

**FLAG RADIO, INC.**  
**NEW AM RADIO STATION**  
**1550 kHz - 0.45/10.0 kW DAN**  
**BUNNELL, FLORIDA**  
**January 2000**

**EXHIBIT #1A**

**New AM - Bunnell, Florida - 1550 kHz - 0.45 kW - DAN**

Theoretical Pattern RMS: 214.08 mV/m at 1 km

Standard Pattern RMS: 225.07 mV/m at 1 km

ERSS: 428.67 mV/m at 1 km

Multiplying Constant (K factor): 326.13 mV/m at 1 km

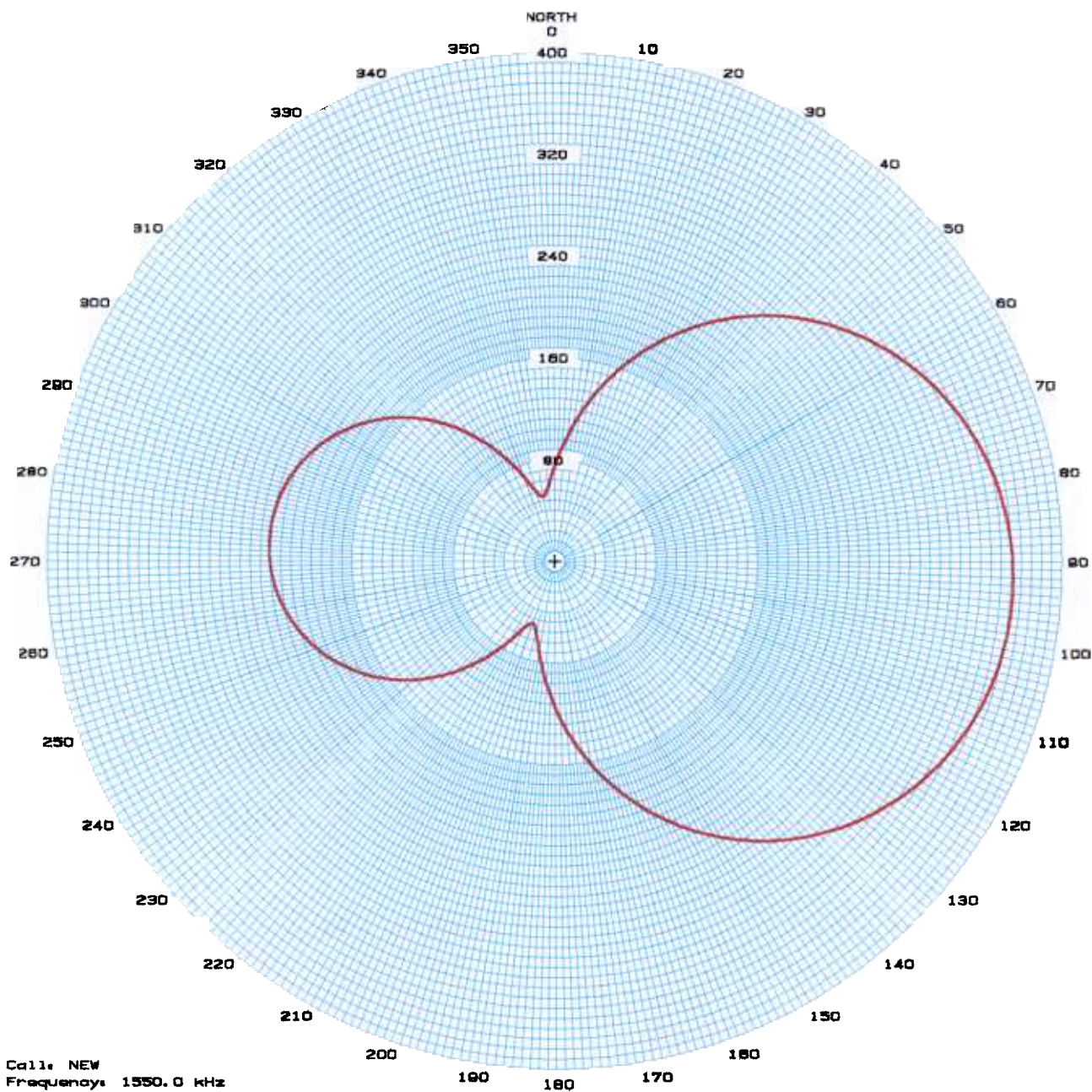
Q Factor (elevation angle = 0 degrees): 10.72

