by reason of special knowledge of mathematics, surveying principles and methods, and legal requirements which are acquired by education and/or practical experience, is qualified to

- engage in the practice of land surveying, as attested by the person's licensure as a professional land surveyor by the Board.
- (9a) Professional land surveyor, retired. - A person who has been duly licensed as a professional land surveyor by the Board and who chooses to relinquish or not to renew a license and who applies to and is approved by the Board after review of record, including any disciplinary action, to be granted the use of the honorific title "Professional Land Surveyor, Retired".
- (10) Responsible charge. - Direct control and personal supervision, either of engineering work or of land surveying, as the case may be. (1951, c. 1084, s. 1; 1953, c. 999, s. 1; 1973, c. 449; 1975, c. 681, s. 1; 1993 (Reg. Sess., 1994), c. 671, s. 1; 1996, 2nd Ex. Sess., c. 18, s. 7.10(i); 1998-118, s. 2; 2011-304, s. 1; 2013-98, s. 1.)

§ 89C-4. State Board of Examiners for Engineers and Surveyors; appointment; terms.

A State Board of Examiners for Engineers and Surveyors, whose duty it is to administer the provisions of this Chapter, is created. The Board shall consist of four licensed professional engineers, three licensed professional land surveyors and two public members, who are neither professional engineers nor professional land surveyors. Of the land surveyor members, one and only one may hold dual licenses as a professional land surveyor and professional engineer. All of the members shall be appointed by the Governor. Appointments of the engineer and land surveyor members shall preferably, but not necessarily, be made from a list of nominees submitted by the professional societies for engineers and land surveyors in this State. Each member of the Board shall receive a certificate of appointment from the Governor and shall file with the Secretary of State a written oath or affirmation for the faithful discharge of the duties.

Members of the Board serve for staggered five-year terms, and no member may be appointed for more than two full terms. Members serve until the expiration of their respective terms and until their respective successors are appointed. If a vacancy occurs during a term, the Governor shall appoint a successor from the same classification as the person causing the vacancy to serve for the remainder of the unexpired term. If the vacancy is not filled within 90 days after it occurs, the Board may appoint a provisional member to serve until the appointment by the Governor becomes effective. The provisional member during his tenure has all the powers and duties of a regular member. (1921, c. 1, ss. 3-6; C.S., ss. 6055(d)-6055(g); 1951, c. 1084, s. 1; 1957, c. 1060, s. 1; 1963, c. 843; 1965, c. 940; 1975, c. 681, s. 1; 1979, c. 819, s. 1; 1998-118, s. 3.)

§ 89C-5. Board members; qualifications.

Each engineer member of the Board shall be a resident of North Carolina and shall be a licensed professional engineer engaged in the lawful practice of engineering in North Carolina for at least six years.

Each land surveyor member of the Board shall be a resident of North Carolina and shall be a licensed professional land surveyor engaged in the lawful practice of land surveying in North Carolina for at least six years.

Each public member of the Board shall be a resident of North Carolina. (1921, c. 1, ss. 3-6; C.S., ss. 6055(d)-6055(g); 1951, c. 1084, s. 1; 1957, c. 1060, s. 1; 1963, c. 843; 1965, c. 940; 1975, c. 681, s. 1; 1979, c. 819, s. 2; 1989, c. 108; 1998-118, s. 4.)

§ 89C-6. Compensation and expenses of Board members.

Each member of the Board, when attending to the work of the Board or any of its committees, shall receive as compensation for services the per diem and, in addition, shall be reimbursed for travel expenses and incidentals not exceeding the maximum set forth by law. In addition to per diem allowances, travel and incidentals, the secretary of the Board may, with the

approval of the Board, receive such reasonable additional compensation as is compatible with the actual hours of work required by the duties of the office. (1921, c. 1, ss. 3-6; C.S., ss. 6055(d)-6055(g); 1951, c. 1084, s. 1; 1957, c. 1060, s. 1; 1963, c. 843; 1965, c. 940; 1975, c. 681, s. 1; 1998-118, s. 5.)

§ 89C-7. Vacancies; removal of member.

The Governor may remove any member of the Board for misconduct, incompetency, neglect of duty, or any sufficient cause, in the manner prescribed by law for removal of State officials. Vacancies in the membership of the Board shall be filled for the unexpired term by appointment by the Governor as provided in G.S. 89C-4. (1921, c. 1, ss. 3-6; C.S., ss. 6055(d)-6055(g); 1951, c. 1084, s. 1; 1957, c. 1060, s. 1; 1963, c. 843; 1965, c. 940; 1975, c. 681, s. 1.)

§ 89C-8. Organization of the Board; meetings; election of officers.

The Board shall hold at least two regular meetings each year. Special meetings may be held at such times and upon such notice as the rules and regulations of the Board may provide. The Board shall elect annually from its members a chair, a vice-chair, and a secretary. A quorum of the Board shall consist of not less than five members. The Board shall operate under its rules and regulations supplemented by Robert's Rules of Order. (1921, c. 1, ss. 3-6; C.S., ss. 6055(d)-6055(g); 1951, c. 1084, s. 1; 1957, c. 1060, s. 1; 1963, c. 843; 1965, c. 940; 1975, c. 681, s. 1; 1998-118, s. 6.)

§ 89C-9. Executive director; duties and liabilities.

The Board shall employ an executive director who is not a member of the Board. The executive director shall be a full-time employee of the Board and perform the duties assigned to the director by the secretary subject to the approval of the Board. The executive director shall receive a salary and compensation fixed by the Board. The executive director shall give a surety bond satisfactory to the Board conditioned upon the faithful performance of the director's duties assigned. The premium on the bond shall be a necessary and proper expense of the Board. (1921, c. 1, ss. 3-6; C.S., ss. 6055(d)-6055(g); 1951, c. 1084, s. 1; 1957, c. 1060, s. 1; 1963, c. 843; 1965, c. 940; 1975, c. 681, s. 1; 1998-118, s. 7.)

§ 89C-10. Board powers.

(a) The Board may adopt and amend all rules and rules of procedure as may be reasonably necessary for the proper performance of its duties, the regulation of its procedures, meetings, records, the administration of examinations, and the authority to enforce the rules of professional conduct as may be adopted by the Board pursuant to G.S. 89C-20.

The action by the Board in carrying out any of the powers specified in this section shall be binding upon all persons licensed under this Chapter, including corporations and business firms holding certificates of authorization.

(b) The Board shall adopt and have an official seal, which shall be affixed to each certificate issued.

(c) The Board may in the name of the State apply for relief, by injunction, in the established manner provided in cases of civil procedure, without bond, to enforce the provisions of this Chapter, or to restrain any violation of the provisions of this Chapter. In proceedings for injunctive relief, it shall not be necessary to allege or prove either that an adequate remedy at law does not exist, or that substantial or irreparable damage would result from the continued violation of the provisions of this Chapter. The members of the Board shall not be personally liable under this proceeding.

(d) The Board may subject an applicant for licensure to any examination necessary to determine the applicant's qualifications.

(e) The Board may issue an appropriate certificate of licensure to any applicant who, in the opinion of the Board, has met the requirements of this Chapter.

(f) It shall be the responsibility and duty of the Board to conduct a regular program of investigation concerning all matters within its jurisdiction under the provisions of this Chapter. The investigation of a licensee is confidential until the Board issues a citation to the licensee. The Board may expend its funds for salaries, fees, and per diem expenses, in connection with its investigations, provided that no funds other than per diem expenses shall be paid to any member of the Board in connection with its investigations, nor may any member of the Board give testimony and later sit in deciding on any matter which may directly involve punitive action for the testimony.

(g) The Board may use its funds to establish and conduct instructional programs for persons who are currently licensed to practice engineering or land surveying, as well as refresher courses for persons interested in obtaining adequate instruction or programs of study to qualify them for licensure to practice engineering or land surveying. The Board may expend its funds for these purposes and may not only conduct, sponsor, and arrange for instructional programs, but also may carry out instructional programs through extension courses or other media. The Board may enter into plans or agreements with community colleges, public or private institutions of higher learning, State and county boards of education, or with the governing authority of any industrial education center for the purpose of planning, scheduling or arranging courses, instruction, extension courses, or in assisting in obtaining courses of study or programs in the field of engineering and land surveying. The Board shall encourage the educational institutions in this State to offer courses necessary to complete the educational requirements of this Chapter. For the purpose of carrying out these objectives, the Board may adopt rules as may be necessary for the educational programs, instruction, extension services, or for entering into plans or contracts with persons or educational and industrial institutions.

