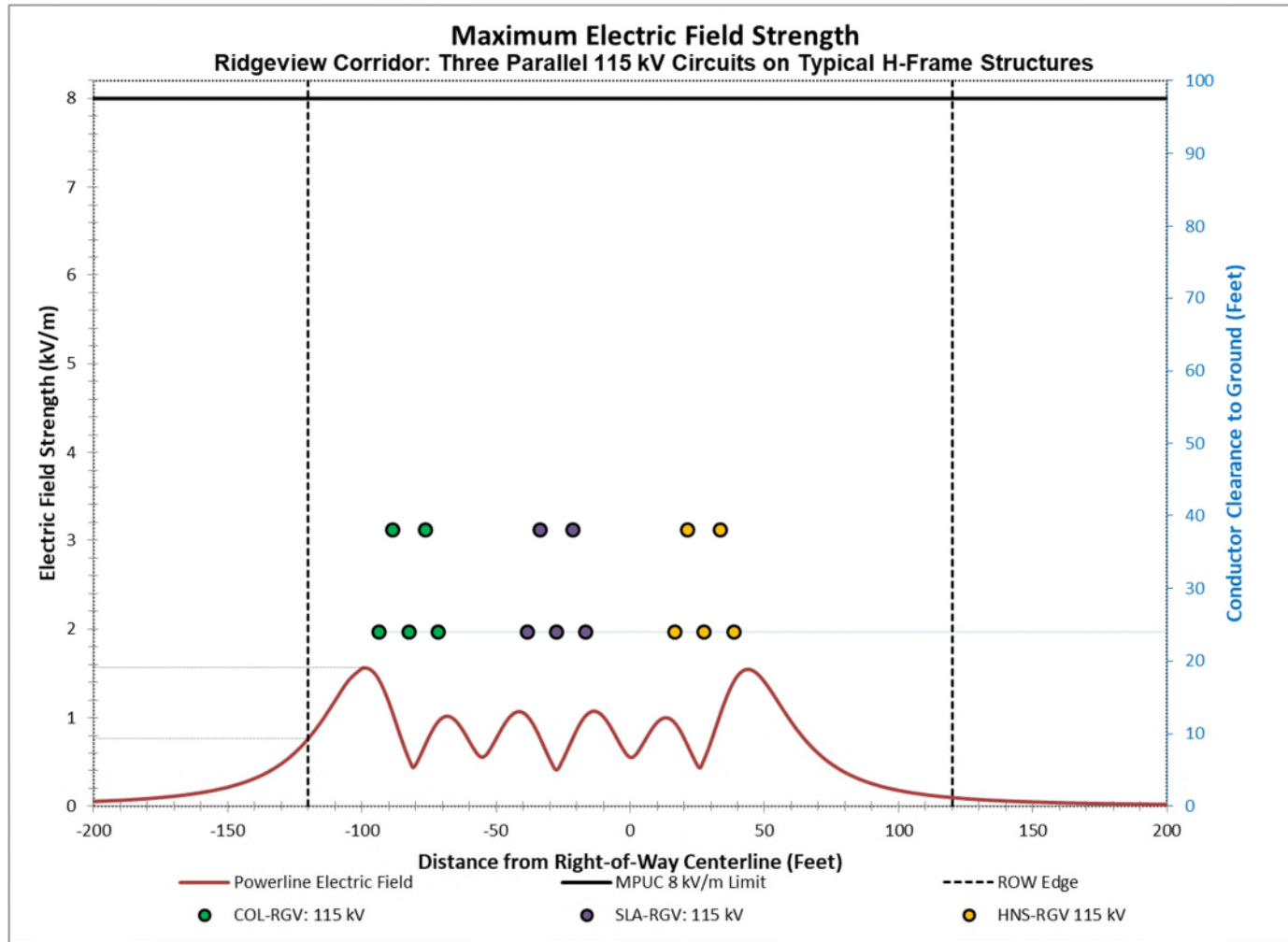


APPENDIX H

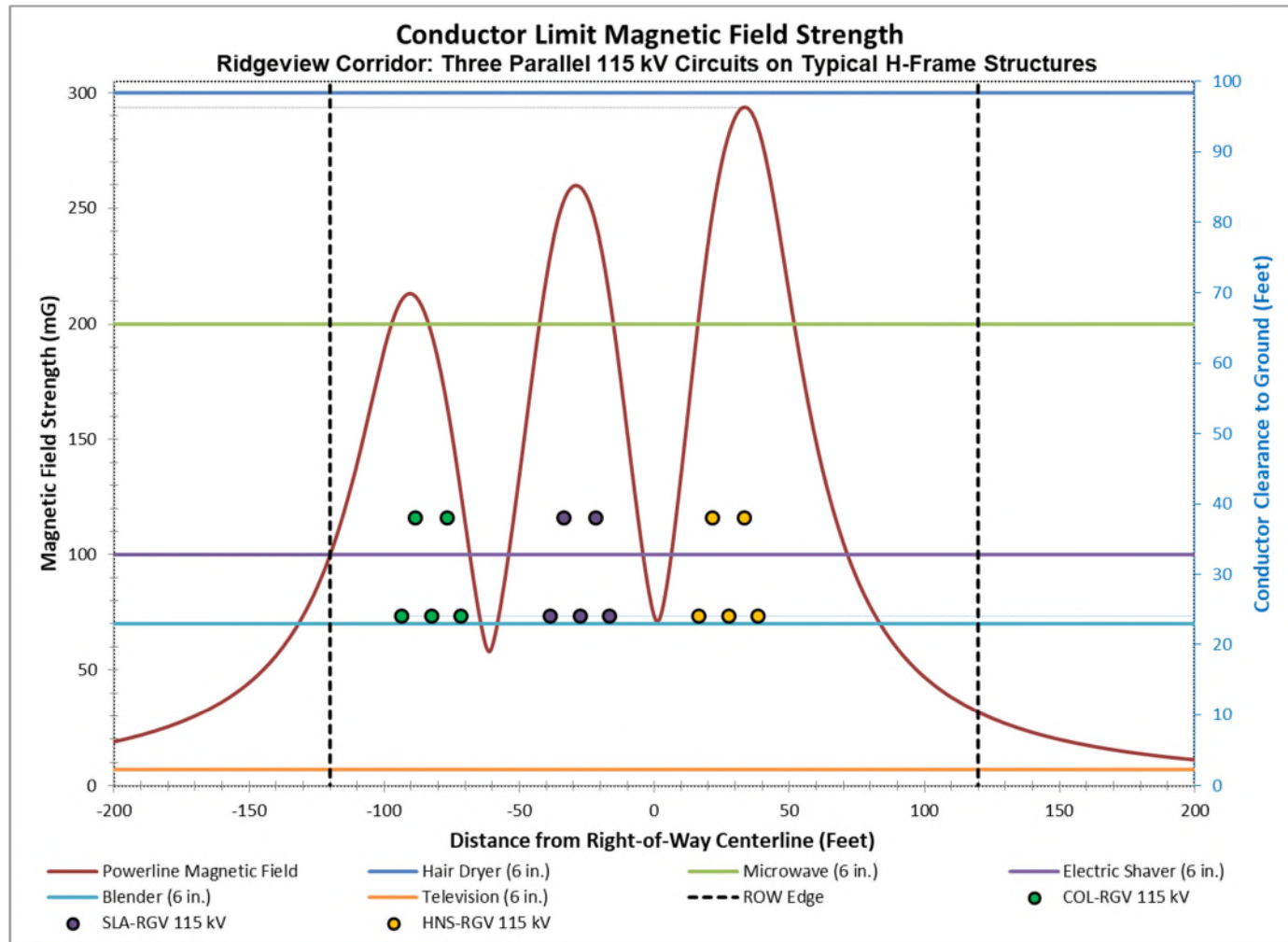
**ELECTRIC AND MAGNETIC FIELDS CALCULATIONS
AND NOISE CALCULATIONS**

Figure 1A: Corridor Configuration – Project 115 kV H-Frame, Existing 115 kV H-Frame, Existing 115 kV H-Frame



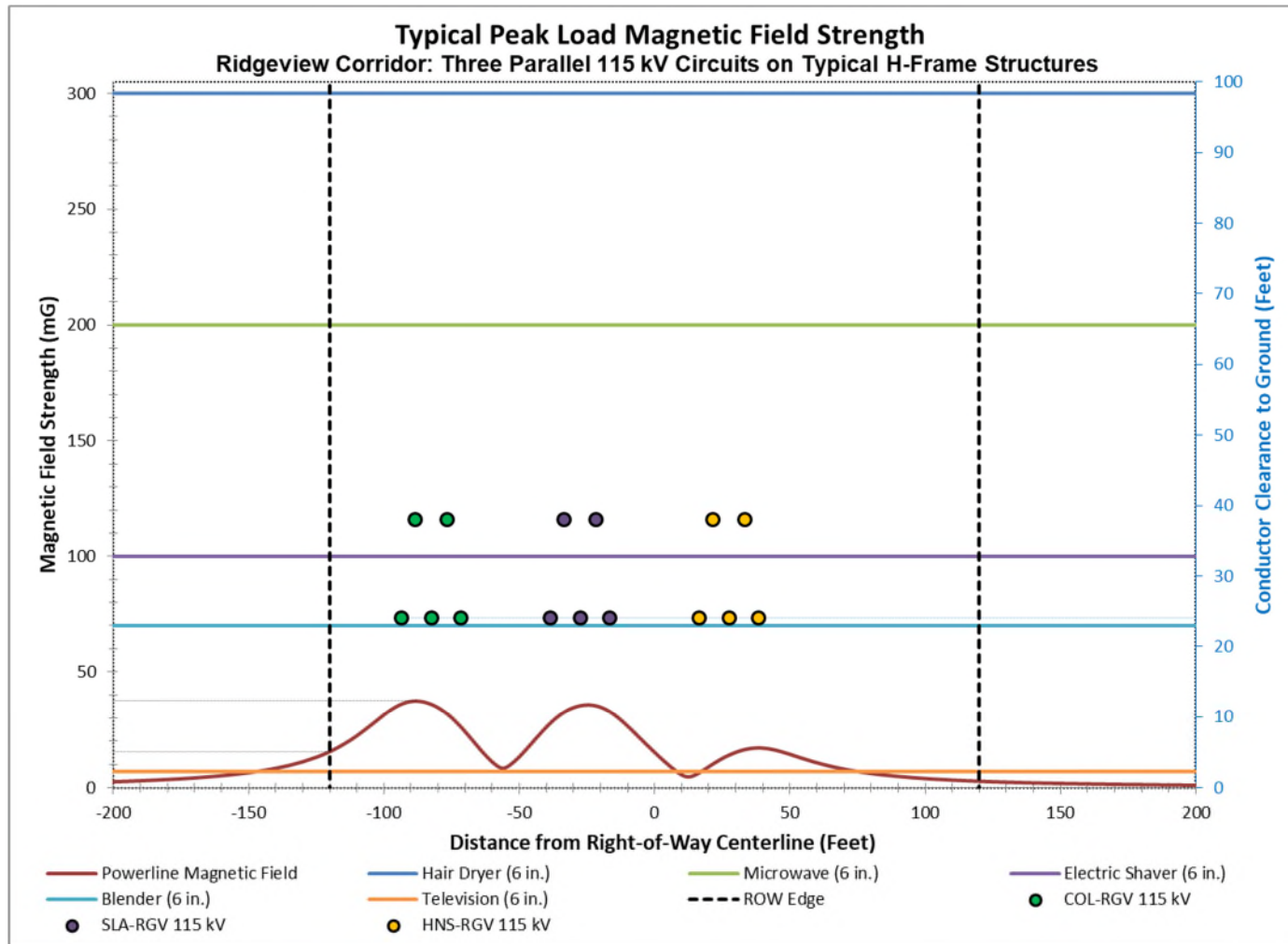
RESULTS	Max	Edge of ROW		Value at Distance from Centerline															
		Left	Right																
Distance from Centerline (feet)	-99.0	-120.0	120.0	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300	
Value (kV/m)	1.56	0.76	0.10	0.01	0.05	0.21	1.56	0.78	0.76	0.53	0.55	0.46	1.41	0.48	0.18	0.05	0.02	0.01	

Figure 1B: Corridor Configuration – Project 115 kV H-Frame, Existing 115 kV H-Frame, Existing 115 kV H-Frame



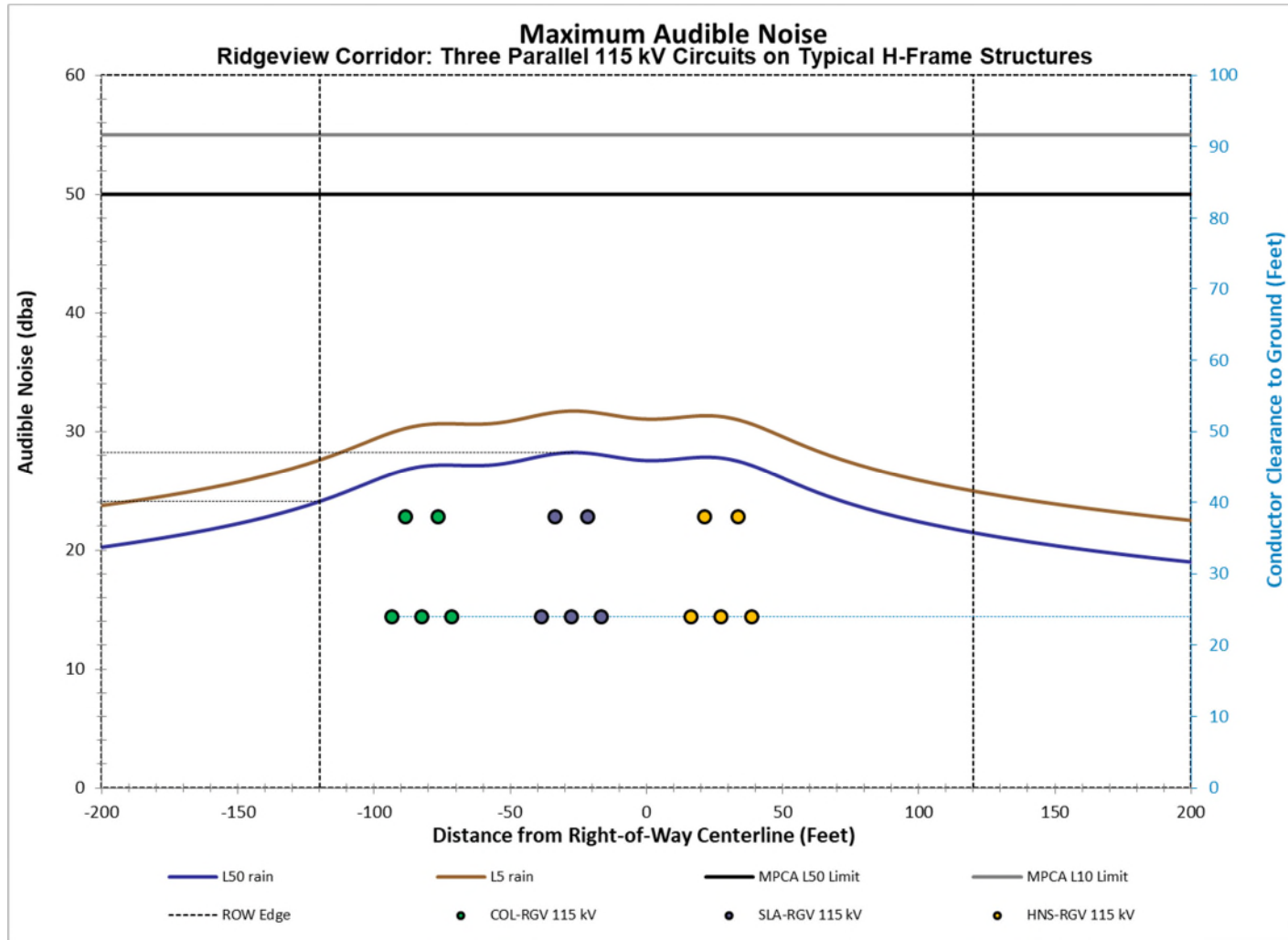
RESULTS	Max	Edge of ROW		Value at Distance from Centerline														
		Left	Right	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300
Distance from Centerline (feet)	33.0	-120.0	120.0															
Value (mG)	293.70	99.93	31.65	6.91	18.92	44.45	188.89	152.91	134.00	255.02	73.22	270.09	212.71	89.64	46.90	19.88	11.13	5.01

Figure 1C: Corridor Configuration – Project 115 kV H-Frame, Existing 115 kV H-Frame, Existing 115 kV H-Frame