ANTENNA TOWER PARAMETERS:

##	Field Ratio	Phase (degs.)	Spac. (degs.)	Bear. (degs.)	TL SW	HT (degs.)	TLA (degs.)	TLB (degs.)	TLC (degs.)	TLD (degs.)
1	1.000	.0	.0	.0	0	90.7	.0	.0	.0	.0
2	.853	-165.8	54.8	94.7	0	90.7	.0	.0	.0	.0

CALCULATED PATTERN DATA:

Azimuth (degs.)	Horizontal Plane E(TH)	Horizontal Plane E(STD)	Azimuth (degs.)	Horizontal Plane E(TH)	Horizontal Plane E(STD)
.0	69.98	74.34	180.0	108.94	114.94
5.0	89.82	94.98	185.0	87.30	92.36
10.0	111.61	117.73	190.0	67.83	72.11
15.0	134.10	141.26	195.0	53.23	57.01
20.0	156.62	164.84	200.0	47.96	51.60
25.0	178.72	187.99	205.0	54.20	58.02
30.0	200.06	210.37	210.0	68.13	72.42
35.0	220.42	231.71	215.0	85.29	90.25
40.0	239.58	251.82	220.0	103.27	109.02
45.0	257.40	270.51	225.0	120.95	127.50
50.0	273.74	287.65	230.0	137.73	145.05
55.0	288.51	303.15	235.0	153.24	161.30
60.0	301.64	316.92	240.0	167.27	175.99
65.0	313.07	328.91	245.0	179.63	188.95
70.0	322.75	339.08	250.0	190.23	200.06
75.0	330.68	347.40	255.0	198.97	209.22
80.0	336.83	353.85	260.0	205.79	216.38
85.0	341.20	358.43	265.0	210.66	221.48
90.0	343.78	361.14	270.0	213.54	224.50
95.0	344.56	361.97	275.0	214.43	225.43
100.0	343.56	360.91	280.0	213.30	224.25
105.0	340.77	357.98	285.0	210.18	220.98
110.0	336.19	353.18	290.0	205.08	215.63
115.0	329.82	346.50	295.0	198.02	208.23
120.0	321.68	337.96	300.0	189.05	198.83
125.0	311.79	327.57	305.0	178.24	187.49
130.0	300.15	315.36	310.0	165.67	174.31
135.0	286.83	301.38	315.0	151.46	159.43
140.0	271.86	285.68	320.0	135.77	143.01
145.0	255.34	268.34	325.0	118.87	125.32
150.0	237.35	249.47	330.0	101.11	106.76
155.0	218.04	229.21	335.0	83.15	88.03
160.0	197.55	207.73	340.0	66.23	70.44
165.0	176.10	185.25	345.0	52.94	56.72
170.0	153.94	162.02	350.0	47.97	51.61
175.0	131.39	138.42	355.0	54.59	58.41



Call: NEW  
 Frequency: 1550.0 kHz  
 Power: .450 kW  
 ERSS: 428.87 mV/m at 1 km