(h) The Board may license sponsors of continuing professional competency activities who agree to conduct programs in accordance with standards adopted by the Board. Sponsors shall pay a license fee established by the Board, not to exceed two hundred fifty dollars (\$250.00) for licensure under this subsection. The license fee shall accompany the application. Sponsors shall renew their licenses annually on a form provided by the Board.

(i) The Board shall have the power to acquire, hold, rent, encumber, alienate, and otherwise deal with real property in the same manner as a private person or corporation, subject only to approval of the Governor and the Council of State. Collateral pledged by the Board for an encumbrance is limited to the assets, income, and revenues of the Board. (1921, c. 1, ss. 3-6; C.S., ss. 6055(d)-6055(g); 1951, c. 1084, s. 1; 1957, c. 1060, s. 1; 1963, c. 843; 1965, c. 940; 1975, c. 681, s. 1; 1985 (Reg. Sess., 1986), c. 977, s. 16; 1993 (Reg. Sess., 1994), c. 671, s. 8; 1998-118, s. 8; 2003-347, s. 1.)

§ 89C-11. Secretary; duties and liabilities; expenditures.

The secretary of the Board shall receive and account for all moneys derived from the operation of the Board as provided in this Chapter, and shall deposit them in one or more special funds in banks or other financial institutions carrying deposit insurance and authorized to do business in North Carolina. The fund or funds shall be designated as "Fund of the Board of Examiners for Engineers and Surveyors" and shall be drawn against only for the purpose of implementing provisions of this Chapter as herein provided. All expenses certified by the Board as properly and necessarily incurred in the discharge of its duties, including authorized compensation, shall be paid out of this fund on the warrant signed by the secretary of the Board. At no time shall the total of warrants issued exceed the total amount of funds accumulated under this Chapter. The secretary of the Board shall give a surety bond satisfactory to the State Board of Examiners for Engineers and Surveyors, conditioned upon the faithful performance of the duties assigned. The premium on the bond is a proper and necessary

expense of the Board. The secretary of the Board may delegate to the executive director certain routine duties, such as receipt and disbursement of funds in stated amounts by a written authorization, which has the majority approval of the Board. (1921, c. 1, s. 7; C.S., s. 6055(h); 1951, c. 1084, s. 1; 1959, c. 617; 1975, c. 681, s. 1; 1998-118, s. 9; 2011-304, s. 2.)

§ 89C-12. Records and reports of Board; evidence.

The Board shall keep a record of its proceedings and a register of all applicants for licensure, showing for each the date of application, name, age, education, and other qualifications, place of business and place of residence, whether the applicant was rejected or a certificate of licensure granted, and the date licensure was rejected or granted. The books and register of the Board shall be prima facie evidence of all matters recorded by the Board, and a copy duly certified by the secretary of the Board under seal shall be admissible in evidence as if the original were produced. A roster showing the names and places of business and of residence of all licensed professional engineers and all licensed professional land surveyors shall be prepared by the secretary of the Board current to the month of January of each year. On or before the first day of May of each year, the Board shall submit to the Governor a report on its transactions for the preceding year, and shall file with the Secretary of State a copy of the report, together with a complete statement of the receipts and expenditures of the Board attested by the chair and the secretary and a copy of the roster of licensed professional engineers and professional land surveyors. (1921, c. 1, s. 8; C.S., s. 6055(i); 1951, c. 1084, s. 1; 1975, c. 681, s. 1; 1998-118, s. 10; 2000-140, s. 18; 2011-304, s. 3.)

§ 89C-13. General requirements for licensure.

(a) Engineer Applicant. - The following shall be considered as minimum evidence satisfactory to the Board that the applicant is qualified for licensure as a professional engineer:

- (1) To be certified as an engineer intern, an applicant shall (i) pass the fundamentals of engineering examination and make application to the Board, (ii) be of good character and reputation, (iii) submit three character references to the Board, one of whom is a professional engineer, (iv) comply with the requirements of this Chapter, and (v) meet one of the following requirements:
 - a. Education. - Be a graduate of an engineering curriculum or related science curriculum of four years or more, approved by the Board as being of satisfactory standing.
 - b. Education and experience. - Be a graduate of an engineering curriculum or related science curriculum of four years or more, other than curriculums approved by the Board as being of satisfactory standing, or possess equivalent education and engineering experience satisfactory to the Board with a specific record of four or more years of progressive experience on engineering projects of a grade and character satisfactory to the Board.
- (1a) To be licensed as a professional engineer, an applicant shall (i) be of good character and reputation, (ii) submit five character references to the Board, three of whom are professional engineers or individuals acceptable to the Board with personal knowledge of the applicant's engineering experience, (iii) comply with the requirements of this Chapter, and (iv) meet one of the following requirements:
 - a. Licensure by Comity or Endorsement. - A person holding a certificate of licensure to engage in the practice of engineering, on the basis of comparable qualifications, issued to the person by a proper authority of a state, territory, or possession of the United

States, the District of Columbia, or of any foreign country possessing credentials that, based on verifiable evidence, in the opinion of the Board, of a standard not lower than that in effect in this State at the time the certificate was issued, may upon application, be licensed without further examination, except as required to examine the applicant's knowledge of laws, rules, and requirements unique to North Carolina.

- b. E.I. Certificate, Experience, and Examination. - A holder of a certificate of engineer intern and with a specific record of an additional four years or more of progressive experience on engineering projects of a grade and character which indicates to the Board that the applicant may be competent to practice engineering, shall be admitted to the principles and practice of engineering examination. Upon passing the examination, the applicant shall be granted a certificate of licensure to practice professional engineering in this State, provided the applicant is otherwise qualified.
- c. Graduation, Experience, and Examination. - A graduate of an engineering curriculum of four years or more approved by the Board as being of satisfactory standing, shall be admitted to the fundamentals of engineering examination, and with a specific record of an additional four years or more of progressive experience on engineering projects of a grade and character that indicates to the Board that the applicant may be competent to practice engineering, the principles and practice of engineering examination. Upon passing the examinations, the applicant shall be granted a certificate of licensure to practice professional engineering in this State, provided the applicant is otherwise qualified.
- d. Graduation, Experience, and Examination. - A graduate of an engineering or related science curriculum of four years or more, other than the ones approved by the Board as being of satisfactory standing or with an equivalent education and engineering experience satisfactory to the Board shall be admitted to the fundamentals of engineering examination and with a specific record of an additional eight years or more of progressive experience on engineering projects of a grade and character that indicates to the Board that the applicant may be competent to practice engineering, the principles and practice of engineering examination. Upon passing the examinations, the applicant shall be granted a certificate of licensure to practice professional engineering in this State, provided the applicant is otherwise qualified.
- e. Long-Established Practice. - A person with a specific record of 20 years or more of progressive experience on engineering projects of a grade and character which indicates to the Board that the applicant may be competent to practice engineering shall be admitted to the principles and practice of engineering examination. Upon passing the examination, the applicant shall be granted a certificate of licensure to practice professional engineering in this State, provided the applicant is otherwise qualified.
- f. Full-time faculty. - Full-time engineering faculty members who teach in an approved engineering program offering a four-year or more degree approved by the Board, may request and be granted waiver of

the fundamentals of engineering examination. The faculty applicant shall document that the degree meets the Board's requirement. The faculty applicant shall then be admitted to the principles and practice of engineering examination.

- g. Doctoral degree. - A person possessing an earned doctoral degree in engineering from an institution in which the same discipline undergraduate engineering program has been accredited by ABET (EAC) may request and be granted waiver of the fundamentals of engineering examination. The doctoral degree applicant shall document that the degree meets the Board's requirement. The doctoral degree applicant shall then be admitted to the principles and practice of engineering examination.

At its discretion the Board may require an applicant to submit exhibits, drawings, designs, or other tangible evidence of engineering work which the applicant personally accomplished or supervised.

- (2) Repealed by Session Laws 2013-98, s. 2, effective June 12, 2013.

(b) Land Surveyor Applicant. - The evaluation of a land surveyor applicant's qualifications shall involve a consideration of the applicant's education, technical, and land surveying experience, exhibits of land surveying projects with which the applicant has been associated, and recommendations by references. The land surveyor applicant's qualifications may be reviewed at an interview if the Board determines it necessary. Educational credit for institute courses, correspondence courses, or other courses shall be determined by the Board.