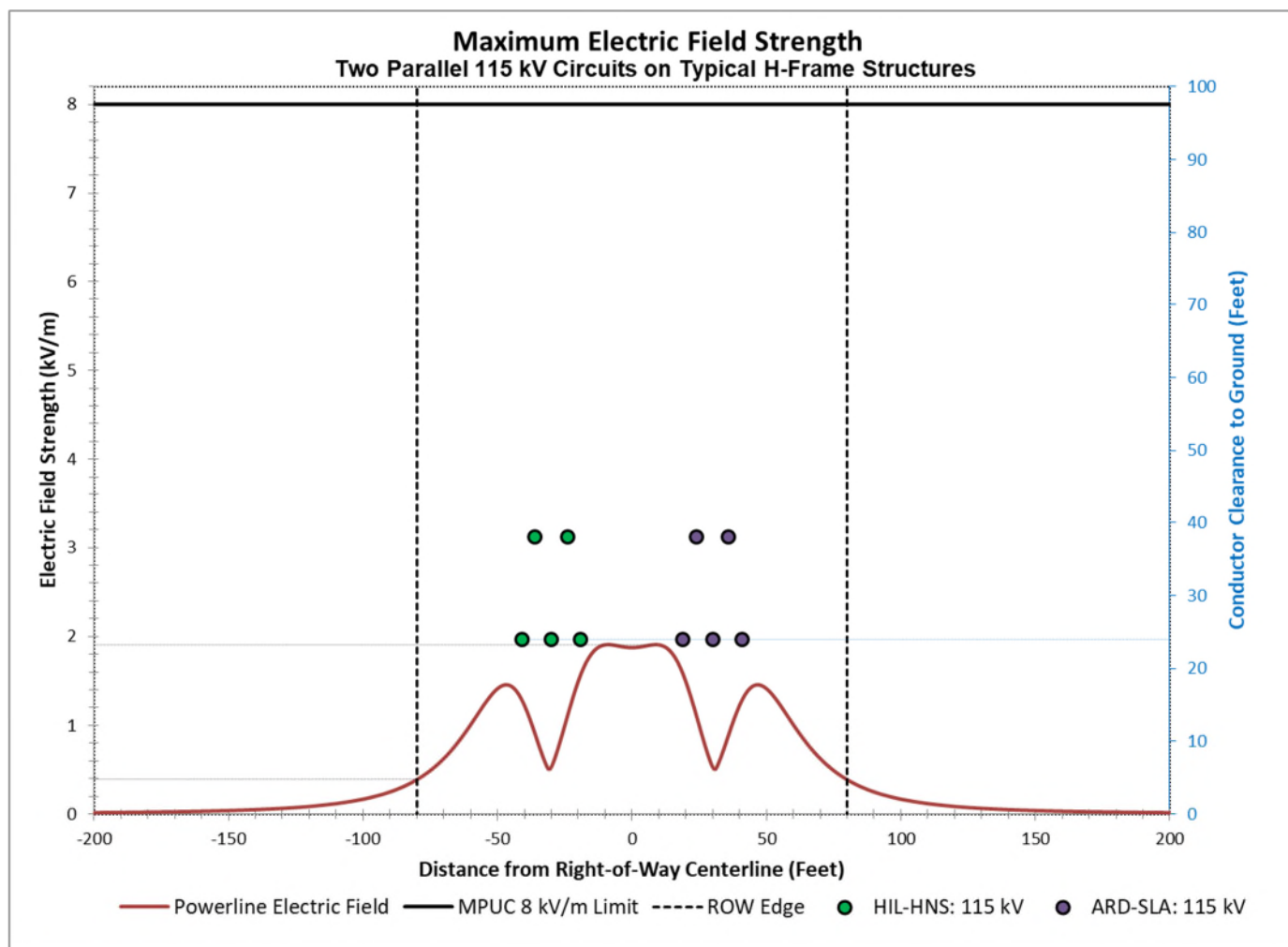
RESULTS	Max	Edge of ROW		Value at Distance from Centerline														
		Left	Right															
Distance from Centerline (feet)	-88.0	-120.0	120.0	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300
Value (mG)	37.32	15.54	2.81	0.89	2.60	6.49	31.39	30.12	13.34	35.63	15.21	12.56	14.35	6.99	3.98	1.85	1.09	0.52

Figure 1D: Corridor Configuration – Project 115 kV H-Frame, Existing 115 kV H-Frame, Existing 115 kV H-Frame



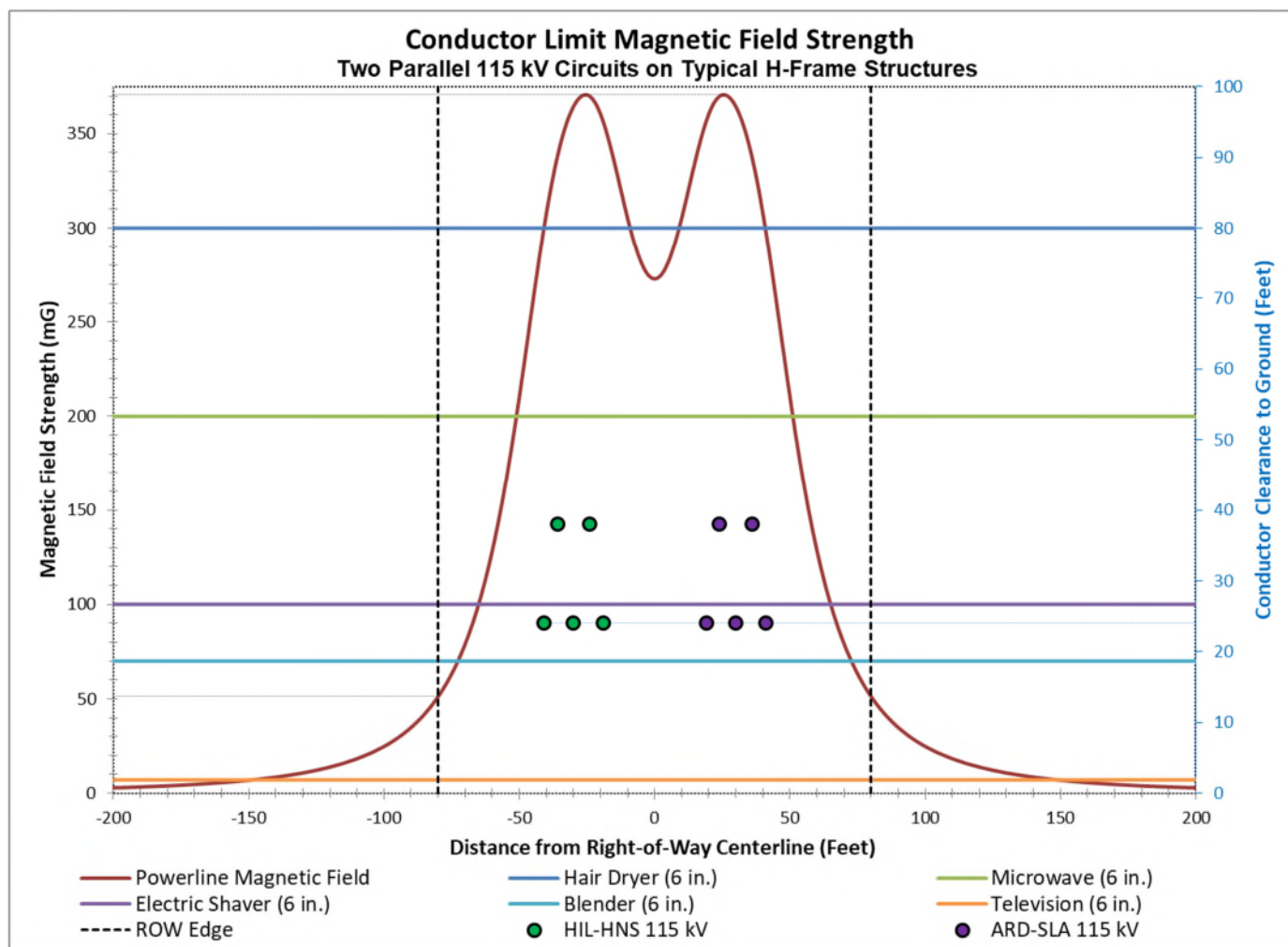
RESULTS	Max	Edge of ROW		Value at Distance from Centerline														
		Left	Right	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300
Distance from Centerline (feet)	-27.0	-120.0	120.0	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300
Value (dba)	28.22	24.09	21.47	17.84	20.25	22.22	25.85	27.16	27.38	28.22	27.55	27.81	26.06	23.88	22.38	20.37	18.99	17.06

Figure 2A: Corridor Configuration – Project 115 kV H-Frame, Existing 115 kV H-Frame



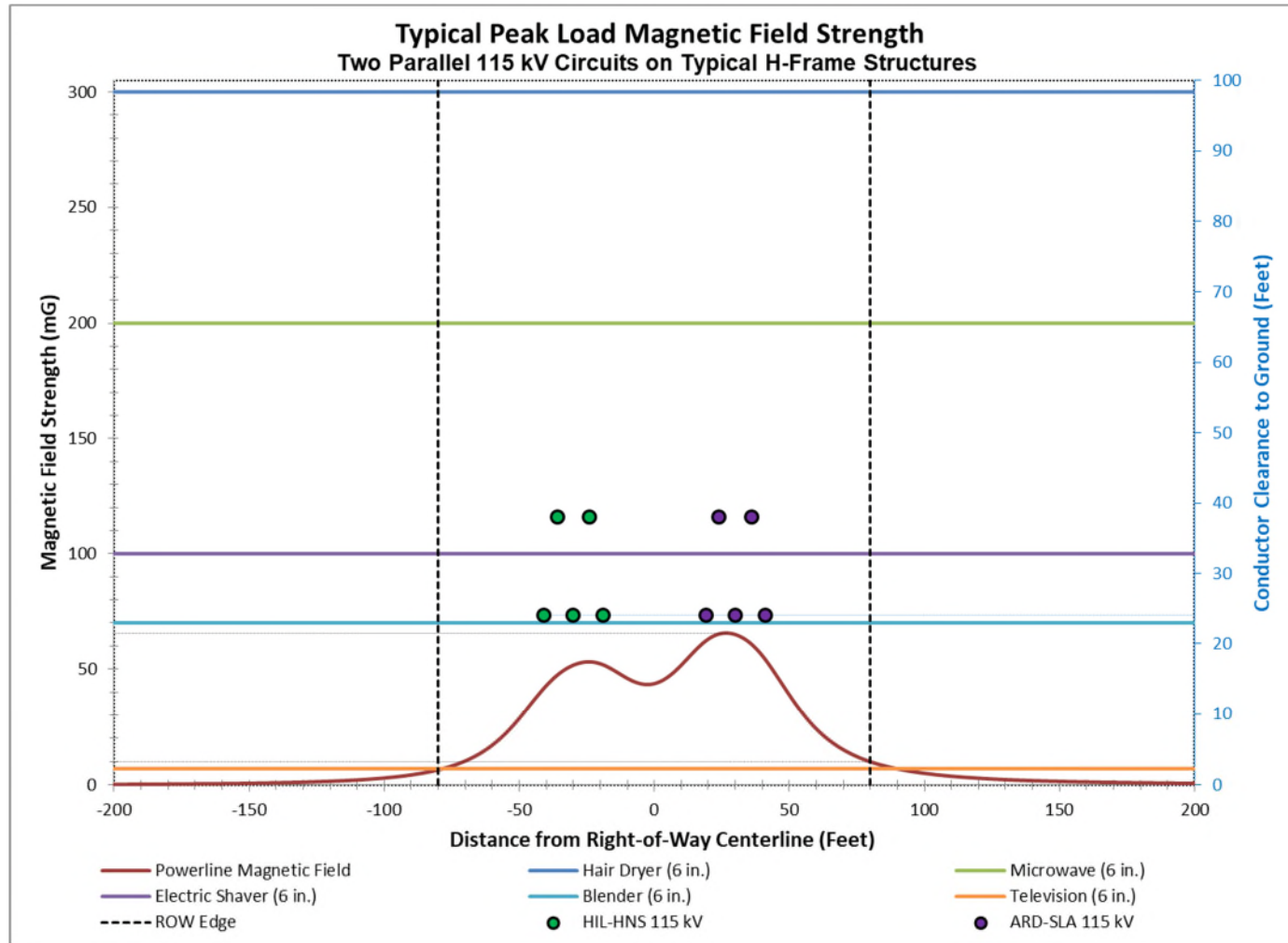
RESULTS	Max	Edge of ROW		Value at Distance from Centerline															
		Left	Right																
Distance from Centerline (feet)	9.0	-80.0	80.0	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300	
Value (kV/m)	1.91	0.39	0.39	0.01	0.02	0.04	0.17	0.49	1.41	1.00	1.87	1.00	1.41	0.49	0.17	0.04	0.02	0.01	

Figure 2B: Corridor Configuration – Project 115 kV H-Frame, Existing 115 kV H-Frame



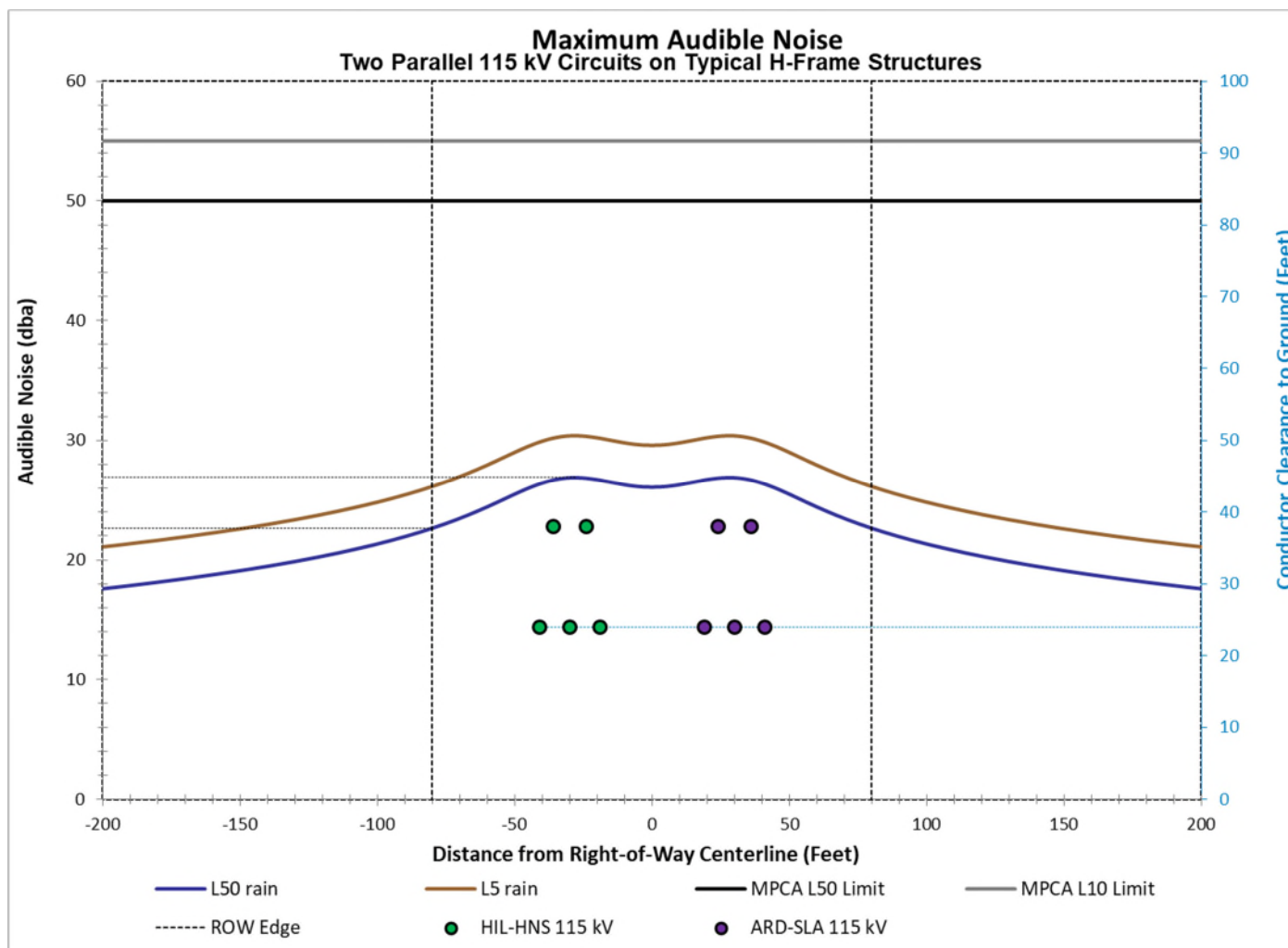
RESULTS	Max	Edge of ROW		Value at Distance from Centerline														
		Left	Right	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300
Distance from Centerline (feet)	26.0	-80.0	80.0															
Value (mG)	370.60	51.25	51.25	0.82	2.82	6.86	24.80	63.27	210.28	370.58	272.78	370.58	210.28	63.27	24.80	6.86	2.82	0.82

Figure 2C: Corridor Configuration – Project 115 kV H-Frame, Existing 115 kV H-Frame