Q Factor at 0 degrees:  
 10.72 mV/m at 1 km

Theoretical Pattern RMS:  
 214.08 mV/m at 1 km

Standard Pattern RMS:  
 225.07 mV/m at 1 km

#### TOWER PARAMETERS

#	Field	Phase	Spec.	Bedr.	TL	HT	TLA	TLB	TLC	TLD
Ratio	(deg.)	(deg.)	(deg.)	(deg.)	SW	(deg.)	(deg.)	(deg.)	(deg.)	(deg.)
1 1.000	.0	.0	.0	0	90.7	.0	.0	.0	.0	.0
2 .853	-165.8	54.8	94.7	0	90.7	.0	.0	.0	.0	.0

**EXHIBIT #1B**  
**FLAG RADIO, INC.**  
**NEW AM RADIO STATION**  
**1550 KHz**  
**0.45/10.0 kW DAN**  
**BUNNELL, FLORIDA**  
**January 2000**

**STANDARD HORIZONTAL**  
**PLANE PATTERN**

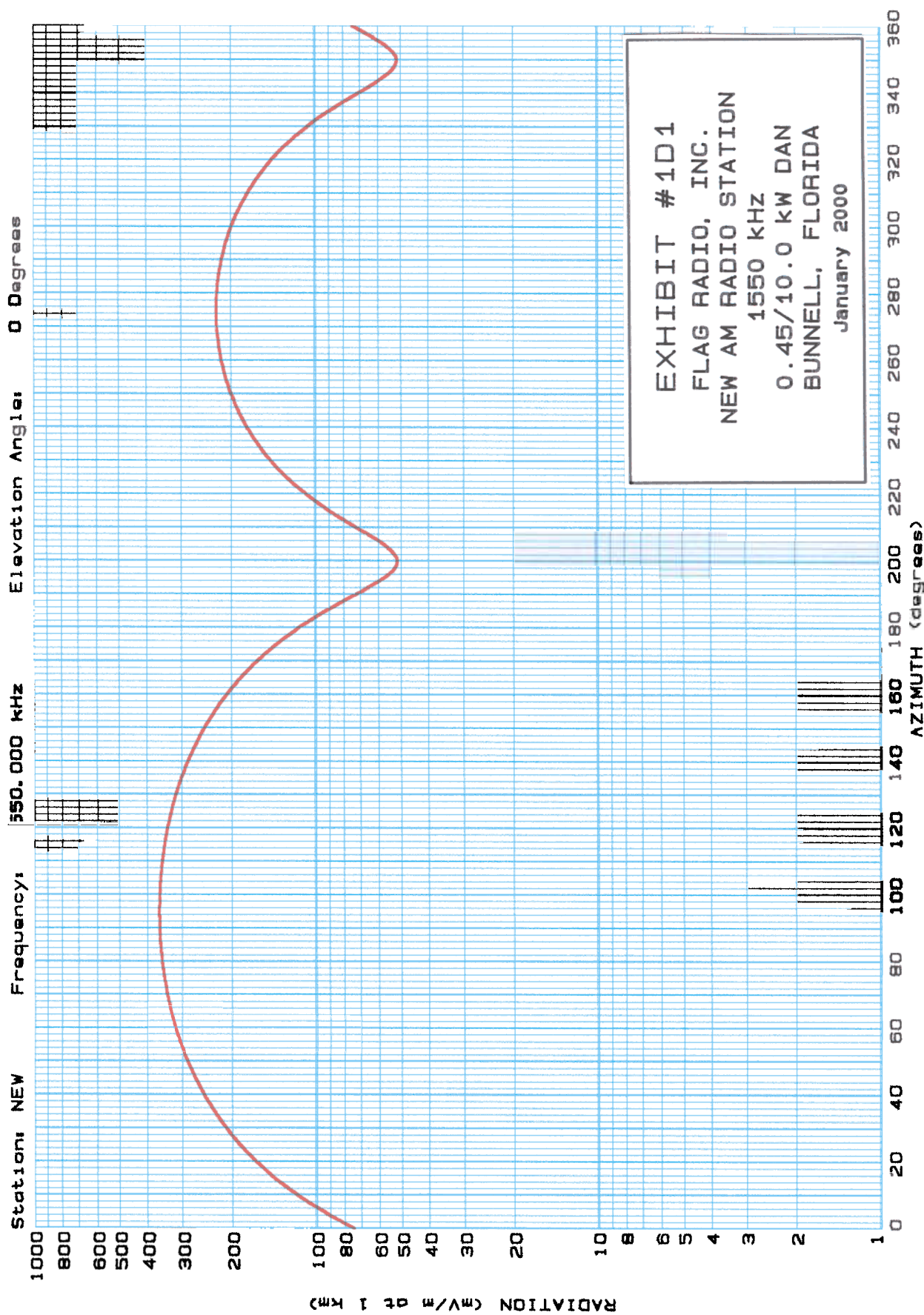
**FLAG RADIO, INC.**  
**NEW AM RADIO STATION**  
**1550 kHz - 0.45/10.0 kW DAN**  
**BUNNELL, FLORIDA**  
**January 2000**