The following shall be considered as minimum evidence satisfactory to the Board that the applicant is qualified for licensure as a professional land surveyor:

- (1) To be certified as a land surveyor intern, an applicant shall (i) pass the fundamentals of land surveying examination and make application to the Board, (ii) be of good character and reputation, (iii) submit three character references to the Board, one of whom is a professional land surveyor, (iv) comply with the requirements of this Chapter, and (v) satisfy one of the following requirements related to education and experience:
 - a. Be a graduate of a surveying curriculum of four years or more or other equivalent curriculum in surveying approved by the Board.
 - b. Have rightful possession of an associate degree in surveying technology approved by the Board, a record satisfactory to the Board of four years of progressive practical experience, two years of which shall have been under a practicing professional land surveyor, and have satisfactorily passed a written and oral examination as required by the Board.
 - c. Have graduated from high school or completed a high school equivalency certificate with a record satisfactory to the Board of 10 years of progressive, practical experience, six years of which shall have been under a practicing licensed land surveyor, and have satisfactorily passed any oral and written examinations required by the Board.
- (1a) To be licensed as a professional land surveyor, an applicant shall (i) be of good character and reputation, (ii) submit five character references to the Board, three of whom are professional land surveyors or individuals acceptable to the Board, with personal knowledge of the applicant's land surveying experience, (iii) comply with the requirements of this Chapter, and (iv) meet one of the following requirements:

- a. Rightful possession of a bachelor of science degree in surveying or other equivalent curricula, all approved by the Board and a record satisfactory to the Board of two years or more of progressive practical experience, one year of which shall have been under a practicing professional land surveyor if the applicant has successfully passed the first examination (Fundamentals of Surveying) on or before January 1, 2013, or if the applicant has not successfully passed the first examination on or before January 1, 2013, two years of which shall have been under a practicing professional land surveyor, and satisfactorily passing any oral and written examination required by the Board, all of which shall determine and indicate that the applicant is competent to practice land surveying. Upon passing the first examination and successful completion of the experience required by this subdivision, the applicant may apply to take the second examination (Principles and Practice of Land Surveying). An applicant who passes both examinations and completes the educational and experience requirements of this subdivision shall be granted licensure as a professional land surveyor.
- b. Rightful possession of an associate degree in surveying technology approved by the Board and a record satisfactory to the Board of four years of progressive practical experience, three years of which shall have been under a practicing licensed land surveyor if the applicant has successfully passed the first examination (Fundamentals of Surveying) on or before January 1, 2013, or if the applicant has not successfully passed the first examination on or before January 1, 2013, eight years of progressive practical experience, four years of which shall have been under a practicing professional land surveyor, and satisfactorily passing any written and oral examination required by the Board, all of which shall determine and indicate that the applicant is competent to practice land surveying. If the applicant has not successfully completed the first examination on or before January 1, 2013, the applicant may apply to the Board to take the first examination after obtaining the associate degree and completing four years of practical experience, two years of which shall have been under a practicing professional land surveyor at the first regularly scheduled examination thereafter. Upon passing the first examination and successfully completing the practical experience required under this subdivision, the applicant may apply to the Board to take the second examination (Principles and Practice of Land Surveying). An applicant who passes both examinations and successfully completes the educational and experience requirements of this subdivision shall be granted licensure as a professional land surveyor.
- c. Repealed by Session Laws 1998-118, s. 11.
- d. Graduation from a high school or the completion of a high school equivalency certificate and a record satisfactory to the Board of seven years of progressive practical experience, six years of which shall have been under a practicing licensed land surveyor if the applicant has successfully passed the first examination (Fundamentals of Surveying) on or before January 1, 2013, or if the applicant has not successfully passed the first examination on or before January 1, 2013, 16 years of progressive practical experience,

nine years of which shall have been under a practicing professional land surveyor, and satisfactorily passing any oral and written examinations required by the Board, all of which shall determine and indicate that the candidate is competent to practice land surveying. If the applicant has not successfully passed the first examination on or before January 1, 2013, the applicant may be qualified by the Board to take the first examination upon graduation from high school or the completion of a high school equivalency certificate and successfully completing 10 years of progressive practice experience, six of which shall have been under a practicing licensed land surveyor.

- e. Repealed by Session Laws 1985 (Regular Session, 1986), c. 977, s. 7.
- f. Licensure by Comity or Endorsement. - A person holding a certificate of licensure to engage in the practice of land surveying issued on comparable qualifications from a state, territory, or possession of the United States or the District of Columbia, possessing credentials that, based on verifiable evidence, in the opinion of the Board, of a standard not lower than that in effect in this State at the time the certificate was issued, may upon application, be licensed without further examination, except to take any examinations as the Board requires to determine the applicant's qualifications, but in any event, the applicant shall be required to pass an examination which shall include questions on laws, procedures, and practices pertaining to the practice of land surveying in North Carolina.
- g. A licensed professional engineer who can satisfactorily demonstrate to the Board that the professional engineer's formal academic training in acquiring a degree and field experience in engineering includes land surveying, to the extent necessary to reasonably qualify the applicant in the practice of land surveying, may apply for and may be granted permission to take the principles and practice of land surveying examination and the fundamentals of land surveying examination. Upon satisfactorily passing the examinations, the applicant shall be granted a license to practice land surveying in the State of North Carolina.
- h. Professional Engineers in Land Surveying. - Any person presently licensed to practice professional engineering under this Chapter shall upon application be licensed to practice land surveying, providing a written application is filed with the Board within one year next after June 19, 1975.
- i. Photogrammetrists. - Any person presently practicing photogrammetry with at least seven years of experience in the profession, two or more of which shall have been in responsible charge of photogrammetric mapping projects meeting National Map Accuracy Standards shall, upon application, be licensed to practice land surveying, provided:
 - 1. The applicant submit certified proof of graduation from high school, high school equivalency, or higher degree;
 - 2. The applicant submit proof of employment in responsible charge as a photogrammetrist practicing within the State of North Carolina to include itemized reports detailing methods,

- procedures, amount of applicant's personal involvement and the name, address, and telephone numbers of the client for five projects completed by the applicant with the State. A final map for one of the five projects shall also be submitted;
3. Five references to the applicant's character and quality of work, three of which shall be from professional land surveyors, are submitted to the Board; and
 4. The application is submitted to the Board by July 1, 1999. After July 1, 1999, no photogrammetrist shall be licensed without meeting the same requirements as to education, length of experience, and testing required of all land surveying applicants.
- j. Any person performing activities described in G.S. 89C-3(7)a.2. and 7. with at least seven years of experience in performing mapping science surveys, two or more of which have been in responsible charge of mapping science projects that meet the requirements of 21 NCAC 56.1608, shall, upon application, be licensed to practice surveying in their area of competence (mapping science) provided all of the following requirements are met:
1. The applicant submits certified proof of graduation from high school, high school equivalency, or higher degree.
 2. The applicant submits proof of employment in responsible charge of mapping science projects within the State of North Carolina, including itemized reports detailing methods, procedures, amount of applicant's personal involvement, and the name, address, and telephone numbers of the client for five projects completed by the applicant within the State. The applicant shall also submit a final map, report, or digital product for one of the five projects.
 3. Five references as to the applicant's character and quality of work, three of which shall be from professional land surveyors, are submitted to the Board.
 4. The application is submitted to the Board by July 1, 2014. After July 1, 2014, no individual performing surveys described in 21 NCAC 56.1608 shall be licensed without meeting the same requirements as to education, length of experience, and testing required of all land surveying applications.

(2) Repealed by Session Laws 2013-98, s. 2 effective June 12, 2013.

The Board shall require an applicant to submit exhibits, drawings, plats, or other tangible evidence of land surveying work executed by the applicant under proper supervision and which the applicant has personally accomplished or supervised.

Land surveying encompasses a number of disciplines including geodetic surveying, hydrographic surveying, cadastral surveying, engineering surveying, route surveying, photogrammetric (aerial) surveying, and topographic surveying. A professional land surveyor shall practice only within the surveyor's area of expertise.

The Board shall require an applicant to submit exhibits, drawings, plats, or other tangible evidence of land surveying work executed by the applicant under proper supervision and which the applicant has personally accomplished or supervised. (1921, c. 1, s. 9; C.S., s. 6055(j); 1951, c. 1084, s. 1; 1953, c. 999, s. 2; 1957, c. 1060, ss. 2, 3; 1975, c. 681, s. 1; 1985 (Reg.

Sess., 1986), c. 977, ss. 1-15; 1993 (Reg. Sess., 1994), c. 671, s. 2; 1995, c. 509, s. 36.1; 1998-118, s. 11; 1998-217, s. 41; 2005-296, s. 1; 2011-304, s. 4; 2013-98, s. 2.)

§ 89C-14. Application for licensure; license fees.