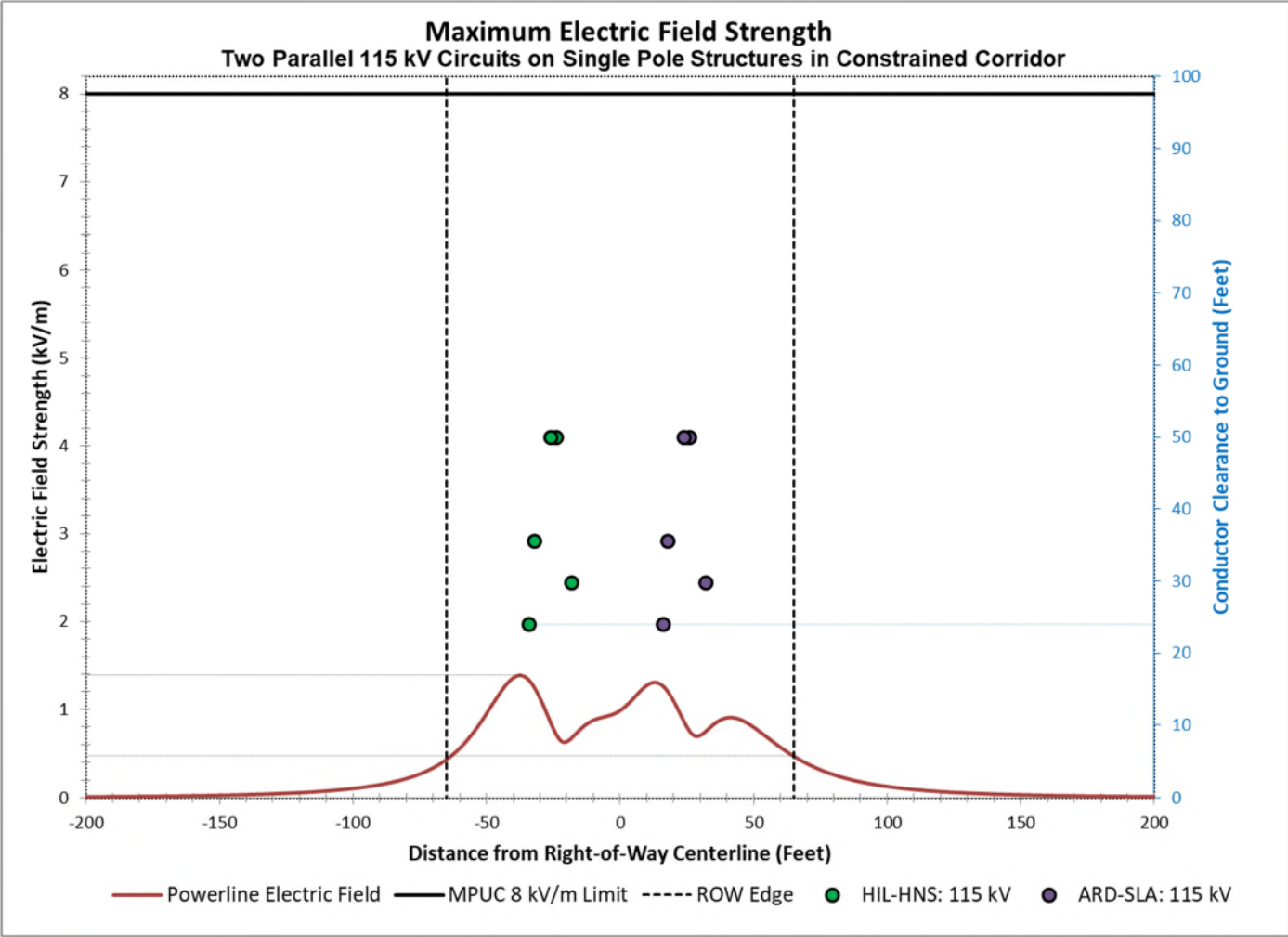
RESULTS	Max	Edge of ROW		Value at Distance from Centerline															
		Left	Right																
Distance from Centerline (feet)	27.0	-80.0	80.0	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300	
Value (mG)	65.62	6.49	9.94	0.04	0.24	0.70	2.97	8.11	28.63	53.14	43.69	65.49	38.72	12.16	4.98	1.50	0.67	0.23	

Figure 2D: Corridor Configuration – Project 115 kV H-Frame, Existing 115 kV H-Frame



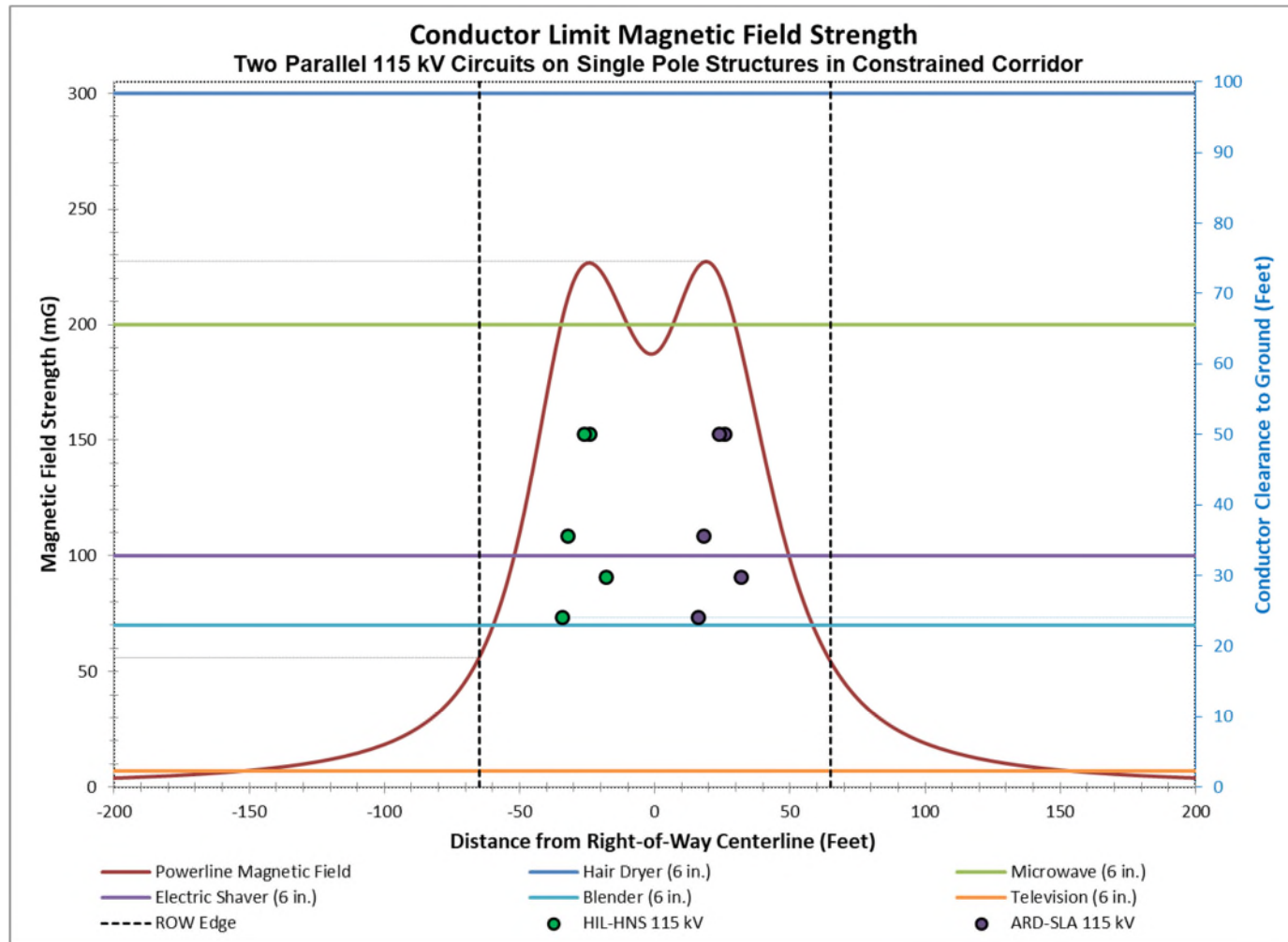
RESULTS	Max	Edge of ROW		Value at Distance from Centerline															
		Left	Right																
Distance from Centerline (feet)	-28.0	-80.0	80.0	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300	
Value (dba)	26.90	22.66	22.66	15.53	17.60	19.10	21.34	23.05	25.51	26.87	26.10	26.87	25.51	23.05	21.34	19.10	17.60	15.53	

Figure 3A: Corridor Configuration – Project 115 kV Monopole, Existing 115 kV Monopole



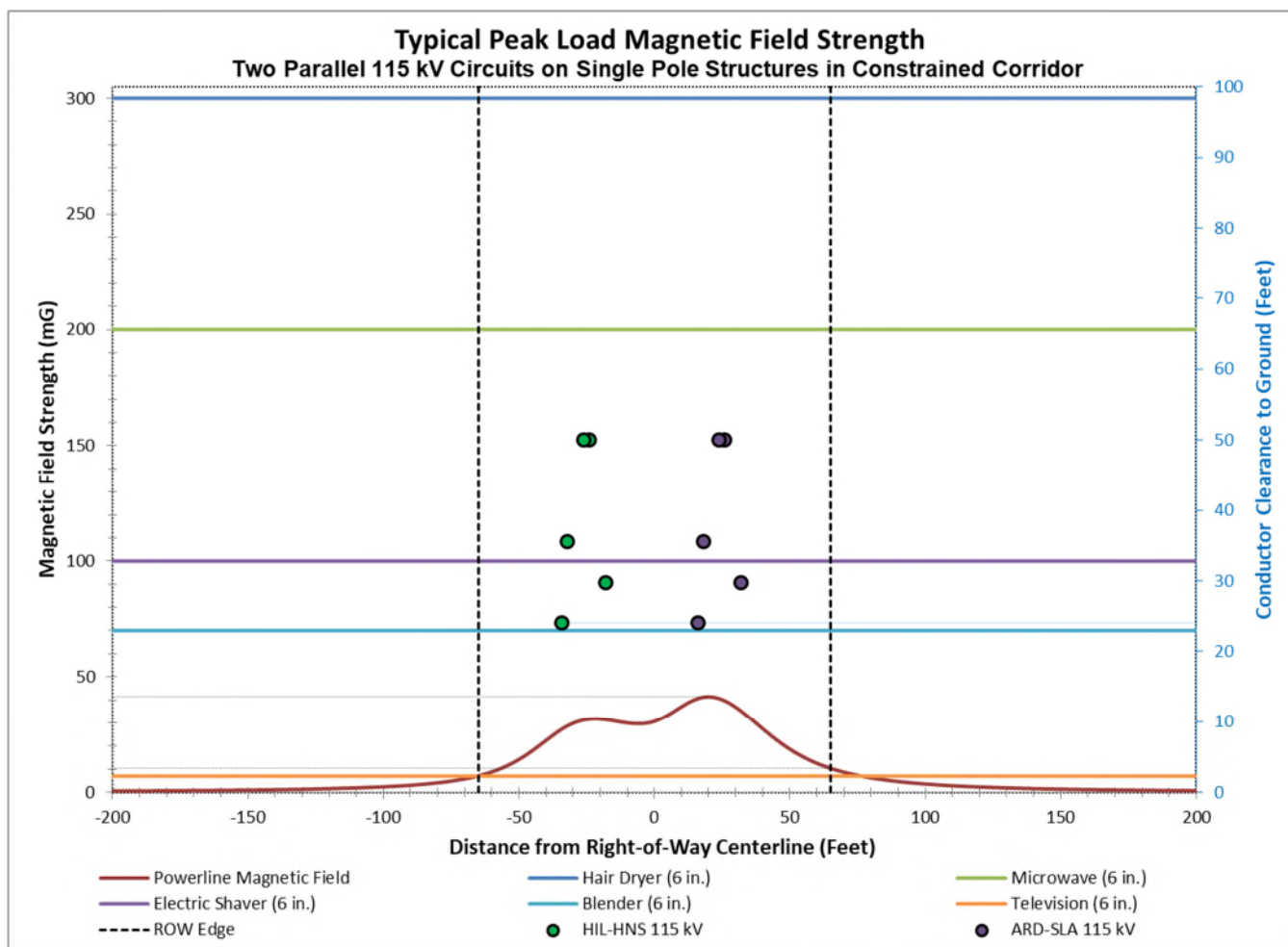
RESULTS	Max	Edge of ROW		Value at Distance from Centerline															
		Left	Right																
Distance from Centerline (feet)	-37.0	-65.0	65.0	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300	
Value (kV/m)	1.38	0.43	0.47	0.00	0.01	0.03	0.11	0.27	0.95	0.78	0.98	0.80	0.80	0.32	0.13	0.03	0.01	0.00	

Figure 3B: Corridor Configuration – Project 115 kV Monopole, Existing 115 kV Monopole



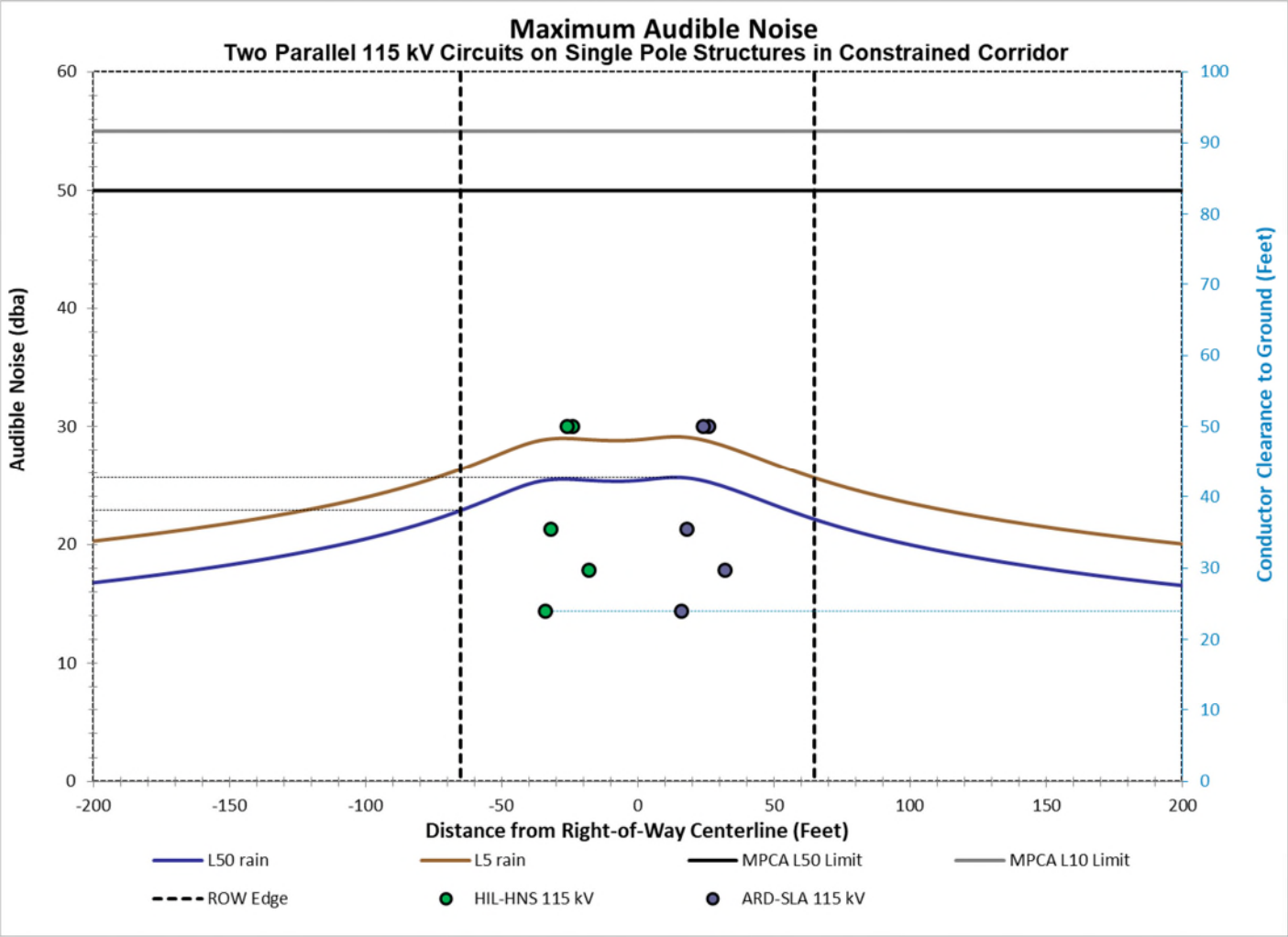
RESULTS	Max	Edge of ROW		Value at Distance from Centerline															
		Left	Right																
Distance from Centerline (feet)	19.0	-65.0	65.0	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300	
Value (mG)	227.31	56.07	54.39	1.65	3.86	7.22	18.46	38.31	109.77	226.62	187.59	218.13	98.30	38.38	18.98	7.37	3.91	1.66	

Figure 3C: Corridor Configuration – Project 115 kV Monopole, Existing 115 kV Monopole