**EXHIBIT #1C**

**Calculated Standard Elevated Pattern Data**

Azimuth (degs.)	Elevation (degs.)	Angle (degrees) .00	5.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00
.0	74.34	73.99	72.96	71.27	68.95	66.07	62.67	58.83	54.60	50.05	45.23	40.19	34.95	
5.0	94.98	94.45	92.86	90.27	86.76	82.44	77.41	71.81	65.76	59.40	52.83	46.14	39.41	
10.0	117.73	116.98	114.75	111.14	106.27	100.30	93.42	85.85	77.77	69.40	60.90	52.42	44.08	
15.0	141.26	140.28	137.40	132.73	126.43	118.76	109.96	100.33	90.16	79.70	69.20	58.86	48.85	
20.0	164.84	163.64	160.10	154.36	146.66	137.28	126.56	114.88	102.60	90.05	77.54	65.34	53.65	
	187.99	186.57	182.39	175.62	166.54	155.49	142.91	129.22	114.87	100.27	85.79	71.75	58.40	
30.0	210.37	208.75	203.95	196.19	185.78	173.15	158.76	143.14	126.79	110.21	93.82	78.00	63.04	
35.0	231.71	229.89	224.52	215.82	204.17	190.02	173.93	156.48	138.24	119.76	101.55	84.02	67.52	
40.0	251.81	249.81	243.90	234.33	221.51	205.96	188.27	169.10	149.08	128.83	108.89	89.75	71.78	
45.0	270.50	268.34	261.93	251.56	237.66	220.81	201.65	180.89	159.22	137.32	115.78	95.13	75.80	
50.0	287.65	285.33	278.47	267.38	252.51	234.47	213.98	191.76	168.59	145.17	122.16	100.12	79.53	
55.0	303.15	300.69	293.43	281.69	265.95	246.86	225.15	201.64	177.10	152.32	127.98	104.68	82.94	
60.0	316.92	314.34	306.74	294.42	277.91	257.89	235.12	210.45	184.72	158.72	133.19	108.78	86.00	
65.0	328.91	326.23	318.32	305.51	288.35	267.52	243.83	218.16	191.38	164.33	137.77	112.37	88.70	
70.0	339.07	336.31	328.15	314.93	297.20	275.70	251.24	224.73	197.06	169.12	141.68	115.45	91.01	
75.0	347.39	344.56	336.19	322.64	304.46	282.41	257.32	230.12	201.73	173.06	144.90	117.99	92.91	
80.0	353.85	350.96	342.43	328.62	310.10	287.62	262.05	234.32	205.37	176.13	147.41	119.97	94.40	
85.0	358.43	355.51	346.87	332.87	314.11	291.33	265.41	237.30	207.96	178.31	149.21	121.38	95.46	
90.0	361.14	358.19	349.48	335.38	316.47	293.52	267.40	239.07	209.49	179.61	150.27	122.22	96.09	
95.0	361.96	359.01	350.28	336.15	317.20	294.19	268.00	239.61	209.96	180.00	150.59	122.47	96.29	
100.0	360.91	357.97	349.27	335.17	316.28	293.33	267.23	238.92	209.37	179.50	150.18	122.15	96.04	
105.0	357.98	355.06	346.43	332.45	313.71	290.96	265.08	237.01	207.71	178.10	149.03	121.24	95.36	