(a) Application for licensure as a professional engineer or professional land surveyor shall be on a form prescribed and furnished by the Board. It shall contain statements made under oath, showing the applicant's education and a detailed summary of the applicant's technical and engineering or land surveying experience, and shall include the names and complete mailing addresses of the references, none of whom may be immediate members of the applicant's family or members of the Board.

The Board may accept the certified information on the copy of a current formal certificate of qualifications issued by the National Council of Examiners for Engineering and Surveying in lieu of the same information that is required for the form prescribed and furnished by the Board.

(b) An applicant for licensure who is required to take the written examination shall pay to the Board an application fee not to exceed one hundred dollars (\$100.00). The Board may charge any fee necessary to defray the cost of any required examinations. The fee shall accompany the application. The fee for comity licensure of engineers and land surveyors who hold unexpired certificates in another state or a territory of the United States or in Canada shall be the total current fee as fixed by the Board.

(c) The certification fee for a corporation is the amount set by the Board but shall not exceed one hundred dollars (\$100.00). The fee shall accompany the application. The certification fee for a business firm is the same as the fee for a corporation. The fee for renewal of a certificate of licensure of a corporation is the amount set by the Board but shall not exceed seventy-five dollars (\$75.00). The fee for renewal of a certificate of licensure for a business firm is the same as the renewal fee for a corporation.

(d) Should the Board deny the issuance of a certificate of licensure to any applicant, the unobligated portion of fees paid shall be returned by the Board to the applicant.

(e) A candidate failing an examination may apply, and be considered by the Board, for reexamination at the end of six months. The Board shall make such reexamination charge as is necessary to defray the cost of the examination.

A candidate with a combination of three failures or unexcused absences on an examination shall only be eligible after submitting a new application with appropriate application fee and documented evidence of actions taken by the candidate to enhance the candidate's prospects for passing the exam. A candidate with a combination of three failures or unexcused absences may only be considered by the Board for reexamination at the end of 12 months following the third failure or unexcused absence. After the end of the 12-month period, the applicant may take the examination no more than once every calendar year. (1921, c. 1, s. 9; C.S., s. 6055(j); 1951, c. 1084, s. 1; 1953, c. 999, s. 2; 1957, c. 1060, ss. 2, 3; 1975, c. 681, s. 1; 1981, c. 230; 1983, c. 183, ss. 1, 2; 1993 (Reg. Sess., 1994), c. 671, s. 5; 1996, 2nd Ex. Sess., c. 18, s. 7.10(k); 1998-118, s. 12; 2000-115, s. 1.)

§ 89C-15. Examinations.

(a) The examinations will be held at the times and places as the Board directs. The Board shall determine the passing grade on examinations. All examinations shall be approved by the entire Board.

(b) Examinations will be given as follows:

- (1) Fundamentals of Engineering. - Consists of an examination on the fundamentals of engineering. Passing this examination qualifies the applicant for an engineer intern certificate, provided the applicant has met all other requirements for licensure required by this Chapter.

- (2) Principles and Practice of Engineering. - Consists of an examination on applied engineering. Passing this examination qualifies the applicant for licensure as a professional engineer, provided the applicant has met the other requirements for licensure required by this Chapter.
- (3) Fundamentals of Land Surveying. - Consists of an examination on the fundamentals of land surveying. Passing this examination qualifies the applicant for a land surveyor intern certificate provided the applicant has met all other requirements for certification required by this Chapter.
- (4) Principles and Practice of Land Surveying. - Consists of an examination on the applied disciplines of land surveying and an examination on requirements specific to the practice of land surveying in North Carolina. Passing each of these examinations qualifies the applicant for a professional land surveyor certificate provided the applicant has met all other requirements for certification required by this Chapter. (1975, c. 681, s. 1; 1998-118, s. 13; 2013-98, s. 3.)

§ 89C-16. Certificates of licensure; effect; seals.

(a) The Board shall issue to any applicant, who, in the opinion of the Board, has met the requirements of this Chapter, a certificate of licensure giving the licensee proper authority to practice the profession in this State. The certificate of licensure for a professional engineer shall carry the designation "professional engineer," and for a land surveyor, "professional land surveyor," shall give the full name of the licensee with the Board designated licensure number and shall be signed by the chair and the secretary under the seal of the Board.

(b) This certificate shall be prima facie evidence that the person named on the certificate is entitled to all rights, privileges and responsibilities of a professional engineer or a professional land surveyor, while the certificate of licensure remains unrevoked or unexpired.

(c) Each licensee shall upon licensure obtain a seal of a design authorized by the Board bearing the licensee's name, license number, and the legend, "professional engineer," or "professional land surveyor." Final drawings, specifications, plans and reports prepared by a licensee shall, when issued, be certified and stamped with the seal or facsimile of the seal unless the licensee is exempt under the provisions of G.S. 89C-25(7). It shall be unlawful for a licensee to affix, or permit the licensee's seal and signature or facsimile of the seal and signature to be affixed to any drawings, specifications, plans or reports after the expiration of a certificate or for the purpose of aiding or abetting any other person to evade or attempt to evade any provision of this Chapter. A professional engineer practicing land surveying shall use the licensee's land surveyor seal. (1921, c. 1, s. 11; C.S., s. 6055(m); 1951, c. 1084, s. 1; 1957, c. 1060, s. 6; 1975, c. 681, s. 1; 1998-118, s. 14.)

§ 89C-17. Expirations and renewals of certificates.

Certificates for licensure of corporations and business firms that engage in the practice of engineering or land surveying shall expire on the last day of the month of June following their issuance or renewal and shall become invalid on that date unless renewed. All other certificates for licensure shall expire on the last day of the month of December next following their issuance or renewal, and shall become invalid on that date unless renewed. When necessary to protect the public health, safety, or welfare, the Board shall require any evidence necessary to establish the continuing competency of engineers and land surveyors as a condition of renewal of licenses. When the Board is satisfied as to the continuing competency of an applicant, it shall issue a renewal of the certificate upon payment by the applicant of a fee fixed by the Board but not to exceed seventy-five dollars (\$75.00). The secretary of the Board shall notify by mail every person licensed under this Chapter of the date of expiration of the certificate, the amount of the fee required for its renewal for one year, and any requirement as to evidence of continued

competency. The notice shall be mailed at least one month in advance of the expiration date of the certificate. Renewal shall be effected at any time during the month immediately following the month of expiration, by payment to the secretary of the Board of a renewal fee, as determined by the Board, which shall not exceed seventy-five dollars (\$75.00). Failure on the part of any licensee to renew the certificate annually in the month immediately following the month of expiration, as required above, shall deprive the licensee of the right to practice until reinstatement of the license. The license may be reinstated at anytime during the first 12 months immediately following the date the license became invalid by payment of a reinstatement fee of one hundred dollars (\$100.00) in addition to the established renewal fee. Failure of a licensee to reinstate the license during the first 12 months immediately following the date the license became invalid shall require the individual, prior to resuming practice in North Carolina, to submit an application on the prescribed form, and to meet all other requirements for licensure as set forth in Chapter 89C. The secretary of the Board is instructed to remove from the official roster of engineers and land surveyors the names of all licensees who have not effected their renewal by the first day of the month immediately following the renewal period. The Board may adopt rules to provide for renewals in distress or hardship cases due to military service, prolonged illness, or prolonged absence from the State, where the applicant for renewal demonstrates to the Board that the applicant has maintained active knowledge and professional status as an engineer or land surveyor, as the case may be. It shall be the responsibility of each licensee to inform the Board promptly concerning change in address. A licensee may request and be granted inactive status. No inactive licensee may practice in this State unless otherwise exempted in this Chapter. A licensee granted inactive status shall pay annual renewal fees but shall not be subject to annual continuing professional competency requirements. A licensee granted inactive status may return to active status by meeting all requirements of the Board, including demonstration of continuing professional competency as a condition of reinstatement. (1921, c. 1, s. 9; C.S., s. 6055(k); 1951, c. 1084, s. 1; 1953, c. 1041, s. 9; 1957, c. 1060, s. 4; 1973, c. 1321; c. 1331, s. 3; 1975, c. 681, s. 1; 1979, c. 819, ss. 3, 4; 1985, c. 373; 1998-118, s. 15; 2000-115, s. 2; 2003-347, s. 3.)

§ 89C-18. Duplicate certificates.

The Board may issue a duplicate certificate of licensure or certificate of authorization to replace any certificate that has been lost, destroyed, or mutilated and may charge a fee of up to twenty-five dollars (\$25.00) for issuing the certificate. (1921, c. 1, s. 10; C.S., s. 6055(l); 1939, c. 218, s. 2; 1951, c. 1084, s. 1; 1953, c. 1041, s. 10; 1957, c. 1060, s. 5; 1973, c. 1331, s. 3; 1975, c. 681, s. 1; 1993 (Reg. Sess., 1994), c. 671, s. 3; 1998-118, s. 16.)

