N. Lat. = 42-14-15.0 W. Lng. = 97-16-42.0
HAAT and Distance to Contour, KXNE-TV
FCC OET,TV 3.2 - 16.1, 130 pts - FCC 30 Meter

Vertical Elevation Field and Depression Angle Distances to Contour

Azi.	AV EL	HAAT	ERP kW	dBk	Field	DAng	VFld	D-kW	%Max	D-dBk	39.25-F9
000	518.1	323.3	170.5725	22.32	0.570	0.498	0.852	123.9524	85.2	20.93	85.20
010	513.6	327.8	78.6287	18.96	0.387	0.501	0.861	58.2345	86.1	17.65	80.26
020	509.3	332.1	40.2827	16.05	0.277	0.505	0.862	29.9257	86.2	14.76	76.31
030	507.4	334.0	34.4064	15.37	0.256	0.506	0.863	25.5956	86.3	14.08	75.49
040	500.6	340.8	55.4531	17.44	0.325	0.511	0.865	41.4485	86.5	16.18	79.30
050	497.2	344.2	120.4565	20.81	0.479	0.514	0.866	90.2443	86.6	19.55	85.05
060	490.4	351.0	244.1901	23.88	0.682	0.519	0.868	183.8014	86.8	22.64	91.15
070	493.9	347.5	392.8181	25.94	0.865	0.516	0.867	294.9702	86.7	24.70	94.68
080	488.8	352.6	498.0549	26.97	0.974	0.520	0.868	375.2836	86.8	25.74	97.14
090	484.2	357.2	517.6757	27.14	0.993	0.524	0.869	391.3086	86.9	25.93	97.88
100	494.7	346.7	447.2627	26.51	0.923	0.516	0.866	335.6618	86.6	25.26	95.68
110	497.5	343.9	311.2725	24.93	0.770	0.514	0.865	233.1520	86.5	23.68	92.40
120	498.9	342.5	171.1715	22.33	0.571	0.513	0.865	128.0867	86.5	21.08	87.50
130	502.5	338.9	79.8525	19.02	0.390	0.510	0.864	59.6050	86.4	17.75	81.57
140	500.0	341.4	40.8665	16.11	0.279	0.512	0.865	30.5573	86.5	14.85	77.33
150	505.9	335.5	33.8709	15.30	0.254	0.507	0.863	25.2233	86.3	14.02	75.54
160	510.8	330.6	54.0965	17.33	0.321	0.504	0.861	40.1450	86.1	16.04	78.07
170	529.7	311.7	119.4527	20.77	0.477	0.489	0.818	79.8343	81.8	19.02	80.70
180	541.4	300.0	245.6244	23.90	0.684	0.480	0.782	150.1255	78.2	21.76	83.94
190	536.6	304.8	396.4595	25.98	0.869	0.484	0.796	251.4302	79.6	24.00	88.69
200	541.1	300.3	501.1277	27.00	0.977	0.480	0.783	306.9627	78.3	24.87	89.86
210	525.0	316.4	520.8084	27.17	0.996	0.493	0.832	360.2903	83.2	25.57	93.18
220	526.1	315.3	447.2627	26.51	0.923	0.492	0.828	306.9059	82.8	24.87	91.65
230	531.9	309.5	305.6387	24.85	0.763	0.487	0.811	200.8902	81.1	23.03	87.39
240	529.7	311.7	163.4661	22.13	0.558	0.489	0.818	109.2793	81.8	20.39	82.94
250	524.4	317.0	73.8281	18.68	0.375	0.493	0.834	51.3154	83.4	17.10	78.31
260	530.6	310.8	37.4267	15.73	0.267	0.488	0.815	24.8404	81.5	13.95	73.28
270	524.5	316.9	31.0007	14.91	0.243	0.493	0.833	21.5308	83.3	13.33	72.95
280	527.6	313.8	48.5184	16.86	0.304	0.491	0.824	32.9244	82.4	15.18	75.20
290	536.4	305.0	107.7347	20.32	0.453	0.484	0.797	68.4273	79.7	18.35	78.95
300	540.5	300.9	227.9975	23.58	0.659	0.481	0.784	140.3115	78.4	21.47	83.53
310	536.8	304.6	378.4205	25.78	0.849	0.483	0.796	239.7621	79.6	23.80	88.28
320	547.4	294.0	488.8931	26.89	0.965	0.475	0.763	284.6614	76.3	24.54	88.38
330	538.9	302.5	514.5525	27.11	0.990	0.482	0.789	320.5842	78.9	25.06	90.51
340	528.1	313.3	447.2627	26.51	0.923	0.490	0.822	302.5361	82.2	24.81	91.30
350	521.3	320.1	312.0815	24.94	0.771	0.496	0.843	221.7616	84.3	23.46	89.46