110.0	353.17	350.29	341.78	327.99	309.51	287.07	261.55	233.88	204.99	175.80	147.15	119.76	94.24	
115.0	346.49	343.67	335.32	321.80	303.68	281.68	256.66	229.54	201.23	172.63	144.55	117.71	92.70	
120.0	337.95	335.20	327.06	313.89	296.23	274.79	250.42	224.00	196.43	168.59	141.25	115.11	90.75	
	327.56	324.90	317.02	304.27	287.18	266.44	242.86	217.30	190.63	163.70	137.26	111.97	88.39	
130.0	315.36	312.80	305.23	292.98	276.56	256.64	233.99	209.45	183.85	157.99	132.60	108.31	85.65	
135.0	301.38	298.94	291.73	280.05	264.41	245.44	223.88	200.51	176.13	151.50	127.31	104.16	82.54	
140.0	285.68	283.37	276.57	265.56	250.80	232.90	212.56	190.51	167.51	144.26	121.42	99.55	79.09	
145.0	268.34	266.19	259.84	249.56	235.79	219.09	200.10	179.52	158.04	136.33	114.98	94.51	75.33	
150.0	249.47	247.49	241.64	232.18	219.49	204.10	186.60	167.63	147.81	127.77	108.03	89.08	71.28	
155.0	229.21	227.42	222.11	213.52	202.01	188.04	172.15	154.91	136.89	118.64	100.64	83.31	66.99	
160.0	207.73	206.13	201.41	193.77	183.51	171.07	156.89	141.50	125.39	109.03	92.87	77.26	62.49	
165.0	185.24	183.86	179.75	173.10	164.18	153.33	140.97	127.52	113.41	99.05	84.81	70.98	57.84	
170.0	162.02	160.85	157.39	151.78	144.24	135.06	124.58	113.14	101.11	88.81	76.54	64.56	53.08	
175.0	138.42	137.47	134.67	130.12	124.00	116.53	107.97	98.59	88.66	78.46	68.20	58.08	48.28	
180.0	114.94	114.21	112.07	108.58	103.88	98.11	91.46	84.13	76.31	68.18	59.91	51.65	43.51	
185.0	92.36	91.85	90.33	87.86	84.51	80.37	75.55	70.18	64.37	58.23	51.88	45.40	38.86	
190.0	72.11	71.78	70.80	69.20	67.01	64.27	61.04	57.38	53.35	48.99	44.37	39.50	34.44	
195.0	57.01	56.78	56.10	54.98	53.46	51.58	49.36	46.85	44.07	41.03	37.74	34.20	30.39	
200.0	51.60	51.31	50.44	49.06	47.26	45.13	42.79	40.32	37.78	35.20	32.56	29.81	26.88	
205.0	58.01	57.51	56.04	53.70	50.66	47.12	43.33	39.51	35.86	32.50	29.47	26.72	24.11	
210.0	72.42	71.68	69.49	66.00	61.43	56.07	50.24	44.30	38.59	33.41	28.95	25.29	22.30	
215.0	90.25	89.28	86.42	81.84	75.80	68.66	60.81	52.68	44.71	37.32	30.86	25.60	21.57	
220.0	109.02	107.83	104.35	98.76	91.38	82.59	72.87	62.71	52.61	43.06	34.52	27.38	21.88	
225.0	127.49	126.12	122.07	115.56	106.94	96.65	85.22	73.20	61.15	49.62	39.13	30.14	23.03	
230.0	145.05	143.50	138.93	131.58	121.84	110.19	97.21	83.50	69.69	56.38	44.11	33.42	24.75	