§ 89C-18.1. Licensing of nonresidents.

- (a) Definitions. - The following definitions apply in this section:
- (1) Delinquent income tax debt. - The amount of income tax due as stated in a final notice of assessment issued to a taxpayer by the Secretary of Revenue when the taxpayer no longer has the right to contest the amount.
 - (2) Foreign corporation. - Defined in G.S. 55-1-40.
 - (3) Foreign entity. - A foreign corporation, a foreign limited liability company, or a foreign partnership.
 - (4) Foreign limited liability company. - Has the same meaning as the term "foreign LLC" in G.S. 57D-1-03.
 - (5) Foreign partnership. - Either of the following that does not have a permanent place of business in this State:
 - a. A foreign limited partnership as defined in G.S. 59-102.
 - b. A general partnership formed under the laws of a jurisdiction other than this State.

(b) Licensing. - The Board shall not renew a certificate of licensure for a foreign corporation unless the corporation has obtained a certificate of authority from the Secretary of State pursuant to Article 15 of Chapter 55 of the General Statutes. The Board shall not renew a certificate of licensure for a foreign limited liability company unless the company has obtained a certificate of authority from the Secretary of State pursuant to Article 7 of Chapter 57D of the General Statutes.

(c) Information. - Upon request, the Board shall provide the Secretary of Revenue on an annual basis the name, address, and tax identification number of every nonresident individual and foreign entity licensed by the Board. The information shall be provided in the format required by the Secretary of Revenue.

(d) Delinquents. - If the Secretary of Revenue determines that any nonresident individual or foreign corporation licensed by the Board, a member of any foreign limited liability company licensed by the Board, or a partner in any foreign partnership licensed by the Board, owes a delinquent income tax debt, the Secretary of Revenue may notify the Board of these nonresident individuals and foreign entities and instruct the Board not to renew their certificates of licensure. The Board shall not renew the certificate of licensure of such a nonresident individual or foreign entity identified by the Secretary of Revenue unless the Board receives a written statement from the Secretary that the debt either has been paid or is being paid pursuant to an installment agreement. (1998-162, ss. 7, 13; 2013-157, s. 23.)

§ 89C-19. Public works; requirements where public safety involved.

This State and its political subdivisions such as counties, cities, towns, or other political entities or legally constituted boards, commissions, public utility companies, or authorities, or officials, or employees of these entities shall not engage in the practice of engineering or land surveying involving either public or private property where the safety of the public is directly involved without the project being under the direct supervision of a professional engineer for engineering projects, or a professional land surveyor for land surveying projects, as provided for the practice of the respective professions by this Chapter.

An official or employee of the State or any political subdivision specified in this section, holding the positions set out in this section as of June 19, 1975, shall be exempt from the provisions of this section so long as such official or employee is engaged in substantially the same type of work as is involved in the present position.

Nothing in this section shall be construed to prohibit inspection, maintenance and service work done by employees of the State of North Carolina, any political subdivision of the State, or any municipality including construction, installation, servicing, and maintenance by regular full-time employees of, secondary roads and drawings incidental to work on secondary roads, streets, street lighting, traffic-control signals, police and fire alarm systems, waterworks, steam, electric and sewage treatment and disposal plants, the services of superintendents, inspectors or foremen regularly employed by the State of North Carolina or any political subdivision of the State, or municipal corporation.

The provisions in this section shall not be construed to alter or modify the requirements of Article 1 of Chapter 133 of the General Statutes. (1975, c. 681, s. 1; 1998-118, s. 17; 2014-120, s. 11(b).)

§ 89C-19.1. Engineer who volunteers during an emergency or disaster; qualified immunity.

(a) A professional engineer who voluntarily, without compensation, provides structural, electrical, mechanical, or other engineering services at the scene of a declared disaster or emergency, declared under federal law or in accordance with the provisions of Article 1A of Chapter 166A of the General Statutes, at the request of a public official, law enforcement official, public safety official, or building inspection official, acting in an official capacity, shall

not be liable for any personal injury, wrongful death, property damage, or other loss caused by the professional engineer's acts or omissions in the performance of the engineering services.

(b) The immunity provided in subsection (a) of this section applies only to an engineering service:

- (1) For any structure, building, piping, or other engineered system, either publicly or privately owned.
- (2) That occurs within 45 days after the declaration of the emergency or disaster, unless the 45-day immunity period is extended by an executive order issued by the Governor under the Governor's emergency executive powers.

(c) The immunity provided in subsection (a) of this section does not apply if it is determined that the personal injury, wrongful death, property damage, or other loss was caused by the gross negligence, wanton conduct, or intentional wrongdoing of the professional engineer, or arose out of the operation of a motor vehicle.

(d) As used in this section:

- (1) "Building inspection official" means any appointed or elected federal, State, or local official with overall executive responsibility to coordinate building inspection in the jurisdiction in which the emergency or disaster is declared.
- (2) "Law enforcement official" means any appointed or elected federal, State, or local official with overall executive responsibility to coordinate law enforcement in the jurisdiction in which the emergency or disaster is declared.
- (3) "Public official" means any federal, State, or locally elected official with overall executive responsibility in the jurisdiction in which the emergency or disaster is declared.
- (4) "Public safety official" means any appointed or elected federal, State, or local official with overall executive responsibility to coordinate public safety in the jurisdiction in which the emergency or disaster is declared. (1995, c. 416, s. 1; 2012-12, s. 2(q).)

§ 89C-20. Rules of professional conduct.

In the interest of protecting the safety, health, and welfare of the public, the Board shall adopt rules of professional conduct applicable to the practice of engineering and land surveying. These rules, when adopted, shall be construed to be a reasonable exercise of the police power vested in the Board of Examiners for Engineers and Land Surveyors. Every person licensed by the Board shall subscribe to and observe the adopted rules as the standard of professional conduct for the practice of engineering and land surveying and shall cooperate fully with the Board in the course of any investigation. In the case of violation of the rules of professional conduct, the Board shall proceed in accordance with G.S. 89C-22. (1975, c. 681, s. 1; 1987, c. 827, s. 73; 1998-118, s. 18.)

§ 89C-21. Disciplinary action - Reexamination, revocation, suspension, reprimand, or civil penalty.

(a) The Board may reprimand the licensee, suspend, refuse to renew, refuse to reinstate, or revoke the certificate of licensure, require additional education or, as appropriate, require reexamination, for any engineer or land surveyor, who is found guilty of any of the following:

- (1) Fraud or deceit in obtaining or renewing a certificate of licensure or certificate of authorization.
- (2) Gross negligence, incompetence, or misconduct in the practice of the profession.

- (3) Conviction of, or entry of a plea of guilty or nolo contendere to, any crime that is a felony, whether or not related to the practice of engineering or surveying; conviction of, or entry of a plea of guilty or nolo contendere to, any crime, whether a felony, misdemeanor, or otherwise, where an essential element of the crime is dishonesty or when the crime is directly related to the practice of engineering or surveying; or conviction of, or entry of a plea of guilty or nolo contendere, of any crime involving moral turpitude.
- (4) Violation of any provisions of this Chapter, the Rules of Professional Conduct, or any rules as adopted by the Board.
- (5) Being declared insane or incompetent by a court of competent jurisdiction and having not later been lawfully declared sane or competent.
- (6) Professional incompetence. In the event the Board finds that a certificate holder is incompetent the Board may, in its discretion, require oral or written examinations, or other indication of the certificate holder's fitness to practice engineering or land surveying and suspend the license during any such period.

(b) The Board may (i) revoke a certificate of authorization, or (ii) to suspend a certificate of authorization for a period of time not exceeding two years, of any corporation or business firm where one or more of its officers or directors have committed any act or have been guilty of any conduct which would authorize a revocation or suspension of their certificates of licensure under the provision of this section.

(c) The Board may levy a civil penalty not in excess of five thousand dollars (\$5,000) for any engineer or not in excess of two thousand dollars (\$2,000) for any land surveyor who violates any of the provisions of subdivisions (1) through (4) of subsection (a) of this section. The clear proceeds of all civil penalties collected by the Board, including civil penalties collected pursuant to G.S. 89C-22(c), shall be remitted to the Civil Penalty and Forfeiture Fund in accordance with G.S. 115C-457.2.