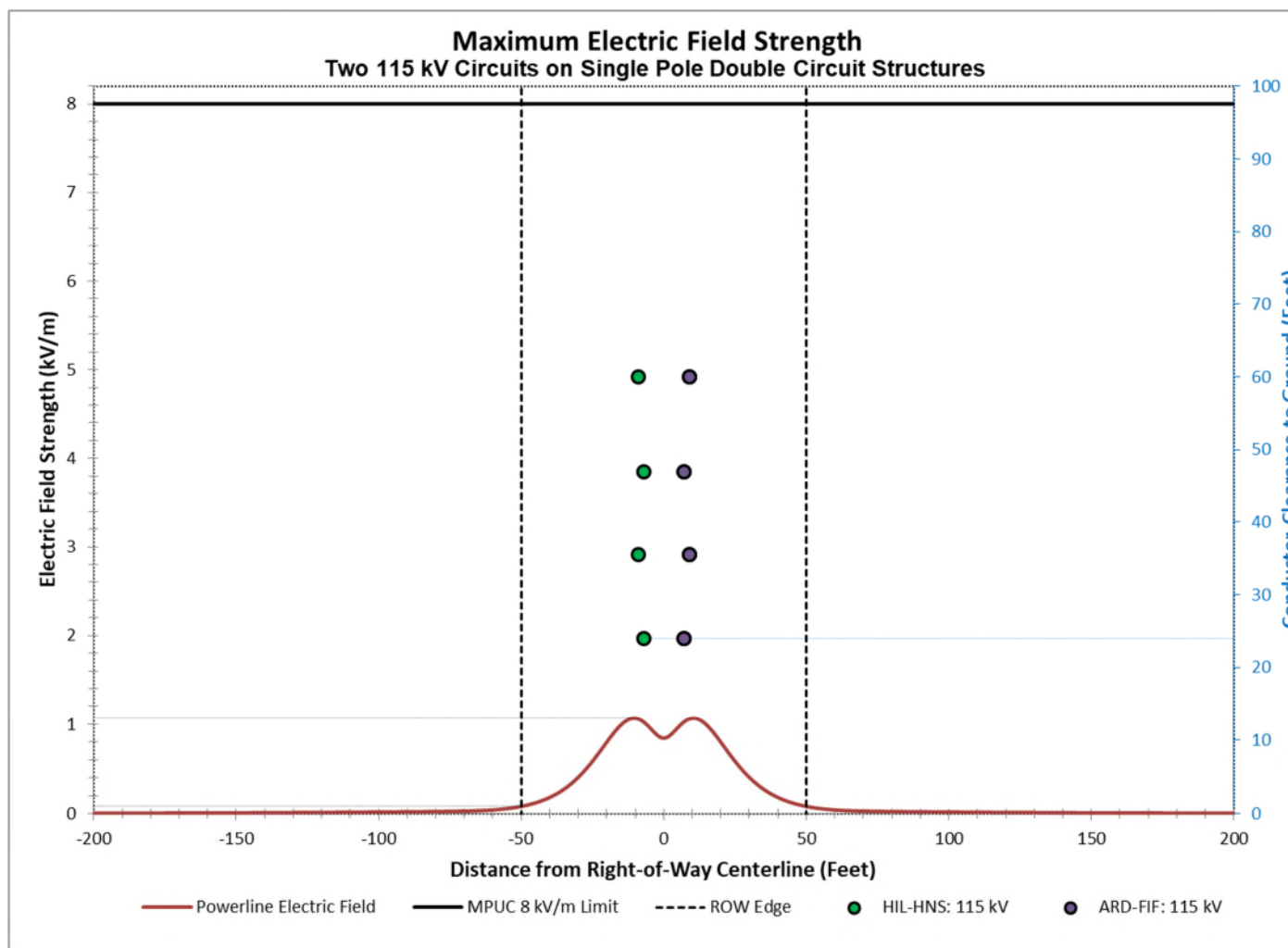
RESULTS	Max	Edge of ROW		Value at Distance from Centerline																
		Left	Right																	
Distance from Centerline (feet)		20.0	-65.0	65.0	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300	
Value (mG)		41.37	7.11	10.38	0.25	0.55	1.00	2.40	4.86	14.16	31.46	30.68	40.15	18.63	7.33	3.61	1.38	0.72	0.30	

Figure 3D: Corridor Configuration – Project 115 kV Monopole, Existing 115 kV Monopole



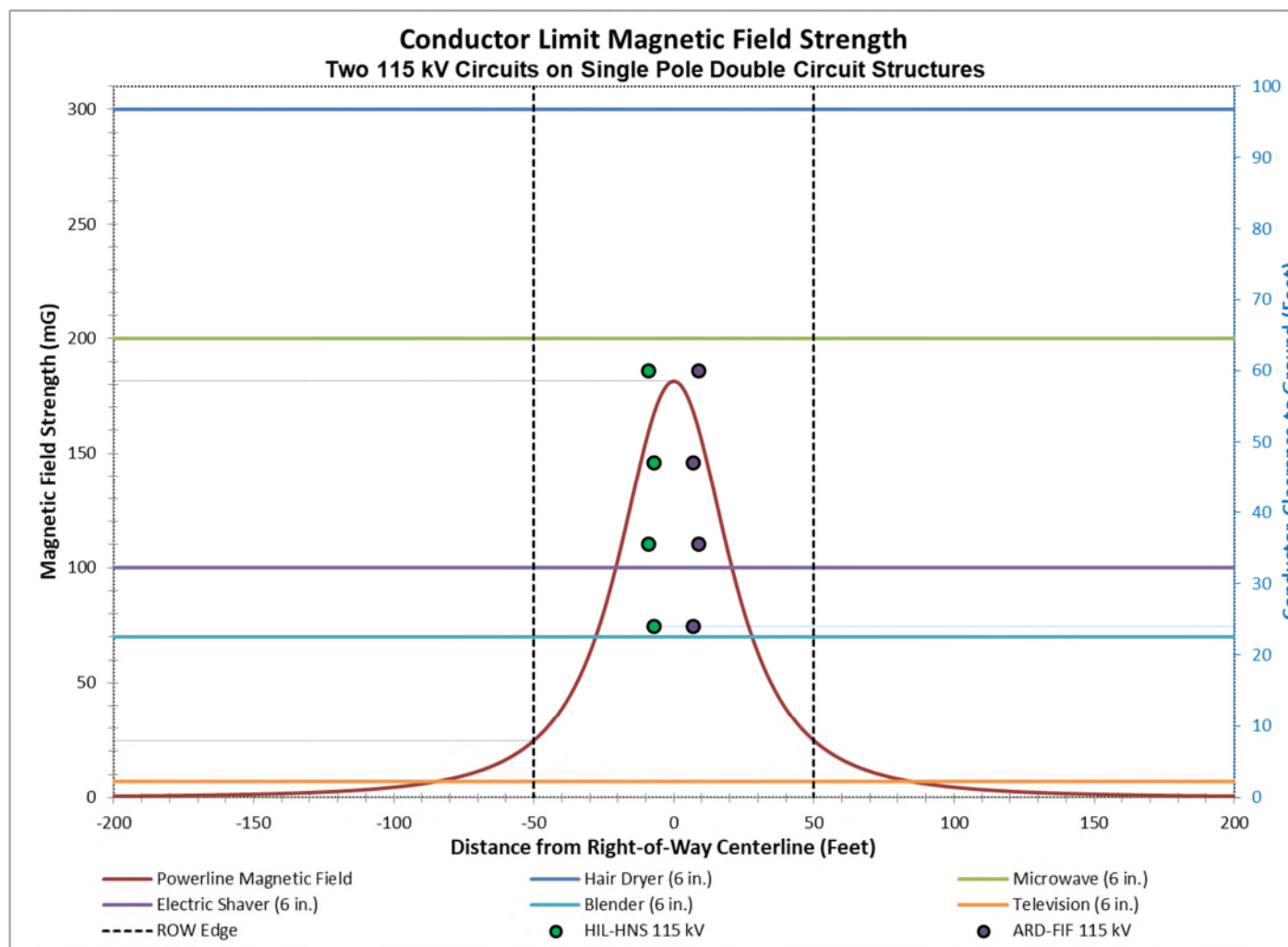
RESULTS	Max	Edge of ROW		Value at Distance from Centerline															
		Left	Right																
Distance from Centerline (feet)	14.0	-65.0	65.0	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300	
Value (dba)	25.64	22.86	22.11	14.70	16.78	18.28	20.46	22.06	24.23	25.49	25.38	25.31	23.33	21.41	19.97	17.96	16.54	14.54	

Figure 4A: Corridor Configuration – Project + Existing 115 kV Double Circuit Monopole



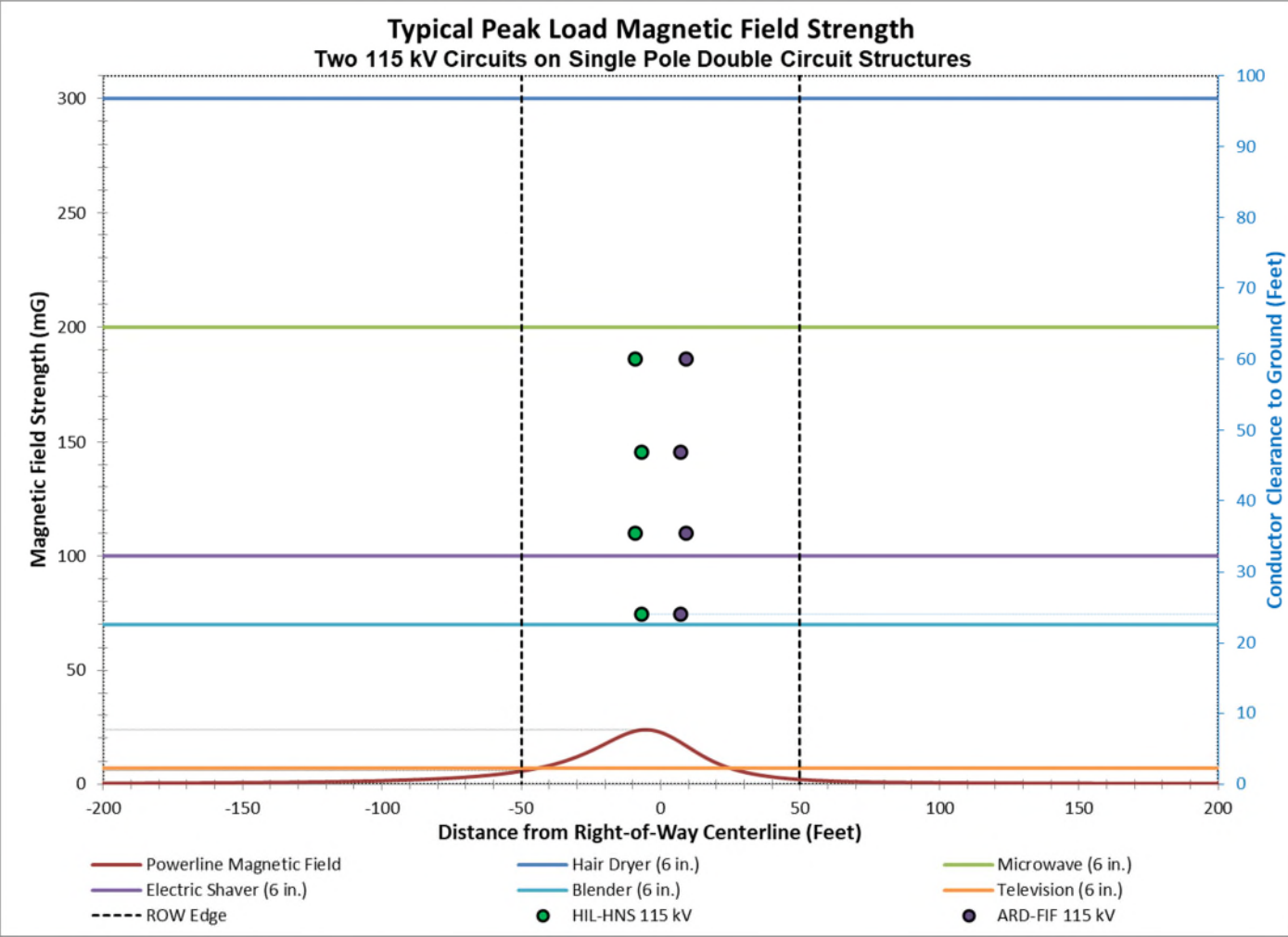
RESULTS	Max	Edge of ROW		Value at Distance from Centerline															
		Left	Right																
Distance from Centerline (feet)	-10.0	-50.0	50.0	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300	
Value (kV/m)	1.07	0.08	0.08	0.00	0.00	0.01	0.02	0.02	0.08	0.58	0.84	0.58	0.08	0.02	0.02	0.01	0.00	0.00	

Figure 4B: Corridor Configuration – Project + Existing 115 kV Double Circuit Monopole



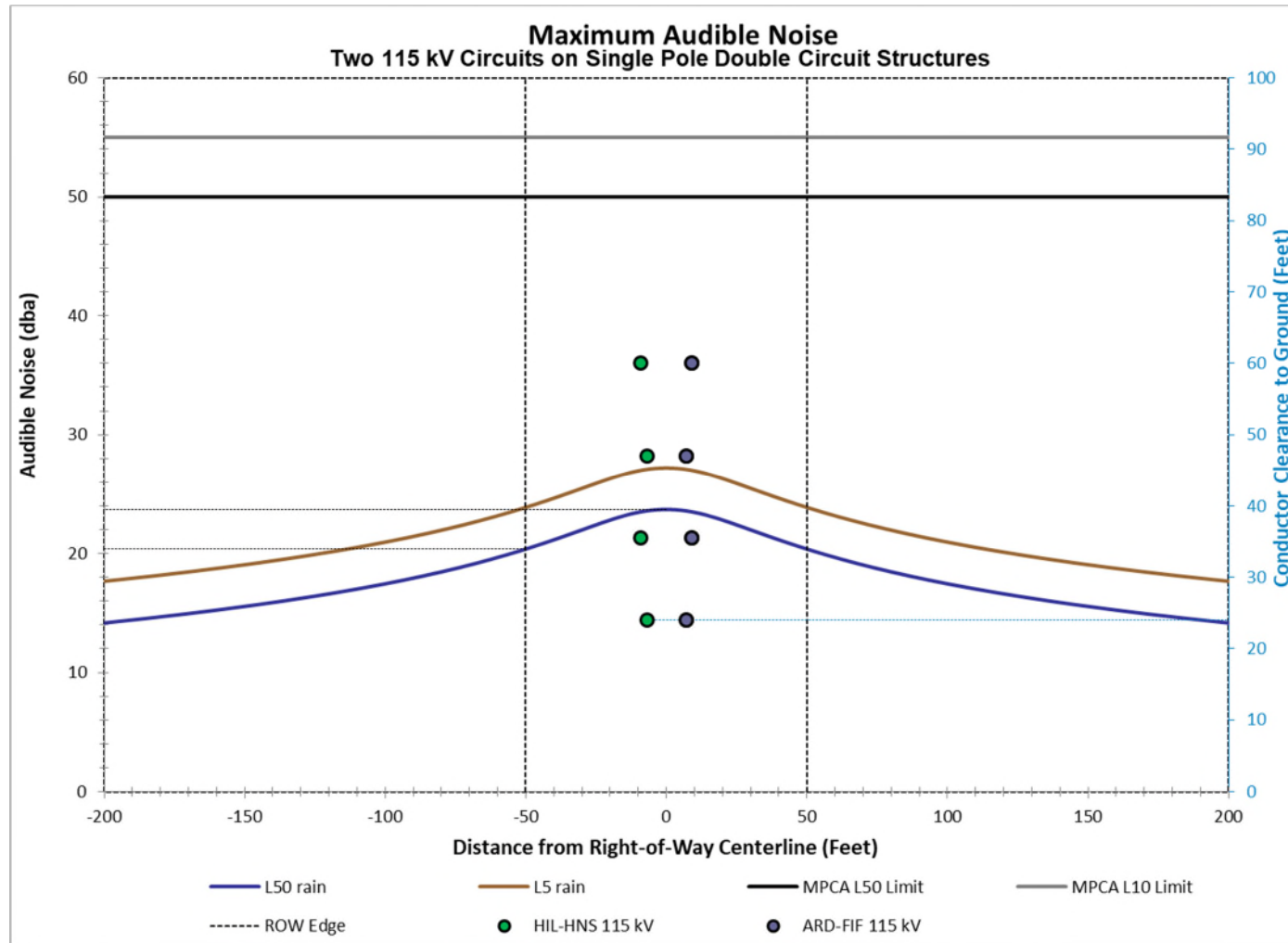
RESULTS	Max	Edge of ROW		Value at Distance from Centerline															
		Left	Right																
Distance from Centerline (feet)	0.0	-50.0	50.0	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300	
Value (mG)	181.40	24.67	24.67	0.19	0.63	1.45	4.50	9.54	24.67	80.99	181.40	80.99	24.67	9.54	4.50	1.45	0.63	0.19	

Figure 4C: Corridor Configuration – Project + Existing 115 kV Double Circuit Monopole