235.0	161.30	159.59	154.55	146.45	135.70	122.82	108.45	93.23	77.84	62.93	49.08	36.86	26.76	
240.0	175.99	174.14	168.69	159.92	148.27	134.31	118.70	102.15	85.36	69.03	53.79	40.22	28.85	
245.0	188.95	186.98	181.17	171.82	159.39	144.49	127.81	110.09	92.09	74.53	58.08	43.35	30.88	
250.0	200.05	197.98	191.87	182.03	168.95	153.24	135.65	116.94	97.91	79.31	61.84	46.12	32.72	
255.0	209.22	207.06	200.71	190.46	176.84	160.48	142.14	122.63	102.76	83.30	64.99	48.46	34.31	
260.0	216.37	214.15	207.61	197.05	183.01	166.15	147.23	127.09	106.56	86.44	67.47	50.32	35.59	
265.0	221.48	219.21	212.53	201.75	187.42	170.19	150.86	130.28	109.28	88.69	69.26	51.67	36.51	
270.0	224.50	222.21	215.44	204.54	190.03	172.59	153.02	132.17	110.90	90.03	70.33	52.47	37.07	
275.0	225.43	223.12	216.33	205.39	190.83	173.32	153.68	132.75	111.39	90.44	70.65	52.72	37.24	
280.0	224.25	221.96	215.20	204.31	189.81	172.39	152.84	132.01	110.76	89.92	70.24	52.40	37.02	
285.0	220.98	218.71	212.04	201.29	186.98	169.79	150.51	129.96	109.01	88.47	69.09	51.54	36.42	
290.0	215.62	213.41	206.88	196.36	182.36	165.55	146.69	126.62	106.16	86.11	67.21	50.13	35.45	
295.0	208.22	206.08	199.75	189.55	175.98	159.70	141.44	122.01	102.23	82.87	64.64	48.20	34.13	
300.0	198.82	196.76	190.69	180.90	167.89	152.27	134.78	116.18	97.27	78.78	61.42	45.81	32.51	
305.0	187.49	185.53	179.77	170.48	158.14	143.34	126.78	109.19	91.33	73.91	57.59	42.99	30.64	
310.0	174.31	172.48	167.08	158.38	146.84	133.00	117.53	101.13	84.50	68.33	53.25	39.83	28.60	
315.0	159.42	157.73	152.75	144.74	134.10	121.36	107.15	92.10	76.90	62.16	48.50	36.45	26.51	
320.0	143.01	141.47	136.96	129.71	120.10	108.61	95.80	82.29	68.68	55.57	43.51	33.01	24.52	
325.0	125.32	123.96	119.98	113.57	105.10	94.98	83.75	71.94	60.12	48.82	38.55	29.77	22.86	
330.0	106.76	105.60	102.19	96.72	89.49	80.90	71.39	61.46	51.61	42.31	34.01	27.10	21.79	
335.0	88.03	87.08	84.30	79.85	73.98	67.04	59.43	51.56	43.86	36.73	30.53	25.47	21.60	
340.0	70.44	69.72	67.62	64.27	59.88	54.74	49.17	43.49	38.05	33.12	28.87	25.37	22.46	
345.0	56.71	56.24	54.85	52.64	49.78	46.45	42.89	39.29	35.83	32.63	29.71	27.01	24.40	
350.0	51.61	51.33	50.51	49.21	47.50	45.48	43.22	40.82	38.32	35.75	33.08	30.28		
355.0	58.41	58.18	57.48	56.33	54.78	52.83	50.54	47.94	45.05	41.89	38.47	34.80		