(d) Before imposing and assessing a civil penalty and fixing the amount, the Board shall, as a part of its deliberation, take into consideration the following factors:

- (1) The nature, gravity, and persistence of the particular violations;
- (2) The appropriateness of the imposition of a civil penalty when considered alone or in combination with other punishment;
- (3) Whether the violation(s) were done willfully and maliciously; and
- (4) Any other factors which would tend to either mitigate or aggravate the violation(s) found to exist. (1921, c. 1, s. 10; C.S., s. 6055(l); 1939, c. 218, s. 2; 1951, c. 1084, s. 1; 1953, c. 1041, s. 10; 1957, c. 1060, s. 5; 1973, c. 1331, s. 3; 1975, c. 681, s. 1; 1989, c. 669, s. 1; 1993 (Reg. Sess., 1994), c. 671, s. 6; 1998-118, s. 19; 1998-215, s. 134; 2003-347, s. 2; 2011-304, s. 5.)

§ 89C-22. Disciplinary action - Charges; procedure.

(a) Any person may prefer charges of fraud, deceit, gross negligence, incompetence, misconduct, or violations of this Chapter, the rules of professional conduct, or any rules adopted by the Board against any Board licensee. The charges shall be in writing and shall be sworn to by the person or persons making them and shall be filed with the Board.

(b) All charges, unless dismissed by the Board as unfounded or trivial or unless settled informally, shall be heard by the Board as provided under the requirements of Chapter 150B of the General Statutes.

(c) If, after a hearing, a majority of the Board votes in favor of sustaining the charges, the Board shall reprimand, levy a civil penalty, suspend, refuse to renew, refuse to reinstate, or revoke the licensee's certificate, require additional education or, as appropriate, require reexamination.

(d) A licensee who is aggrieved by a final decision of the Board may appeal for judicial review as provided by Article 4 of Chapter 150B.

(e) The Board may, upon petition of an individual or an entity whose certificate has been revoked, for sufficient reasons as it may determine, reissue a certificate of licensure or authorization, provided that a majority of the members of the Board vote in favor of such issuance. (1921, c. 1, s. 10; C.S., s. 6055(l); 1939, c. 218, s. 2; 1951, c. 1084, s. 1; 1953, c. 1041, s. 10; 1957, c. 1060, s. 5; 1973, c. 1331, s. 3; 1975, c. 681, s. 1; 1981, c. 789; 1989, c. 669, s. 2; 1993 (Reg. Sess., 1994), c. 671, s. 7; 1998-118, s. 20; 2011-304, s. 6.)

§ 89C-23. Unlawful to practice engineering or land surveying without licensure; unlawful use of title or terms; penalties; Attorney General to be legal adviser.

Any person who shall practice, or offer to practice, engineering or land surveying in this State without first being licensed in accordance with the provisions of this Chapter, or any person, firm, partnership, organization, association, corporation, or other entity using or employing the words "engineer" or "engineering" or "professional engineer" or "professional engineering" or "land surveyor" or "land surveying," or any modification or derivative of those words in its name or form of business or activity except as licensed under this Chapter or in pursuit of activities exempted by this Chapter, or any person presenting or attempting to use the certificate of licensure or the seal of another, or any person who shall give any false or forged evidence of any kind to the Board or to any member of the Board in obtaining or attempting to obtain a certificate of licensure, or any person who shall falsely impersonate any other licensee of like or different name, or any person who shall attempt to use an expired or revoked or nonexistent certificate of licensure, or who shall practice or offer to practice when not qualified, or any person who falsely claims that the person is registered under this Chapter, or any person who shall violate any of the provisions of this Chapter, in addition to injunctive procedures set out hereinbefore, shall be guilty of a Class 2 misdemeanor. In no event shall there be representation of or holding out to the public of any engineering expertise by unlicensed persons. It shall be the duty of all duly constituted officers of the State and all political subdivisions of the State to enforce the provisions of this Chapter and to prosecute any persons violating them.

The Attorney General of the State or an assistant shall act as legal adviser to the Board and render any legal assistance necessary to carry out the provisions of this Chapter. The Board may employ counsel and necessary assistance to aid in the enforcement of this Chapter, and the compensation and expenses for the assistance shall be paid from funds of the Board. (1921, c. 1, s. 12; C.S., s. 6055(n); 1951, c. 1084, s. 1; 1975, c. 681, s. 1; 1993, c. 539, s. 612; 1994, Ex. Sess., c. 24, s. 14(c); 1998-118, s. 21.)

§ 89C-24. Licensure of corporations and business firms that engage in the practice of engineering or land surveying.

A corporation or business firm may not engage in the practice of engineering or land surveying in this State unless it is licensed by the Board and has paid an application fee established by the Board in an amount not to exceed one hundred dollars (\$100.00). A corporation or business firm is subject to the same duties and responsibilities as an individual licensee. Licensure of a corporation or business firm does not affect the requirement that all engineering or land surveying work done by the corporation or business firm be performed by or under the responsible charge of individual registrants, nor does it relieve the individual registrants within a corporation or business firm of their design and supervision responsibilities. The Board may adopt rules regulating the operation of offices and places of business of corporations and business firms licensed under this section to ensure that professional engineering and land surveying services are performed under the supervision of licensed professional engineers and land surveyors.

This section applies to every corporation that is engaged in the practice of engineering or land surveying, regardless of when it was incorporated. A corporation that is not exempt from Chapter 55B of the General Statutes by application of G.S. 55B-15 must be incorporated under that Chapter. (1921, c. 1, s. 14; C.S., s. 6055(p); 1951, c. 1084, s. 1; 1969, c. 718, s. 18; 1975, c. 681, s. 1; 1993 (Reg. Sess., 1994), c. 671, s. 4; 1998-118, s. 22; 2000-115, s. 3.)

§ 89C-25. Limitations on application of Chapter.

This Chapter shall not prevent the following activities:

- (1) The practice of architecture as defined in Chapter 83A of the General Statutes, landscape architecture as defined in Chapter 89A of the General Statutes, or contracting as defined in Articles 1, 2, 4 and 5 of Chapter 87 of the General Statutes.
- (2) Repealed by Session Laws 2011-304, s. 7, effective June 26, 2011.
- (3) Repealed by Session Laws 2011-304, s. 7, effective June 26, 2011.
- (4) Engaging in engineering or land surveying as an employee or assistant under the responsible charge of a professional engineer or professional land surveyor.
- (5) The practice of professional engineering or land surveying by any person not a resident of, and having no established place of business in this State, as a consulting associate of a professional engineer or professional land surveyor licensed under the provisions of this Chapter; provided, the nonresident is qualified for performing the professional service in the person's own state or country.
- (6) Practice by members of the Armed Forces of the United States; employees of the government of the United States while engaged in the practice of engineering or land surveying solely for the government on government-owned works and projects; or practice by those employees of the Natural Resources Conservation Service, county employees, or employees of the Soil and Water Conservation Districts who have federal engineering job approval authority that involves the planning, designing, or implementation of best management practices on agricultural lands.
- (7a) The engineering or surveying activities of a person as defined by G.S.89C-3(5) who is engaged in manufacturing, processing, producing, or transmitting and delivering a product, and which activities are reasonably necessary and connected with the primary services performed by individuals regularly employed in the ordinary course of business by the person, provided that the engineering or surveying activity is not a holding out or an offer to the public of engineering or surveying services, as prohibited by this Chapter. The engineering and surveying services may not be offered, performed, or rendered independently from the primary services rendered by the person. For purposes of this subdivision, "activities reasonably necessary and connected with the primary service" include the following:
 - a. Installation or servicing of the person's product by employees of the person conducted outside the premises of the person's business.
 - b. Design, acquisition, installation, or maintenance of machinery, equipment, or apparatus incidental to the manufacture or installation of the product performed by employees of the person upon property owned, leased, or used by the person.
 - c. Research and development performed in connection with the manufacturing, processing, or production of the person's product by employees of the person.

Engineering or surveying activities performed pursuant to this subdivision, where the safety of the public is directly involved, shall be under the responsible charge of a licensed professional engineer or licensed professional surveyor.