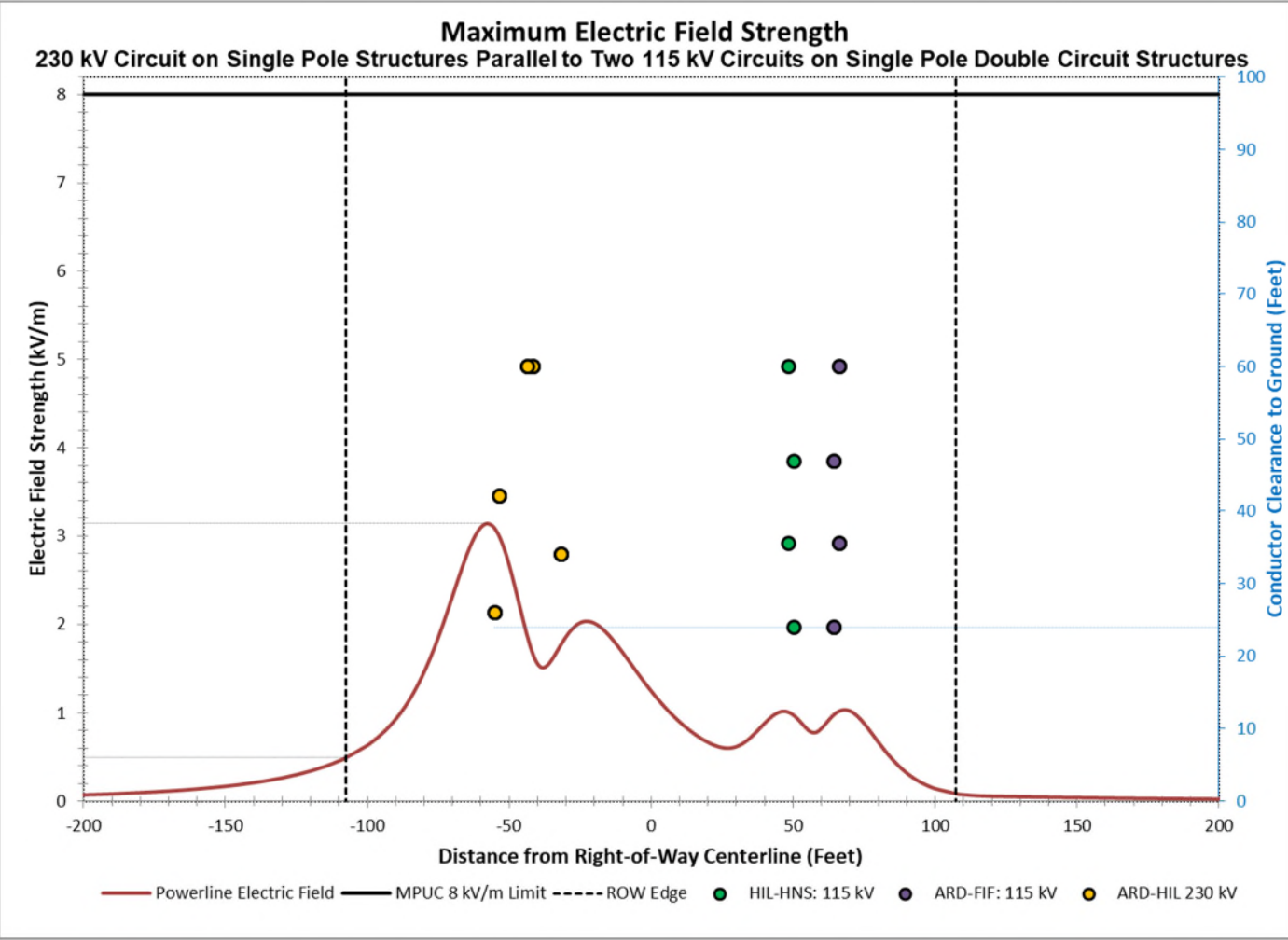
RESULTS	Max	Edge of ROW		Value at Distance from Centerline															
		Left	Right																
Distance from Centerline (feet)	-5.0	-50.0	50.0	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300	
Value (mG)	23.72	5.65	2.02	0.14	0.34	0.63	1.48	2.66	5.65	14.55	22.58	6.92	2.02	0.90	0.57	0.32	0.20	0.10	

Figure 4D: Corridor Configuration – Project + Existing 115 kV Double Circuit Monopole



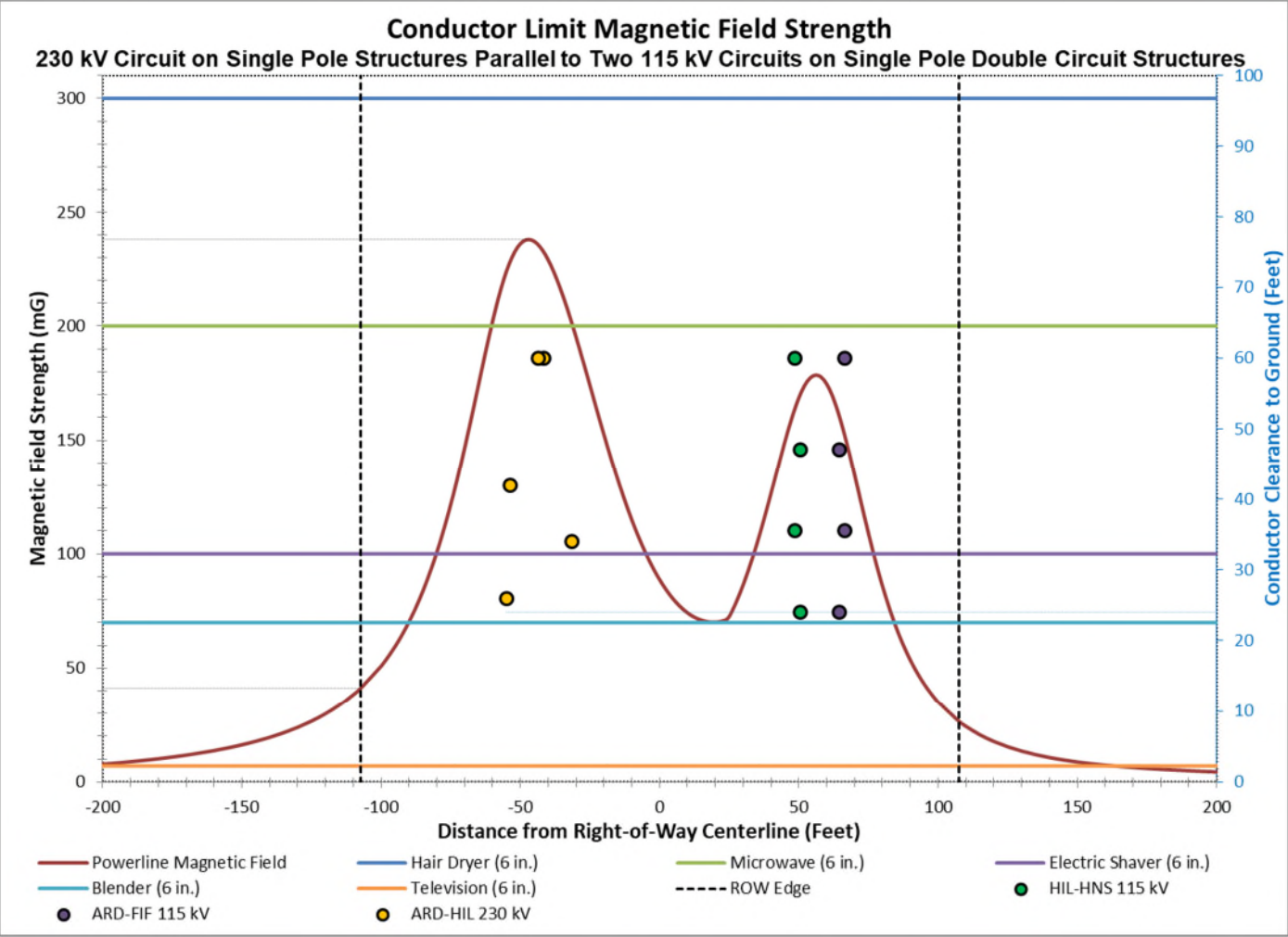
RESULTS	Max	Edge of ROW		Value at Distance from Centerline														
		Left	Right	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300
Distance from Centerline (feet)	0.0	-50.0	50.0															
Value (dba)	23.70	20.37	20.37	12.19	14.17	15.55	17.46	18.74	20.37	22.40	23.70	22.40	20.37	18.74	17.46	15.55	14.17	12.19

Figure 5A: Corridor Configuration – Project + Existing 115 kV Double Circuit Monopole, Existing 230 kV Monopole



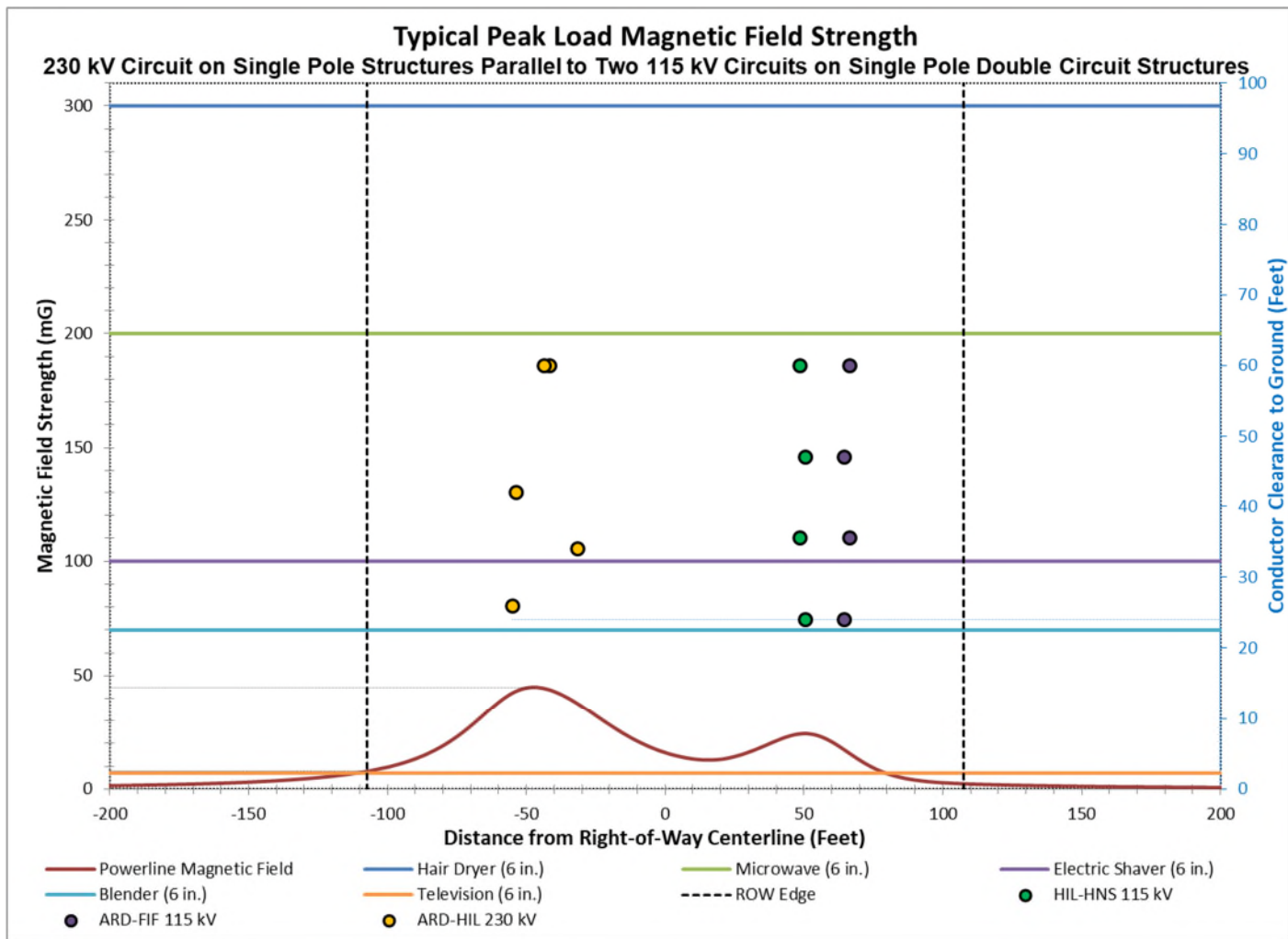
RESULTS	Max	Edge of ROW		Value at Distance from Centerline														
		Left	Right															
Distance from Centerline (feet)	-58.0	-107.5	107.5	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300
Value (kV/m)	3.14	0.49	0.08	0.02	0.07	0.17	0.63	1.85	2.67	2.02	1.25	0.61	0.98	0.88	0.14	0.04	0.02	0.01

Figure 5B: Corridor Configuration – Project + Existing 115 kV Double Circuit Monopole, Existing 230 kV Monopole



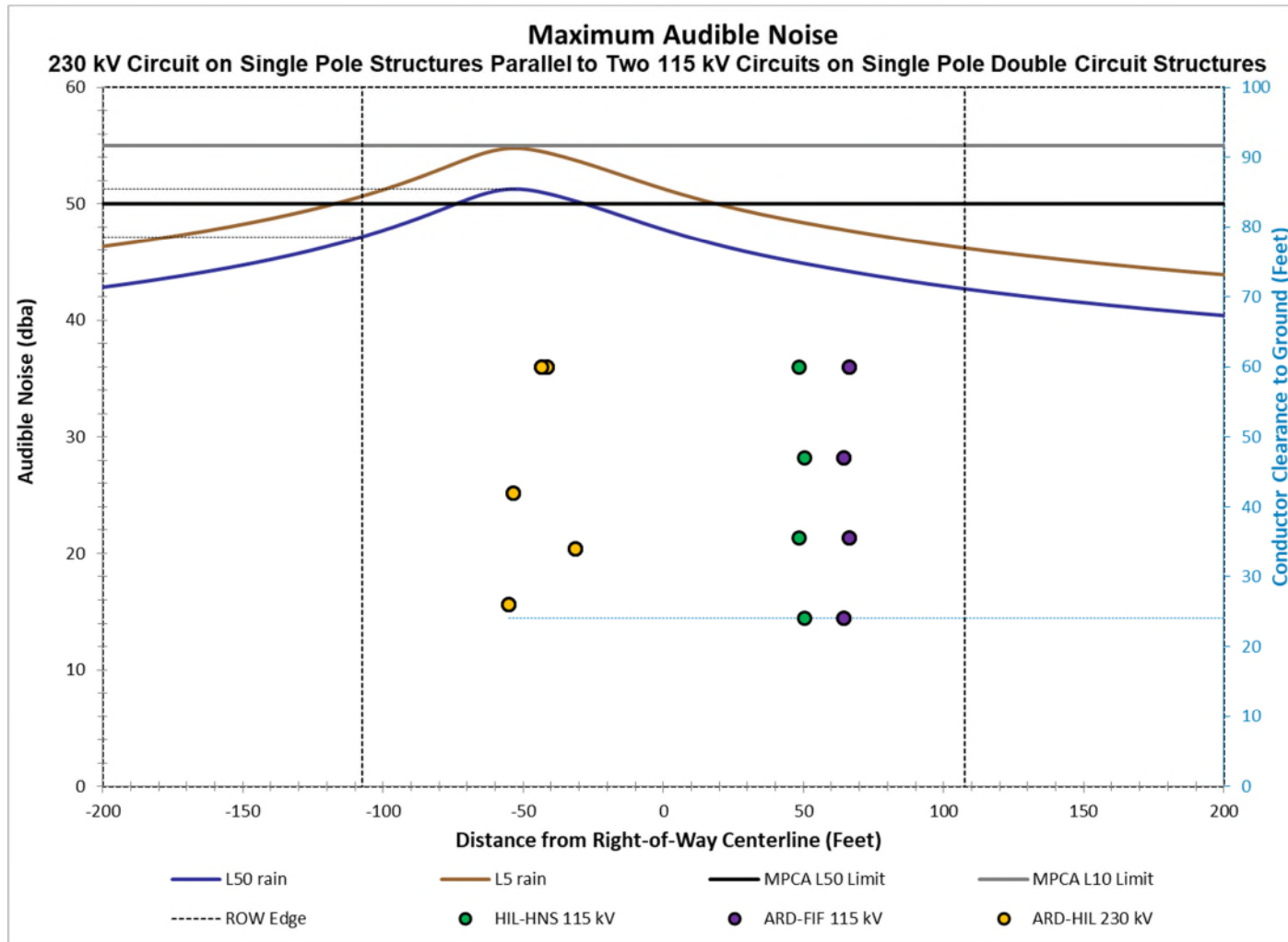
RESULTS	Max	Edge of ROW		Value at Distance from Centerline															
		Left	Right																
Distance from Centerline (feet)	-47.0	-107.5	107.5	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300	
Value (mG)	237.89	41.01	26.49	3.00	7.82	16.23	50.91	121.71	236.03	173.92	88.73	72.62	168.65	108.94	35.06	8.75	4.43	1.97	

Figure 5C: Corridor Configuration – Project + Existing 115 kV Double Circuit Monopole, Existing 230 kV Monopole