# STANDARD PATTERN





# TANDARD PATT RN

ation: BUNN

550

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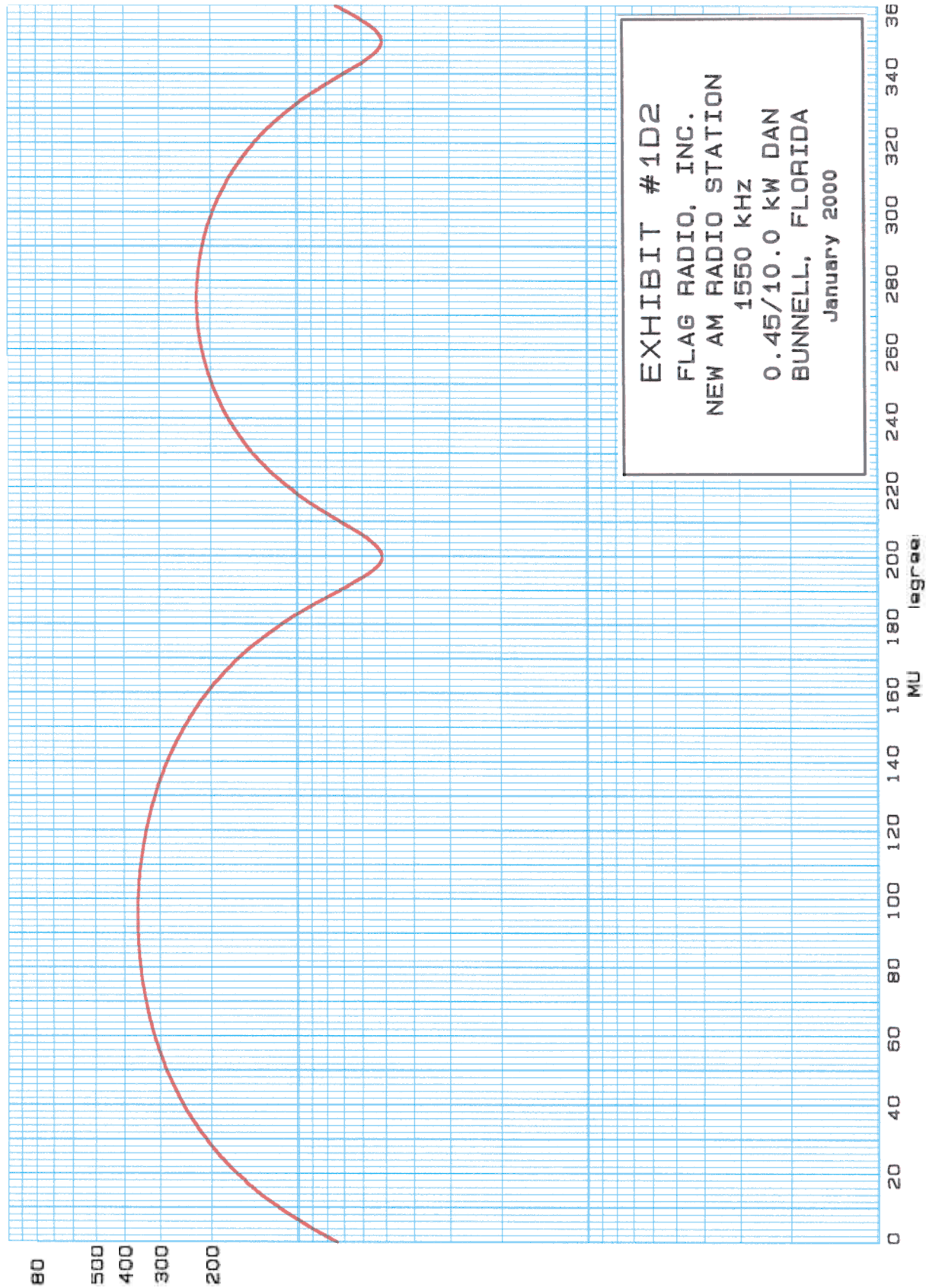


EXHIBIT #1D2  
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 0.45/10.0 KW DAN  
 BUNNELL, FLORIDA  
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