- (8) The (i) preparation of fire sprinkler planning and design drawings by a fire sprinkler contractor licensed under Article 2 of Chapter 87 of the General Statutes, or (ii) the performance of internal engineering or survey work by a manufacturing or communications common carrier company, or by a research and development company, or by employees of those corporations provided that the work is in connection with, or incidental to products of, or nonengineering services rendered by those corporations or their affiliates.
- (9) The routine maintenance or servicing of machinery, equipment, facilities or structures, the work of mechanics in the performance of their established functions, or the inspection or supervision of construction by a foreman, superintendent, or agent of the architect or professional engineer, or services of an operational nature performed by an employee of a laboratory, a manufacturing plant, a public service corporation, or governmental operation.
- (10) The design of land application irrigation systems for an animal waste management plan, required by G.S. 143-215.10C, by a designer who exhibits, by at least three years of relevant experience, proficiency in soil science and basic hydraulics, and who is thereby listed as an Irrigation Design Technical Specialist by the North Carolina Soil and Water Conservation Commission. (1921, c. 1, s. 13; C.S., s. 6055(o); 1951, c. 1084, s. 1; 1975, c. 681, s. 1; 1995, c. 146, s. 1; 1995 (Reg. Sess., 1996), c. 742, s. 35; 1997-454, s. 1; 1998-118, s. 23; 2007-536, s. 1; 2011-183, s. 53; 2011-304, s. 7; 2014-120, s. 11(a).)

§ 89C-25.1. Supervision of unlicensed individuals by licensed person.

In all circumstances in which unlicensed individuals are permitted under this Chapter to perform engineering or land surveying work, or both, under the supervision of a licensed engineer, land surveyor, or both, the Board may by regulation establish a reasonable limit on the number of unlicensed individuals which a licensee of the Board may directly or personally supervise at one time. (1979, c. 819, s. 5; 1998-118, s. 24.)

§ 89C-25.2. Program of licensure by discipline.

The Board shall submit to the legislative committees of reference by July 1, 1981, a program of licensure by discipline and an analysis of the costs and merits thereof in order to permit the General Assembly to make a decision on the establishment of such a program. The "committees of reference" shall be the Senate and House Committees on State Government respectively or such other committees as the respective presiding officers may determine. (1979, c. 819, s. 5.)

§ 89C-26: Repealed by Session Laws 1997-309, s. 10.

§ 89C-27. Invalid sections; severability.

If any of the provisions of this Chapter, or if any rule, regulation or order thereunder, or if the application of such provision to any person or circumstance shall be held invalid, the remainder of this Chapter and the application of such provision of this Chapter or rule, regulation or order to persons or circumstances, other than those as to which it is held valid, shall not be affected thereby. (1975, c. 681, s. 1.)

§ 89C-28. Existing licensure not affected.

Nothing in this Chapter shall be construed as affecting the status of licensure of any professional engineer or land surveyor who is rightfully in possession of a certificate of licensure duly issued by the Board and valid as of July 1, 1975. (1951, c. 1084, s. 1; 1959, c. 1236, s. 2; 1975, c. 681, s. 1; 1998-118, s. 25.)

EXHIBIT GLB-7

STATE OF NORTH CAROLINA
UTILITIES COMMISSION
RALEIGH
DOCKET NO. EC-23. SUB 50

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

In the Matter of: :

BLUE RIDGE ELECTRIC :

MEMBERSHIP CORPORATION, :

:

Petitioner, :

:

vs. :

:

CHARTER COMMUNICATIONS :

PROPERTIES, LLC, :

:

Respondent. :

- - -

30(b)(6) DEPOSITION OF NESTOR MARTIN
(Taken by the Petitioner)
Charlotte, North Carolina
October 4, 2017

Reported by: Jackie Johnson Milam
Court Reporter
Notary Public

1 the witness in your speaking objections.

2 MR. GEORGE: That's not even remotely what
3 I'm doing.

4 You're submitting this as an exhibit, and
5 I'd like you to tell me how this exhibit connects to
6 the topics. You've made an attempt to do that.

7 I'm just saying, as you ask your question,
8 I may -- we may need clarity as to what testimony
9 you're trying to elicit from Mr. Martin, whether it's
10 from his personal experience or whether it's on
11 behalf of the company. We'll take it on a
12 question-by-question basis.

13 MR. TILLEY: You're free to object to form.

14 BY MR. TILLEY:

15 Q. Mr. Martin, turning your attention back to your
16 previous hearing testimony.

17 Do you recall agreeing that it is reasonable to
18 require Time Warner Cable to comply with the NESC when
19 making attachments to cooperatives' poles?

20 A. Yes.

21 Q. Would you also agree that it is correct and
22 reasonable to require Charter to comply with the NESC
23 when making attachments to cooperatives' poles?

24 A. Yes.

25 Q. Do you recall testifying that it is reasonable to

1 Manual discussed in your previous testimony apply to
2 Charter in this case?

3 MR. GEORGE: Objection to form.

4 THE WITNESS: It may not apply at this time.

5 BY MR. TILLEY:

6 Q. Do you know?

7 A. I'm not sure, but it may not apply.

8 Q. Since your testimony in June, have you gone back
9 and reviewed Time Warner Cable's Safety Practices
10 Manual?

11 A. I have not.

12 Q. Do you know if Charter has its own Safety
13 Practices Manual?

14 A. No, I do not know.

15 Q. Have you ever reviewed a Safety Practices Manual
16 for Charter?

17 A. I have not.

18 Q. During your testimony, I recall that you said
19 that Time Warner Cable does not have a separate program
20 to inspect its aerial facilities under NESC Rule 214; do
21 you recall that?

22 A. Yes.

23 Q. And you testified that Time Warner Cable
24 employees generally note violations, when they come
25 across them, and fix them in the regular course of their

1 work; do you recall that?

2 A. Yes, I do.

3 Q. But there's no independent or no employee who is
4 assigned responsibility to ride Time Warner's lines or
5 facilities to inspect them for safety issues; do you
6 recall that?

7 A. I do.

8 Q. With respect to Charter, does Charter have a
9 separate program to inspect its lines or aerial
10 facilities under NESC Rule 214?

11 MR. GEORGE: Objection.

12 To the extent you're asking about training,
13 safety, engineering practices followed by Charter, we
14 designated Mike Mullins for that topic, and I believe
15 you've asked these set of questions to Mike Mullins.

16 So you can ask Nestor his personal
17 knowledge, but he will not be testifying on behalf of
18 the company.

19 MS. HARDEN: He will be testifying in his
20 capacity with the company, correct?

21 MR. GEORGE: He will be testifying as an
22 employee of the company about his personal knowledge.

23 BY MR. TILLEY:

24 Q. You are the Senior Director of Construction
25 overseeing Charter's operations in the Carolina Region,

1 correct?

2 A. Correct.

3 Q. Does Charter have a separate program to inspect
4 its lines and aerial facilities for safety violations
5 under NESC Rule 214?

6 MR. GEORGE: Same objection.

7 THE WITNESS: Not to my knowledge.

8 BY MR. Tilley:

9 Q. Is it your understanding that Charter's practice
10 is, generally, to have employees note violations when
11 they come across them in the course of their regular
12 work?

13 MR. GEORGE: Same objection.

14 THE WITNESS: Yes.

15 BY MR. TILLEY:

16 Q. But Charter does not have a safety inspection
17 program, other than when employees happen to come across
18 something?

19 MR. GEORGE: Same objection.

20 THE WITNESS: Correct.

21 BY MR. TILLEY:

22 Q. And there's no Charter employee that has
23 responsibility for riding the lines in Charter's aerial
24 facilities to inspect them for safety issues; is that
25 correct?

1 MR. GEORGE: Same objection.

2 THE WITNESS: Correct.

3 BY MR. TILLEY:

4 Q. I remember, in your testimony in the Time Warner
5 case, you testified that as far as conducting regular
6 safety inspections, Time Warner Cable generally relies
7 on pole owners to do those inspections; do you recall
8 that?

9 A. I recall saying it was a shared responsibility.

10 Q. Well, your testimony was, I believe, and it was
11 almost word-for-word, that as far as conducting regular
12 separate safety inspections, Time Warner Cable generally
13 relies on pole owners to conduct inspections; do you
14 recall that?

15 MR. GEORGE: Objection to form.

16 THE WITNESS: Yes.

17 BY MR. TILLEY:

18 Q. Is the same true for Charter?

19 MR. GEORGE: Objection.

20 Again, this is not a topic that this
21 witness is designated to testify about.

22 THE WITNESS: Yes.

23 BY MR. TILLEY:

24 Q. It is the same for Charter?

25 MR. GEORGE: Same objection.

EXHIBIT GLB-8

STATE OF NORTH CAROLINA
UTILITIES COMMISSION
RALEIGH
DOCKET NO. EC-23-SUB 50

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

In the Matter of: :
BLUE RIDGE ELECTRIC :
MEMBERSHIP CORPORATION, :

Petitioner, :

VS. :

CHARTER COMMUNICATIONS :
PROPERTIES, LLC, :

Respondent. :

Abstract Summary Full Text

30(b) 6) DEPOSITION OF MICHEAL MULLINS
(Taken by the Petitioner)
Charlotte, North Carolina
October 4, 2017

Reported by: Jackie Johnson Milam
Court Reporter
Notary Public

1 the span footages. We measure clearances, and then we
2 notify the attacher and request permission to make those
3 attachments.