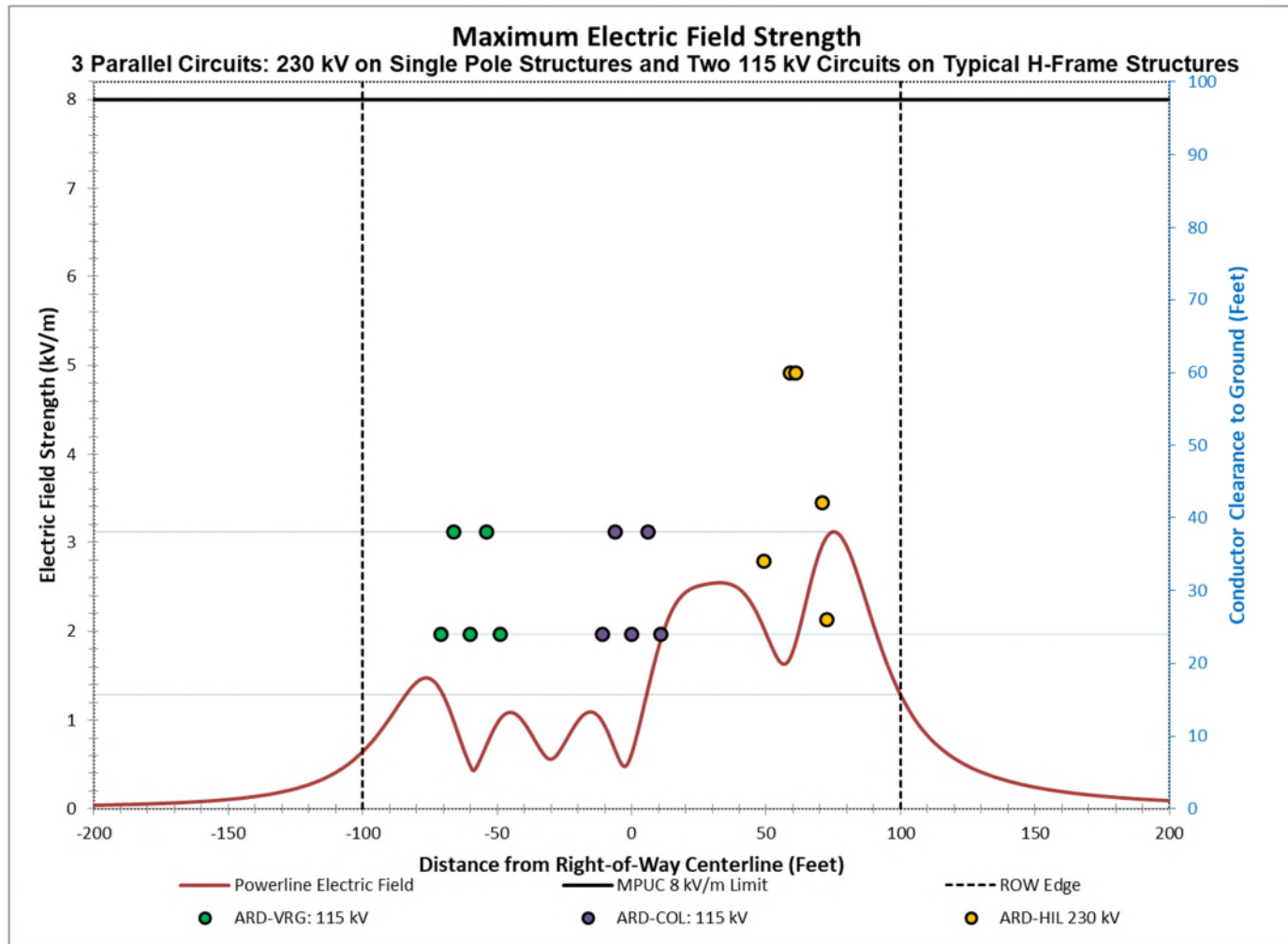
RESULTS	Max	Edge of ROW		Value at Distance from Centerline															
		Left	Right																
Distance from Centerline (feet)	-47.0	-107.5	107.5	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300	
Value (mG)	44.91	7.73	2.32	0.56	1.47	3.05	9.61	23.05	44.62	32.38	16.01	14.25	24.35	9.29	2.78	1.21	0.70	0.33	

Figure 5D: Corridor Configuration – Project + Existing 115 kV Double Circuit Monopole, Existing 230 kV Monopole



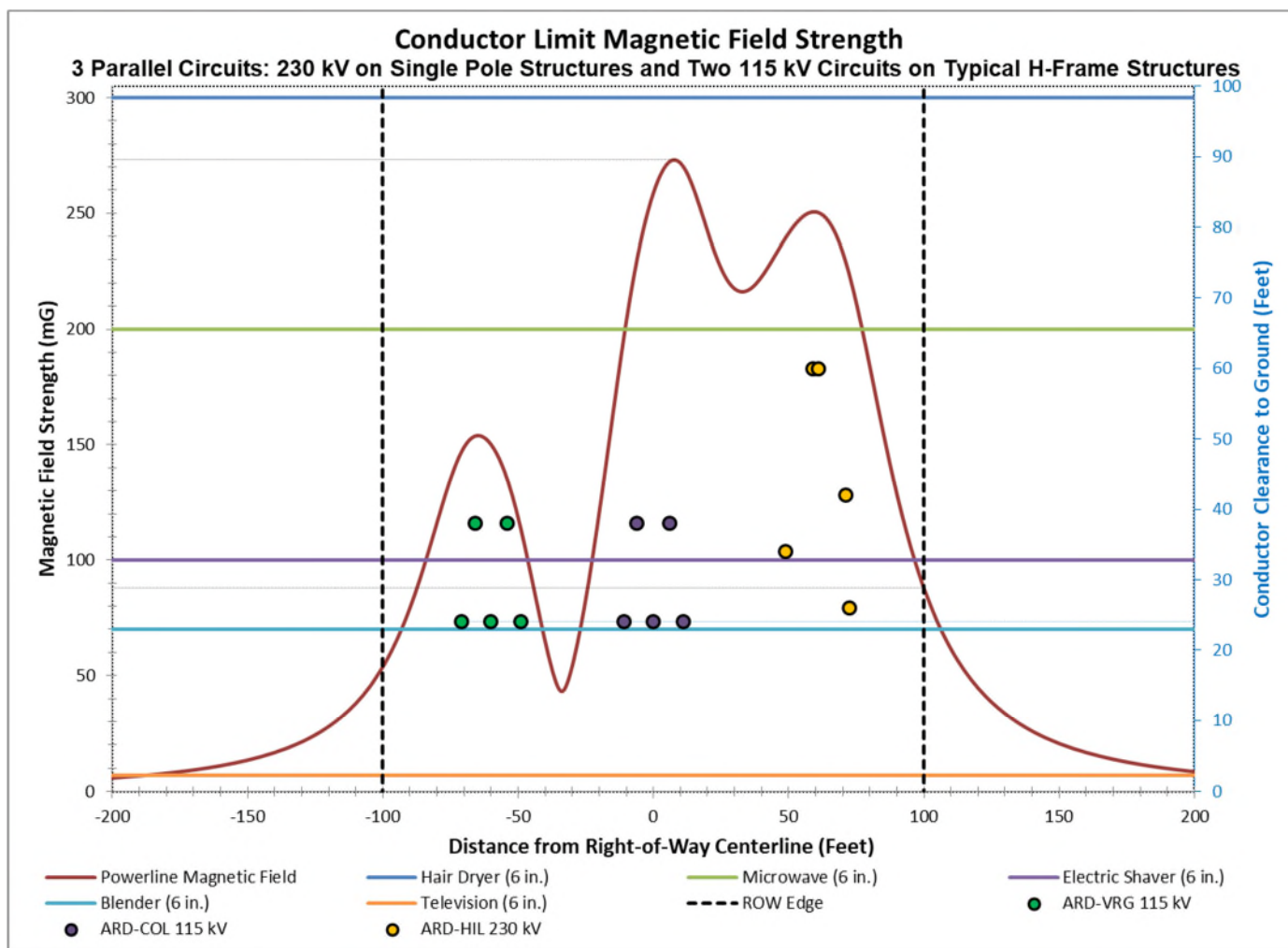
RESULTS	Max	Edge of ROW		Value at Distance from Centerline														
		Left	Right	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300
Distance from Centerline (feet)	-53.0	-107.5	107.5															
Value (dba)	51.27	47.15	42.69	40.35	42.82	44.73	47.70	49.89	51.24	49.76	47.79	46.13	44.87	43.83	42.93	41.51	40.40	38.74

Figure 6A: Corridor Configuration – Project 230 kV Monopole, Existing 115 kV H-Frame, Existing 115 kV H-Frame



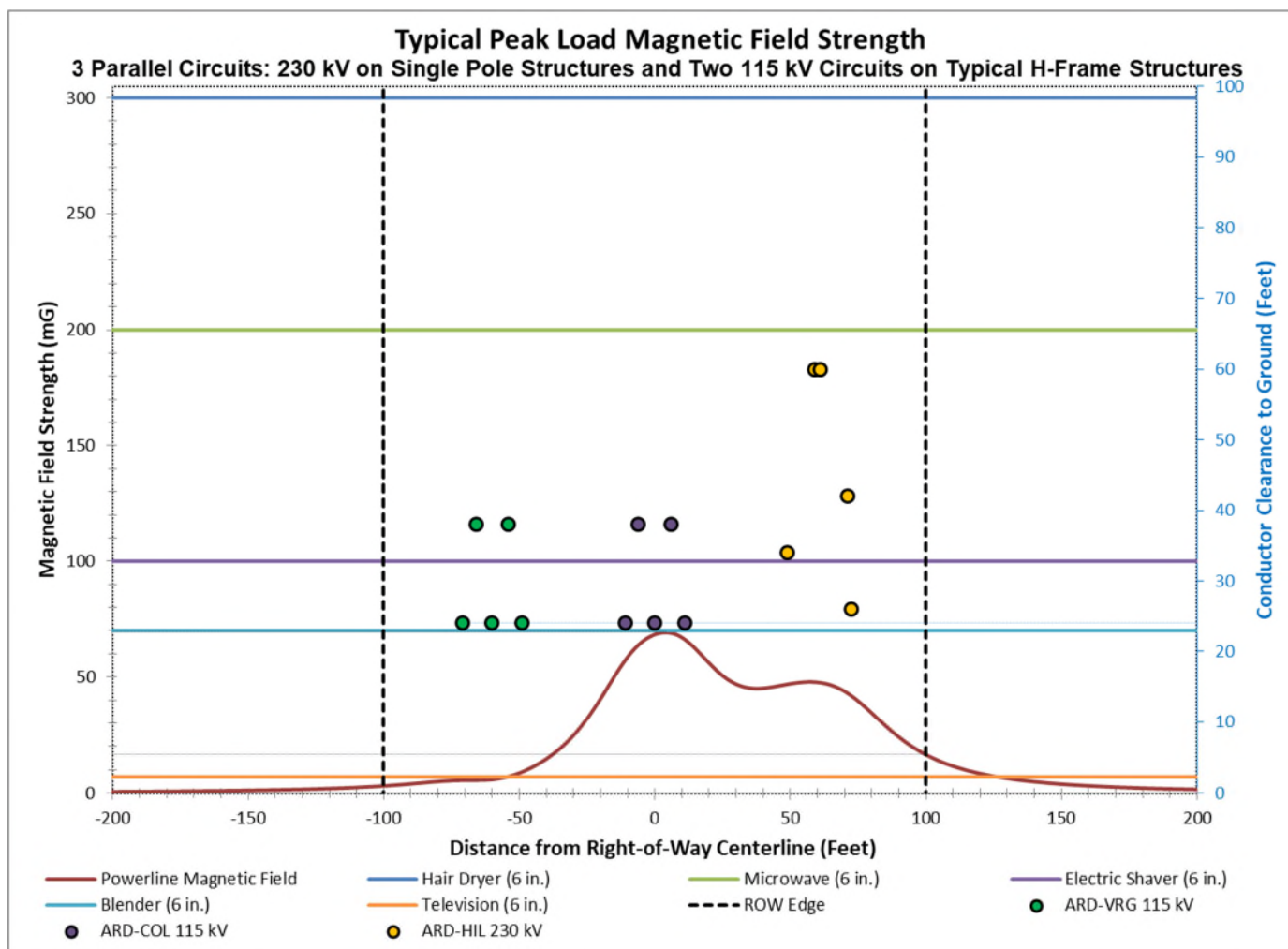
RESULTS	Max	Edge of ROW		Value at Distance from Centerline															
		Left	Right																
Distance from Centerline (feet)	75.0	-100.0	100.0	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300	
Value (kV/m)	3.12	0.65	1.28	0.01	0.04	0.11	0.65	1.47	0.97	0.74	0.62	2.51	1.97	3.12	1.28	0.24	0.09	0.03	

Figure 6B: Corridor Configuration – Project 230 kV Monopole, Existing 115 kV H-Frame, Existing 115 kV H-Frame



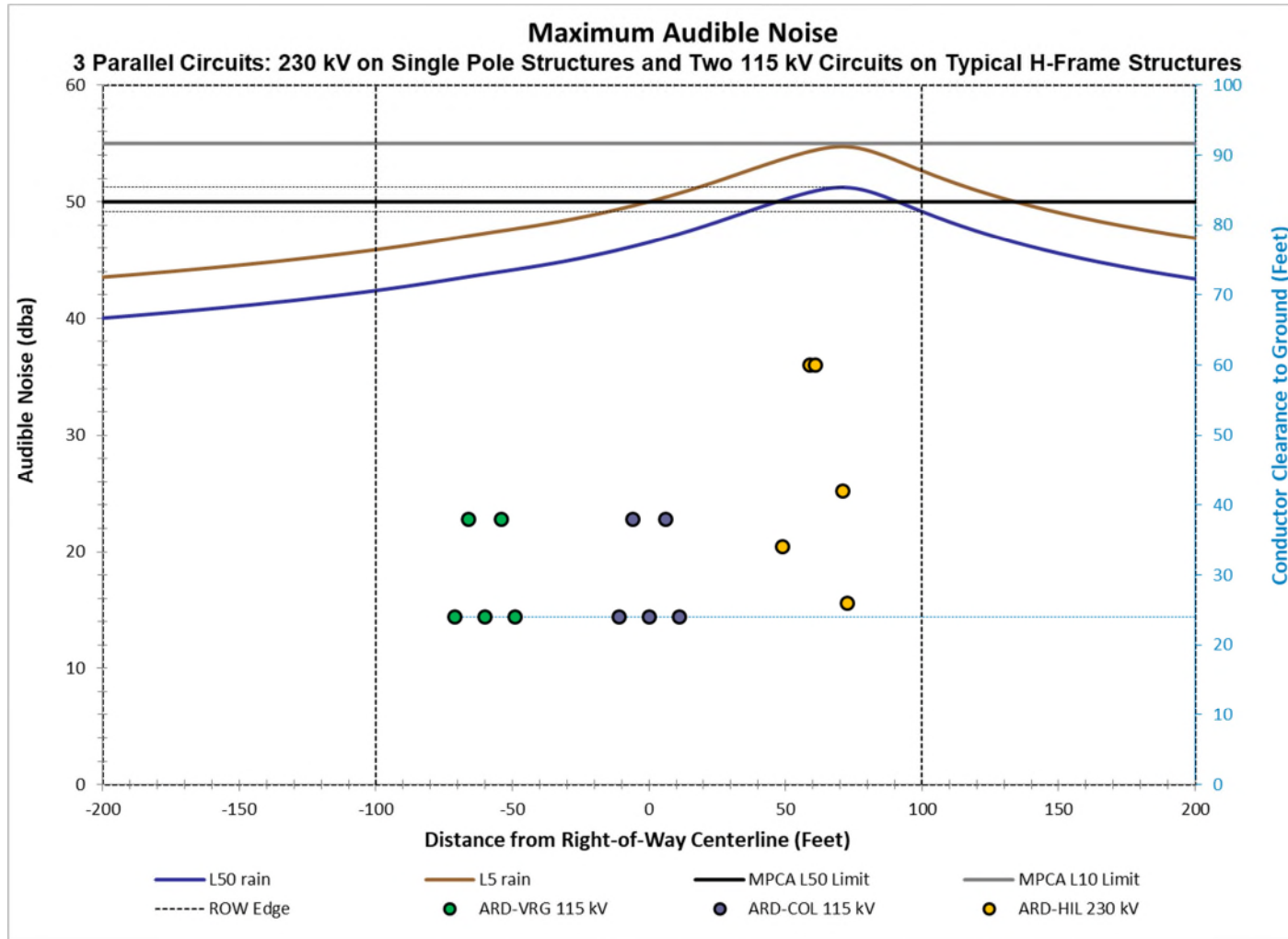
RESULTS	Max	Edge of ROW		Value at Distance from Centerline														
		Left	Right															
Distance from Centerline (feet)	8.0	-100.0	100.0	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300
Value (mG)	273.07	53.83	87.81	2.09	5.84	13.46	53.83	135.20	118.34	83.15	258.79	226.37	241.41	211.47	87.81	20.59	8.52	2.89

Figure 6C: Corridor Configuration – Project 230 kV Monopole, Existing 115 kV H-Frame, Existing 115 kV H-Frame