4 Q. When you say we, are those Charter's employees or
5 are those Charter's contractors?

6 A. Those are Charter's employees.

7 Q. Then if the pole owner gives permission to make
8 the attachment, who actually does the work?

9 A. That is our contractor.

10 Q. Is there any time, at least in the extension of
11 the main line, distribution main line attachments, that
12 or main line construction -- excuse me -- that Charter
13 employees do the construction work, as opposed to
14 contractors?

15 MR. GEORGE: Objection. Vague.

16 BY MR. TILLEY:

17 Q. Do your employees ever do construction on
18 extension of the main line?

19 A. My employees do not.

20 Q. So in every instance when you're doing
21 construction on the main line, that is work done through
22 contractors?

23 A. That is correct.

24 Q. Is there a Maintenance Group, with respect to the
25 aerial plant, or a group that performs maintenance?

1 A. Yes.

2 Q. Is that separate from your Construction Group?

3 A. That is.

4 Q. What does that Maintenance Group do when it
5 conducts its work?

6 A. They monitor signal levels. They adjust the
7 equipment, the active equipment, to ensure that it's
8 running at its peak levels. They monitor power
9 supplies.

10 Q. Do they do anything else?

11 A. They do repairs to the plant.

12 Q. What types of repairs do they perform?

13 A. If there's a broken cable, if there's a cut
14 cable, if equipment is damaged, they will replace it.

15 Q. Now, my understanding is, when you were talking
16 about signal strength, that the primary focus of the
17 Maintenance Group is to make sure that the signal is
18 being transmitted across Charter's facilities; is that
19 correct?

20 A. That is correct.

21 Q. Does the Maintenance Group conduct regular
22 reviews or inspections of Charter's lines to make sure
23 that they comply with the applicable codes and
24 construction specs?

25 A. They're in the field daily, and they do monitor,

1 look for the plant inconsistencies.

2 Q. When they're in the field daily, though, that's
3 because they're performing this work monitoring signal
4 strength, checking power supplies, or fixing broken
5 lines; is that correct?

6 A. That is correct, but they're also looking at our
7 plant to make sure that it's secure.

8 Q. If they see anything along the way, they're
9 supposed to note it and do something about it; is that
10 right?

11 A. They will.

12 Q. But they're not independently tasked to go
13 through and make sure that the attachments are in
14 compliance and clearances have remained the same over
15 time?

16 A. Not specifically, no.

17 Q. Does your Construction Group have a program to
18 regularly inspect the lines for compliance with NESC and
19 other construction specifications?

20 A. Many like the maintenance techs, my coordinators
21 are in the field every day, and we're observing the
22 plant as we're riding our jobs.

23 Q. So they'll catch it if they see it in the course
24 of other business?

25 A. Yes.

1 Q. Are any of the employees that perform -- let me
2 back up for just a second.

3 Are any of Charter's employees that perform
4 construction or maintenance work on its aerial
5 facilities professional engineers?

6 A. No, they're not.

7 Q. Does Charter provide its employees training on
8 the NESC?

9 A. We train our employees on topics within the NESC.

10 Q. And just for the purposes of the Record, when I
11 said the NESC, I mean the National Electric Safety Code.

12 A. Correct. Yes.

13 Q. You said that Charter performs training on
14 portions of the NESC.

15 Are those formal trainings or is that on-the-job
16 training?

17 A. That is primarily on-the-job training.

18 Q. To the extent Charter provides formal training,
19 what is that formal training program?

20 A. There are various training topics that we cover
21 on a weekly, monthly basis. They range anywhere from
22 defensive driving to power supplies, handling temporary
23 cables, office safety, proper lifting, just general
24 safety.

25 Q. In those trainings, is defensive driving covered

1 by the NESC?

2 A. Not that I'm aware of.

3 Q. And those trainings are in-house trainings for
4 Charter employees only; is that correct?

5 A. Yes.

6 Q. They're not for contractors?

7 A. That's correct.

8 Q. Who provides those trainings?

9 A. The supervisors.

10 Q. When Charter applies to attach to Blue Ridge's
11 poles, does it do an engineering analysis on the
12 proposed construction before it asks Blue Ridge for
13 permission to attach?

14 MR. GEORGE: Objection to form.

15 BY MR. TILLEY:

16 Q. Charter makes attachments to Blue Ridge's poles;
17 is that correct?

18 A. That is correct.

19 Q. And Charter determines that it's going to attach
20 to those poles before it makes the attachment, I'm
21 assuming, correct?

22 A. That is correct.

23 Q. When Charter decides to attach to Blue Ridge's
24 poles, does it perform an engineering analysis of the
25 attachments before making them?

1 correct?

2 A. That is correct.

3 Q. Have you ever seen a loading analysis performed
4 on overlashing --

5 MR. GEORGE: Objection, form.

6 BY MR. TILLEY:

7 Q. -- or proposed overlashing?

8 MR. GEORGE: Same objection.

9 THE WITNESS: I'm sorry. Repeat the
10 question.

11 BY MR. TILLEY:

12 Q. In your work with Charter, have you ever seen or
13 has Charter ever performed a loading analysis before or
14 after it overlashed facilities?

15 MR. GEORGE: Same objection.

16 THE WITNESS: The cables we overlash are
17 lightweight. So no.

18 BY MR. TILLEY:

19 Q. Have you ever performed a wind loading analysis
20 of either proposed or completed overlashing?

21 MR. GEORGE: Objection, form.

22 THE WITNESS: That would be the same answer.

23 BY MR. TILLEY:

24 Q. Does Charter perform an analysis of its pole
25 attachments in its proposed construction to ensure it

1 would need to maintain additional clearance from.

2 Q. So say there's a transformer on the pole that's
3 below the neutral, how would that change things?

4 A. Then we would need to maintain a minimum of
5 40 inches below the bottom of the transformer and still
6 maintain our 72 inches from the neutral.

7 Q. Where does that 72 inch clearance requirement
8 come from?

9 A. Out of the Agreement with Blue Ridge.

10 Q. Charter's Agreement with Blue Ridge?

11 A. Yes.

12 Q. You said that Charter uses contractors to perform
13 construction work; is that correct?

14 A. That is correct.

15 Q. In fact, it uses contractors to perform all of
16 its construction work; is that correct?

17 A. That's correct.

18 Q. And you said that, at least with respect to
19 construction work, Charter employees never perform that
20 work themselves in Blue Ridge's territory; is that
21 correct?

22 A. That's correct.

23 Q. Has Charter always used contractors to do its
24 construction work?

25 A. Yes.

1 A. They do, yes.

2 Q. How do you know that?

3 A. We periodically review their safety training.

4 Q. What do you review when you review their safety
5 training?

6 A. Topics, attendees.

7 Q. So they provide some sort of documentation?

8 A. Yes.

9 Q. And that documentation, what does it include?

10 A. Just the topics, safety topics covered and the
11 attendees.

12 Q. Does Charter ever provide safety training to
13 contractors' employees?

14 A. No, we do not.

15 Q. Does Charter ever provide training to
16 contractors' employees on compliance with the NESC?

17 A. No, we do not.

18 Q. Does Charter ever provide training to
19 contractors' employees on the specifications or
20 construction requirements that Blue Ridge imposes on its
21 system?

22 A. Yes, we do.

23 Q. How do you provide that training?

24 A. Usually verbal, just verbal communication with
25 the supervisors so they understand the requirements for

1 the different utilities that we're attaching to their
2 poles.

3 Q. So there's no formal communication of Blue
4 Ridge's construction requirements; is that right?

5 MR. GEORGE: Objection to form.

6 BY MR. TILLEY:

7 Q. It's just verbal?

8 MR. GEORGE: Objection to form.

9 THE WITNESS: Yes. It's a meeting.

10 BY MR. TILLEY:

11 Q. It's not written?

12 A. Correct.

13 Q. And that meeting typically occurs between whom?

14 A. The Construction Team and the contractors'
15 supervisors.

16 Q. Let me pull out a document here. Excuse me.
17 Before I do that.

18 You said that Charter's -- excuse me -- Blue
19 Ridge's construction specifications are communicated
20 between construction personnel verbally between
21 Charter's construction personnel and its contractors'
22 personnel; is that right?

23 A. That is correct.

24 Q. Is there any follow-up documentation to confirm
25 that those specifications were communicated to the