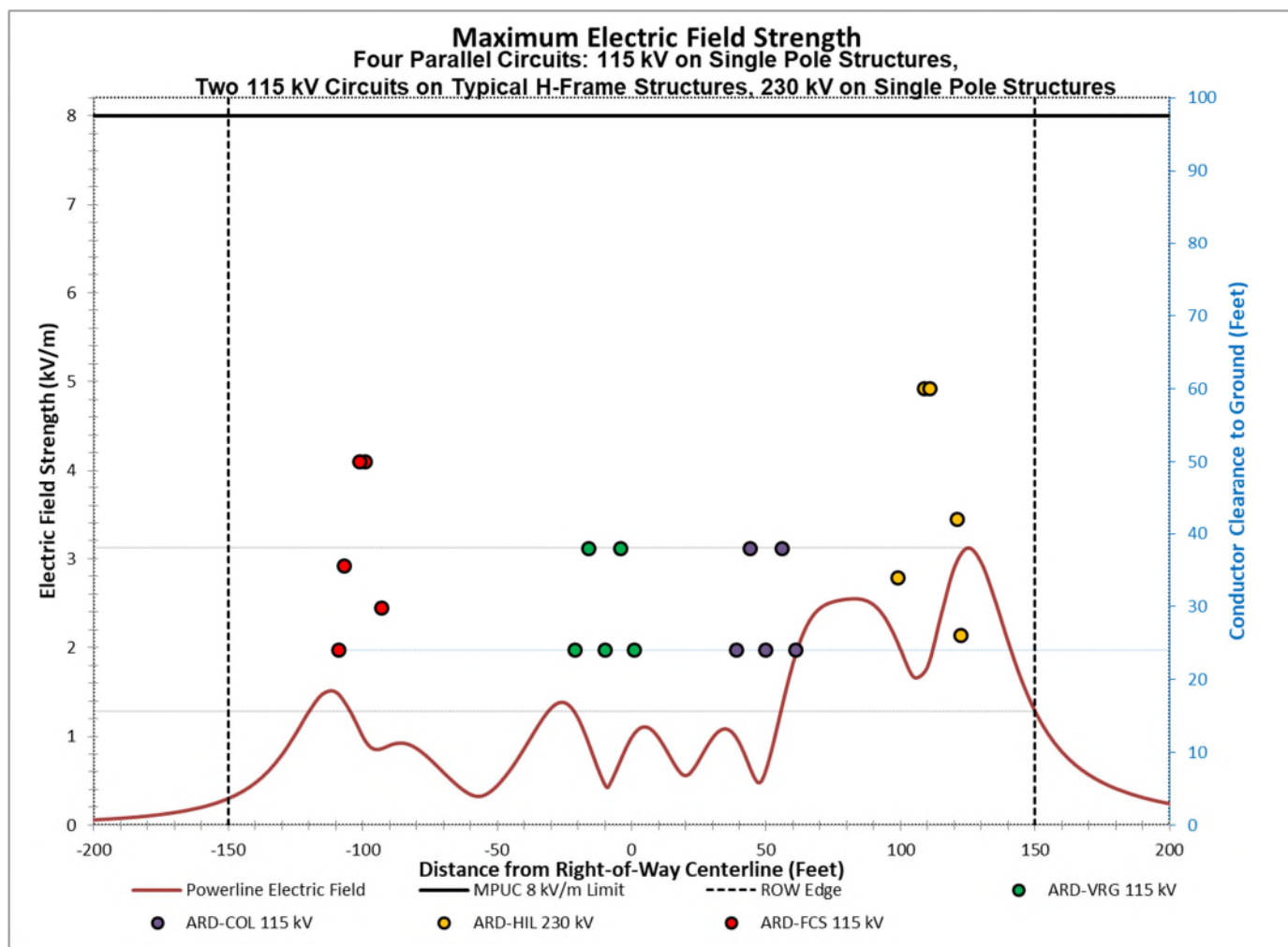
RESULTS	Max	Edge of ROW		Value at Distance from Centerline															
		Left	Right																
Distance from Centerline (feet)	4.0	-100.0	100.0	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300	
Value (mG)	69.21	3.11	16.44	0.28	0.63	1.18	3.11	5.34	8.62	31.95	68.35	50.55	47.06	39.58	16.44	3.87	1.60	0.54	

Figure 6D: Corridor Configuration – Project 230 kV Monopole, Existing 115 kV H-Frame, Existing 115 kV H-Frame



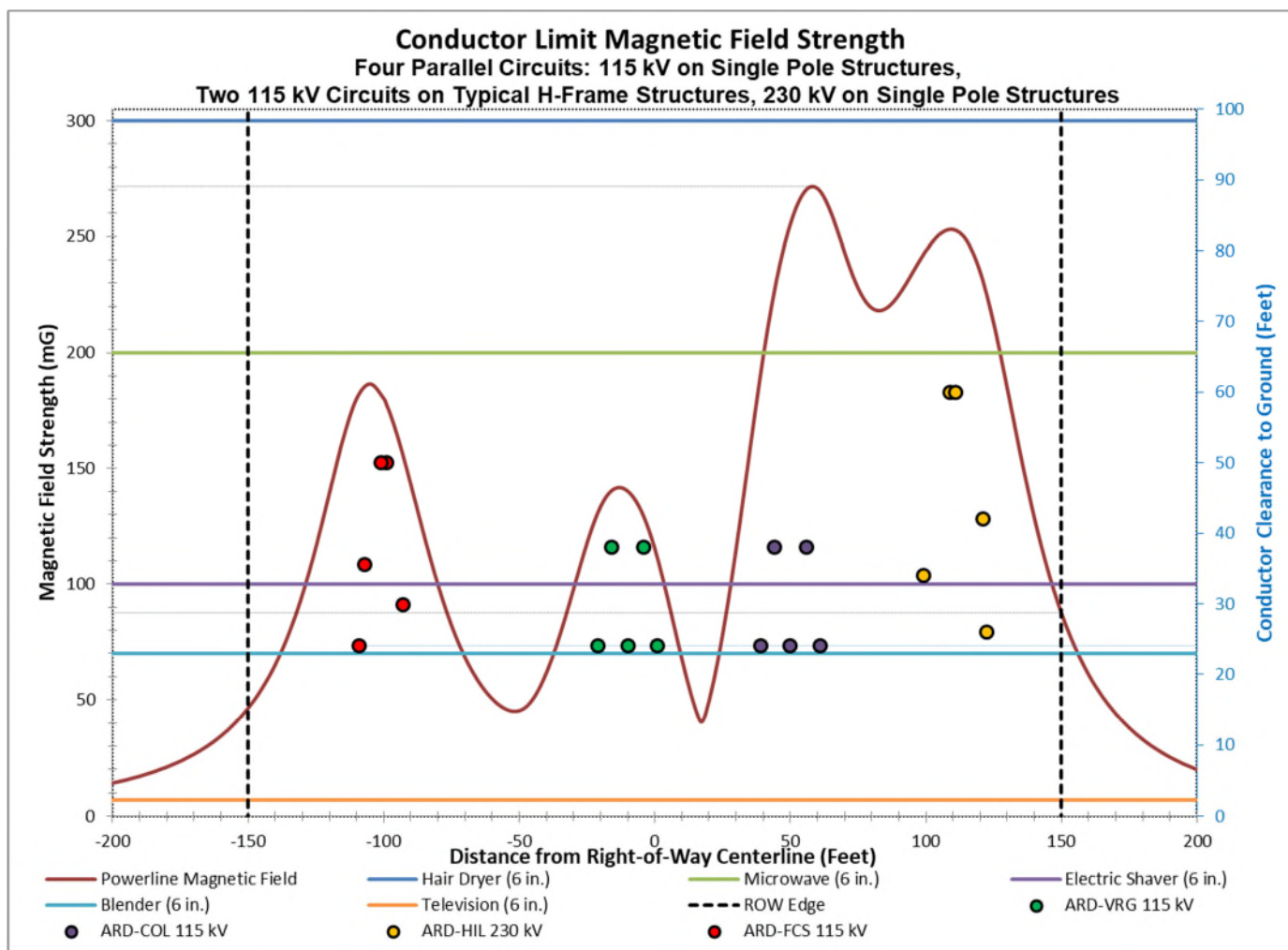
RESULTS	Max	Edge of ROW		Value at Distance from Centerline															
		Left	Right																
Distance from Centerline (feet)	71.0	-100.0	100.0	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300	
Value (dba)	51.23	42.38	49.16	38.45	40.02	41.05	42.38	43.23	44.14	45.15	46.51	48.27	50.23	51.17	49.16	45.57	43.37	40.66	

Figure 7A: Corridor Configuration – Project 230 kV Monopole, Existing 115 kV H-Frame, Existing 115 kV H-Frame, Existing 115 kV Single Pole



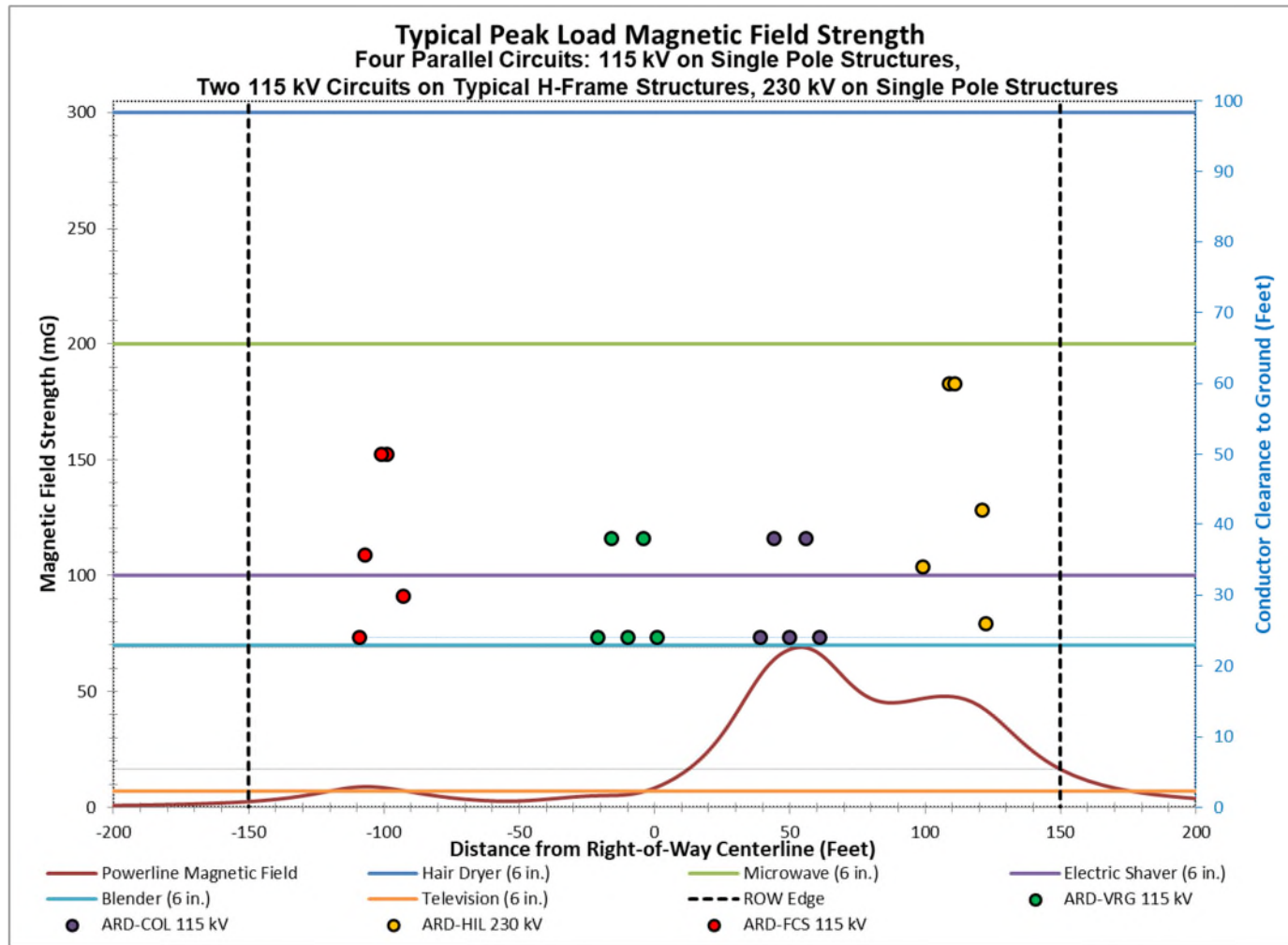
RESULTS	Max	Edge of ROW		Value at Distance from Centerline														
		Left	Right	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300
Distance from Centerline (feet)	125.0	-150.0	150.0	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300
Value (kV/m)	3.12	0.30	1.28	0.01	0.06	0.30	1.00	0.74	0.44	1.38	0.99	0.73	0.63	2.52	1.98	1.28	0.24	0.04

Figure 7B: Corridor Configuration – Project 230 kV Monopole, Existing 115 kV H-Frame, Existing 115 kV H-Frame, Existing 115 kV Single Pole



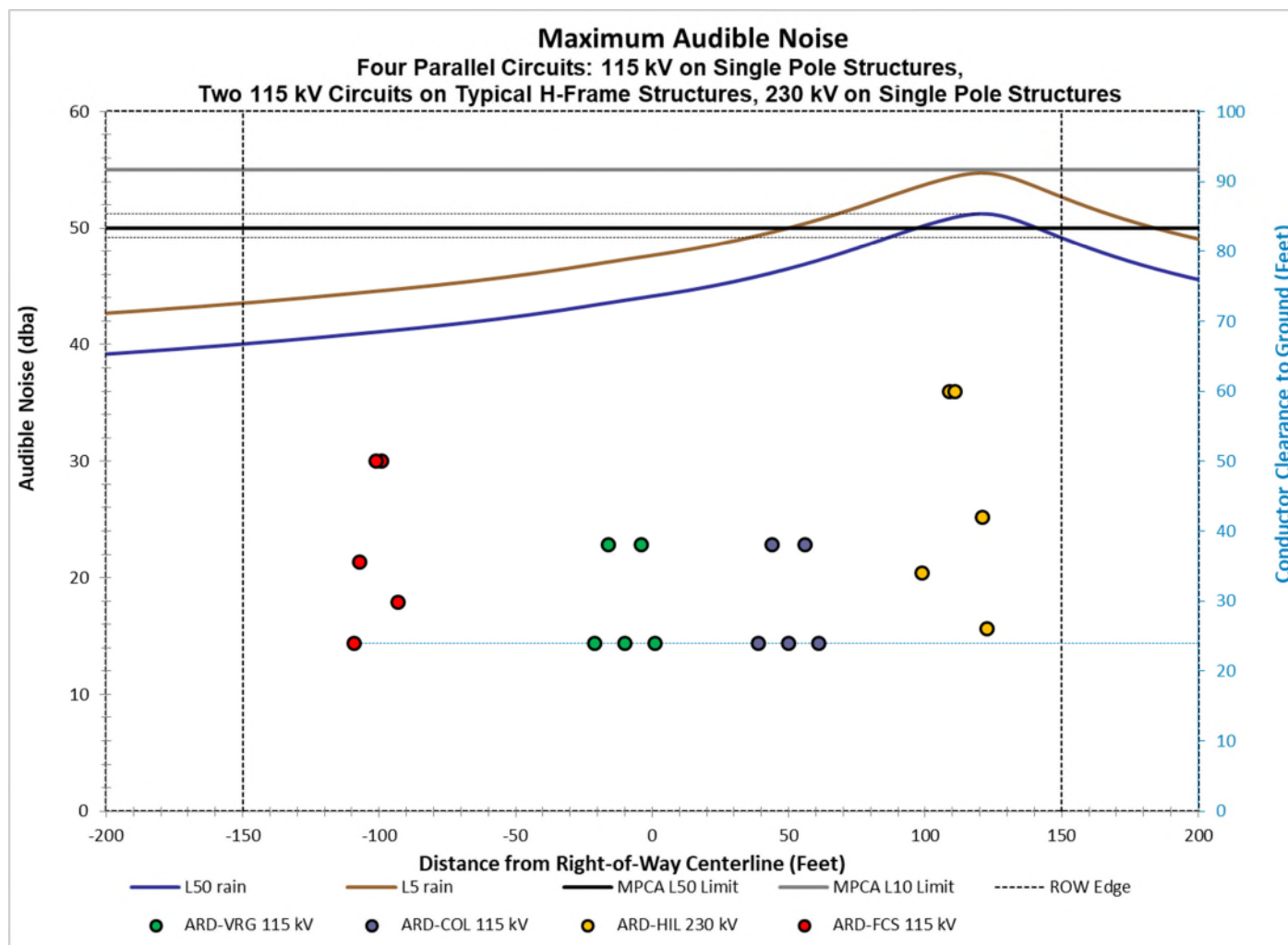
RESULTS	Max	Edge of ROW		Value at Distance from Centerline														
		Left	Right	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300
Distance from Centerline (feet)	58.0	-150.0	150.0															
Value (mG)	271.60	46.39	87.39	3.98	14.20	46.39	180.29	82.15	45.25	117.74	115.23	78.17	255.47	227.84	244.03	87.39	19.97	4.22

Figure 7C: Corridor Configuration – Project 230 kV Monopole, Existing 115 kV H-Frame, Existing 115 kV H-Frame, Existing 115 kV Single Pole



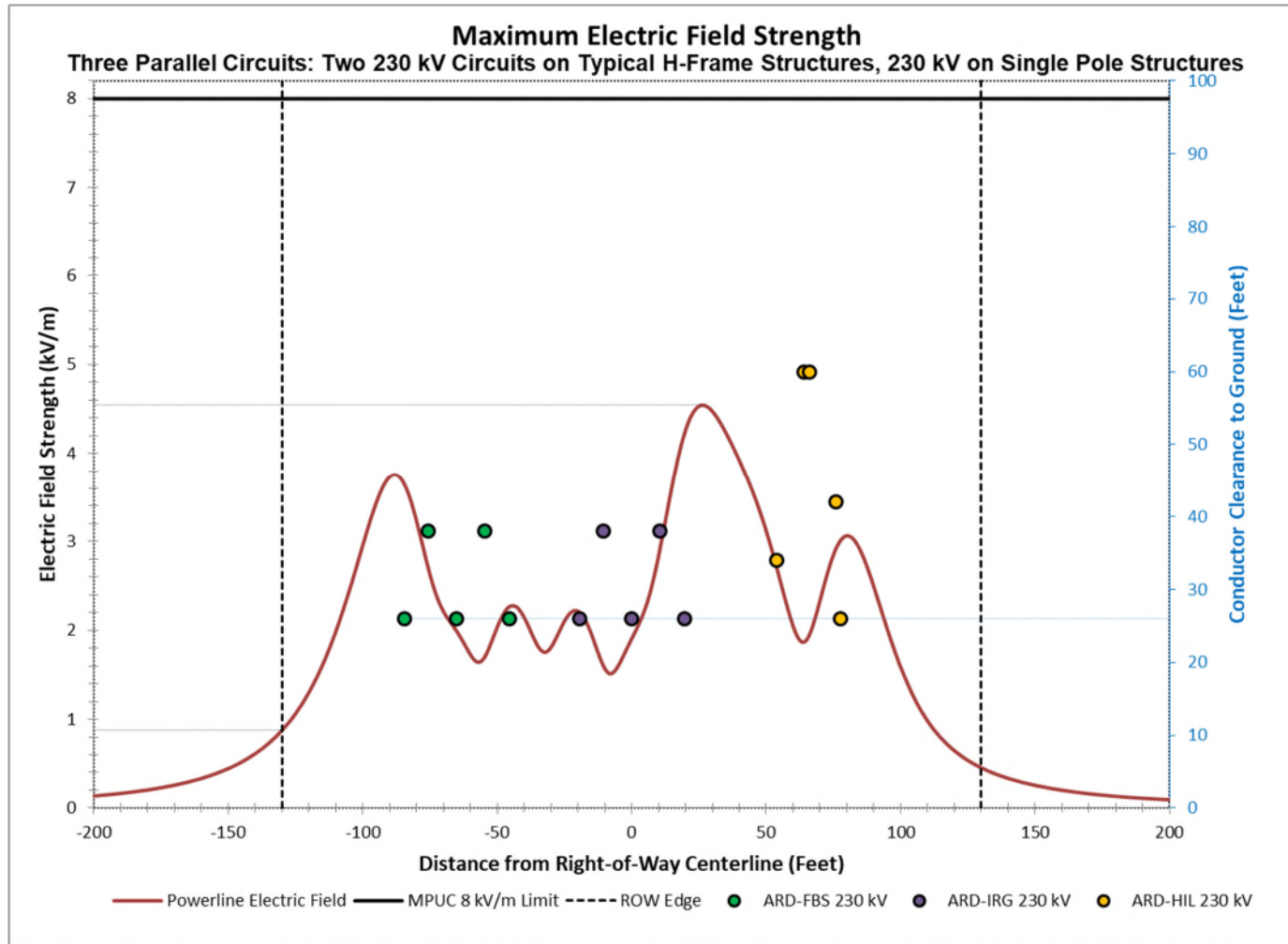
RESULTS	Max	Edge of ROW		Value at Distance from Centerline														
		Left	Right	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300
Distance from Centerline (feet)	54.0	-150.0	150.0															
Value (mG)	69.08	2.50	16.42	0.26	0.82	2.50	8.47	4.10	2.76	4.86	8.39	31.69	68.17	50.62	47.19	16.42	3.84	0.84

Figure 7D: Corridor Configuration – Project 230 kV Monopole, Existing 115 kV H-Frame, Existing 115 kV H-Frame, Existing 115 kV Single Pole



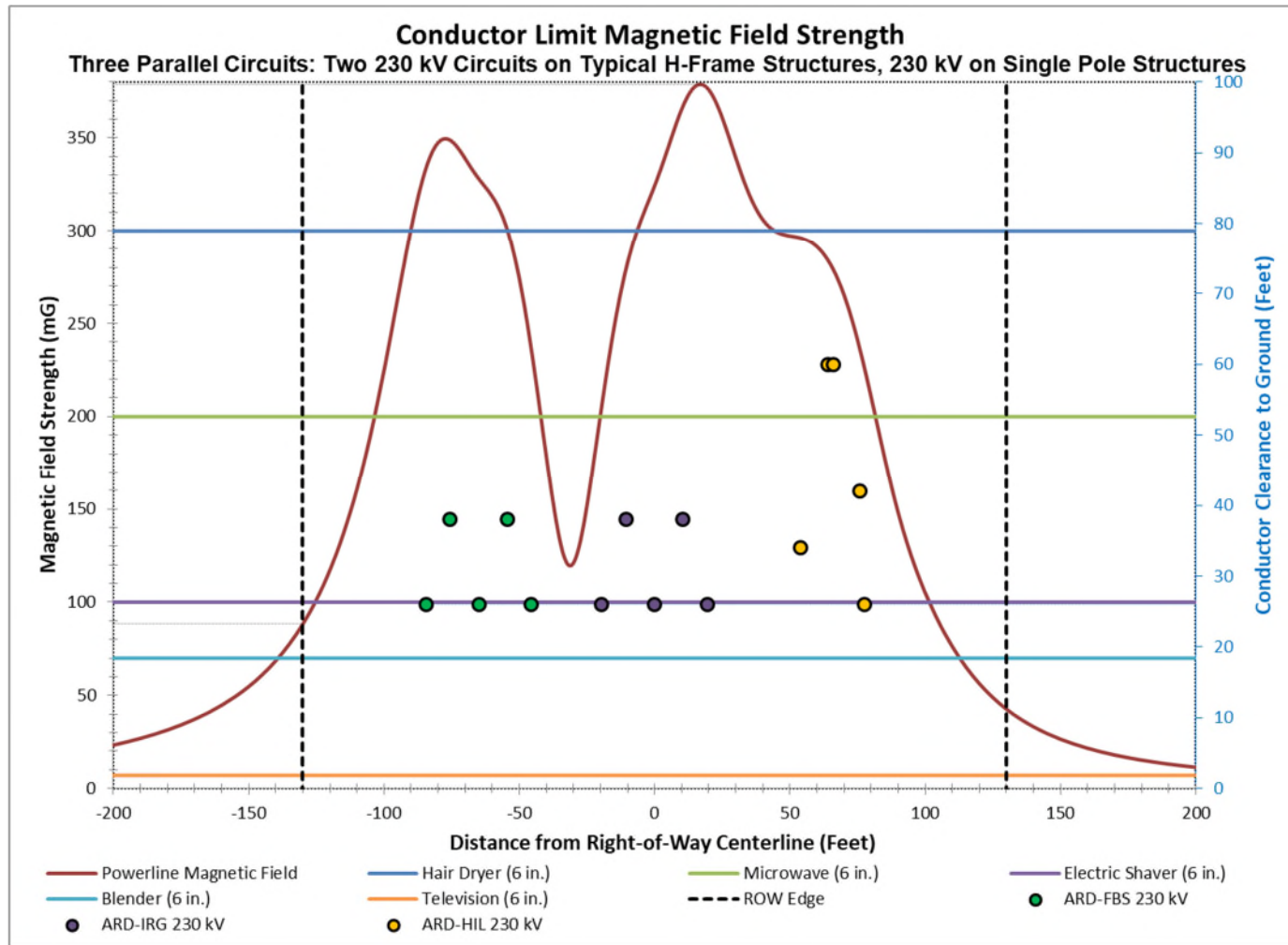
RESULTS	Max	Edge of ROW		Value at Distance from Centerline															
		Left	Right																
Distance from Centerline (feet)	120.0	-150.0	150.0	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300	
Value (dba)	51.23	40.05	49.16	37.82	39.19	40.05	41.10	41.69	42.39	43.24	44.14	45.16	46.51	48.27	50.23	49.16	45.57	41.84	

Figure 8A: Corridor Configuration – Project 230 kV Monopole, Existing 230 kV H-Frame, Existing 230 kV H-Frame



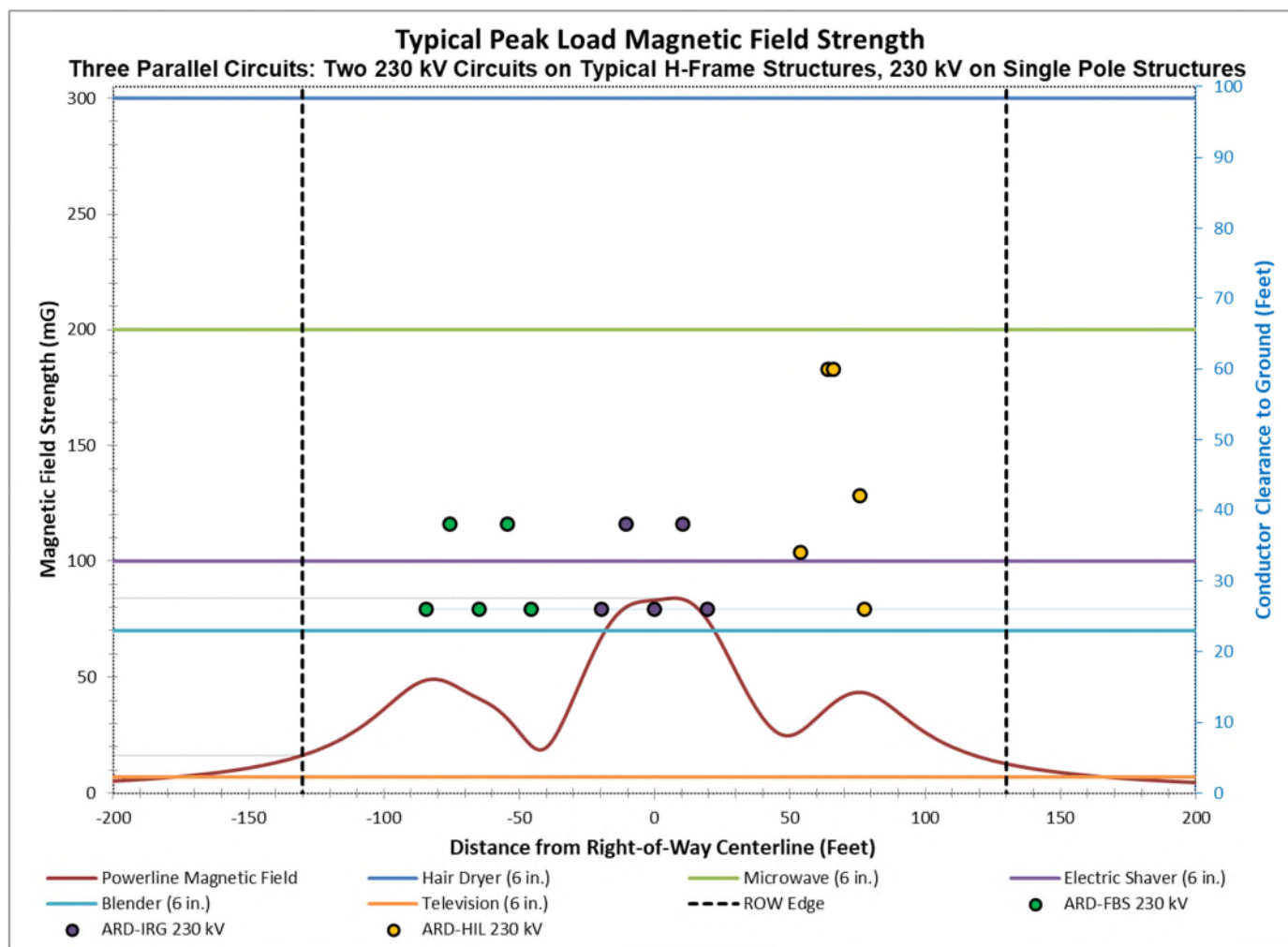
RESULTS	Max	Edge of ROW		Value at Distance from Centerline															
		Left	Right																
Distance from Centerline (feet)	26.0	-130.0	130.0	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300	
Value (kV/m)	4.54	0.88	0.45	0.04	0.13	0.44	2.96	2.63	2.04	2.10	1.91	4.53	3.12	2.85	1.59	0.25	0.09	0.03	

Figure 8B: Corridor Configuration – Project 230 kV Monopole, Existing 230 kV H-Frame, Existing 230 kV H-Frame



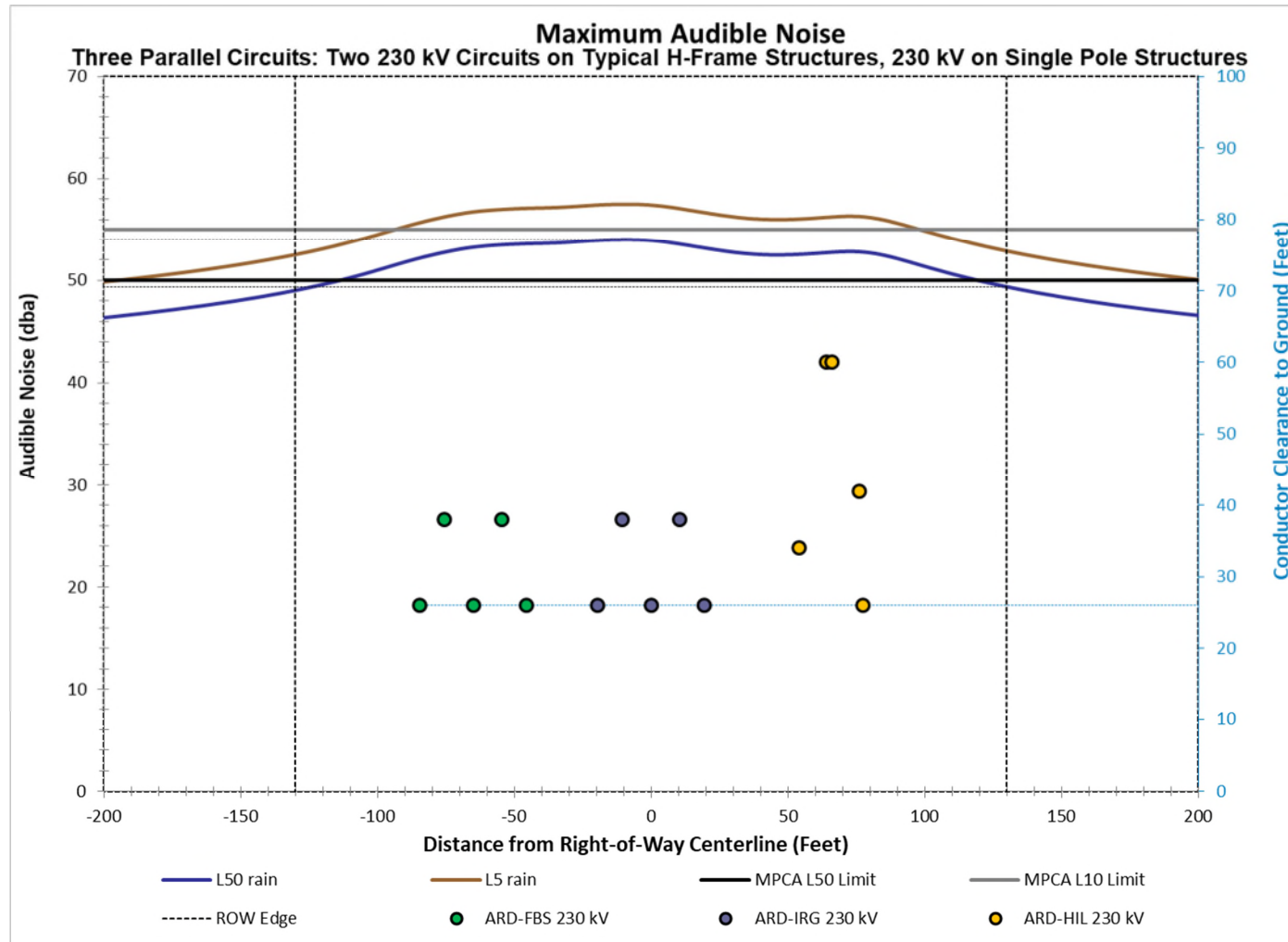
RESULTS	Max	Edge of ROW		Value at Distance from Centerline														
		Left	Right															
Distance from Centerline (feet)	17.0	-130.0	130.0	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300
Value (mG)	378.70	88.26	42.63	8.13	23.31	54.77	224.80	348.17	274.05	151.98	324.30	360.68	297.24	240.99	104.99	26.46	11.37	4.37

Figure 8C: Corridor Configuration – Project 230 kV Monopole, Existing 230 kV H-Frame, Existing 230 kV H-Frame



RESULTS	Max	Edge of ROW		Value at Distance from Centerline														
		Left	Right															
Distance from Centerline (feet)	7.0	-130.0	130.0	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300
Value (mG)	84.04	16.36	12.67	2.07	5.20	10.85	36.30	47.06	26.24	54.38	83.13	63.84	24.87	43.49	26.20	8.89	4.59	1.93

Figure 8D: Corridor Configuration – Project 230 kV Monopole, Existing 230 kV H-Frame, Existing 230 kV H-Frame



RESULTS	Max	Edge of ROW		Value at Distance from Centerline														
		Left	Right															
Distance from Centerline (feet)	-9.0	-130.0	130.0	-300	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	300
Value (dba)	53.99	49.02	49.37	44.16	46.35	48.07	51.00	52.79	53.55	53.83	53.92	52.95	52.50	52.81	51.37	48.38	46.57	44.30