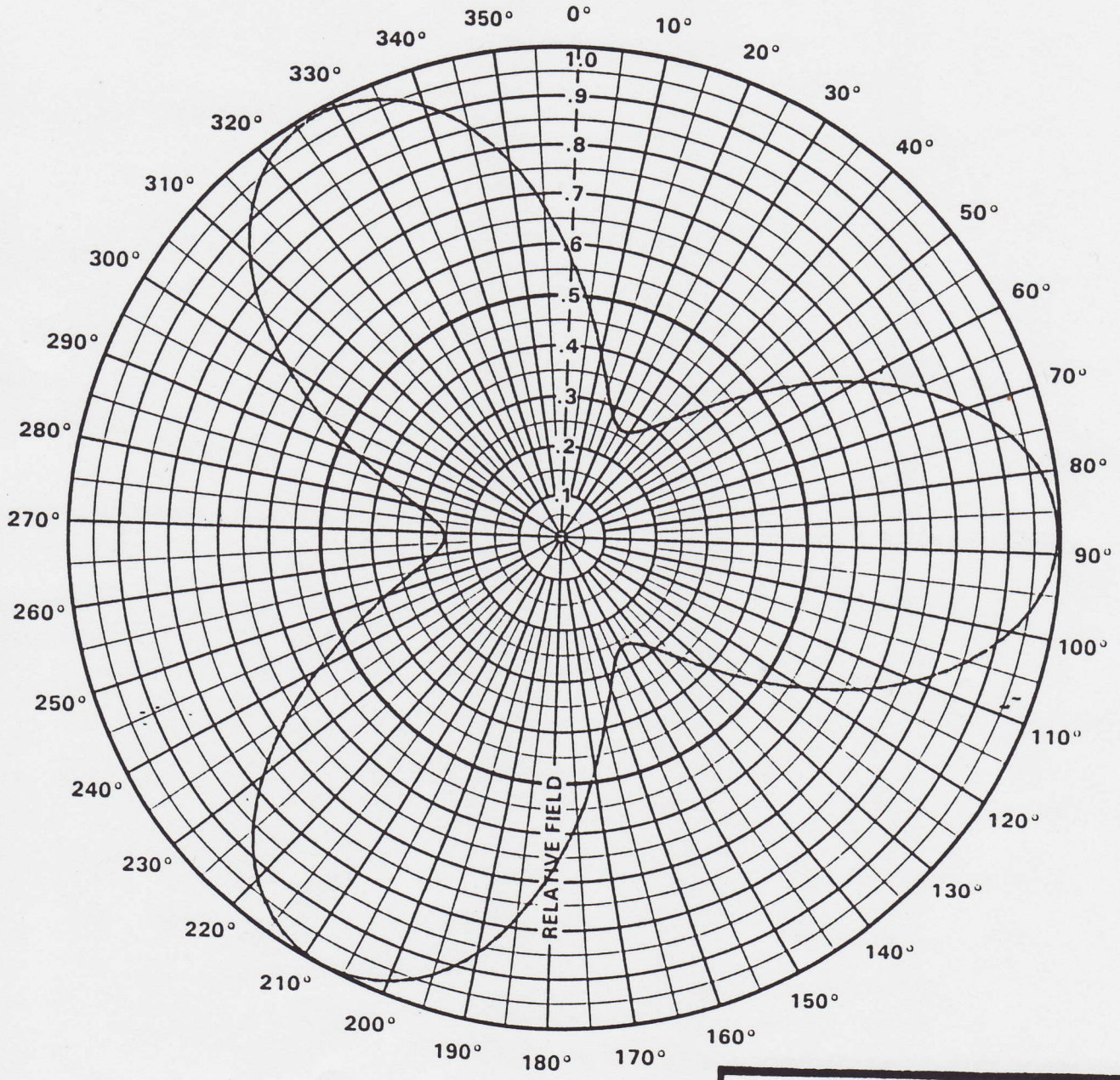
Ave El= 517.55 M HAAT= 323.85 M AMSL= 841.4 M

KXNE-TV

CHANNEL 19
Norfolk, NE

ANDREW
AZIMUTH PATTERN

Type:	CH19AZ-H	
	Numeric	dB
Directivity:	2.18	3.40
Peak(s) At:	87°, 207°, 327°	
Polarization:	Horizontal	
Channel:	19, KXNE-TV	
Location:	Norfolk, NE	



ANDREW CORPORATION
10500 W. 153rd Street
Orland Park, Illinois U.S.A. 60462

EXHIBIT 3A

FCC Form 340
Section V-C, Par. 10C

Azimuth Pattern Data
for
KXNE, CH 19, Norfolk, NE

Angle	Amp	Angle	Amp	Angle	Amp	Angle	Amp
0.000	0.570	92.000	0.987	182.000	0.725	272.000	0.248
2.000	0.530	94.000	0.976	184.000	0.765	274.000	0.257
4.000	0.491	96.000	0.962	186.000	0.802	276.000	0.269
6.000	0.454	98.000	0.944	188.000	0.837	278.000	0.285
8.000	0.419	100.000	0.923	190.000	0.869	280.000	0.304
10.000	0.387	102.000	0.899	192.000	0.897	282.000	0.328
12.000	0.359	104.000	0.871	194.000	0.923	284.000	0.354
14.000	0.333	106.000	0.840	196.000	0.945	286.000	0.384
16.000	0.311	108.000	0.806	198.000	0.963	288.000	0.417
18.000	0.292	110.000	0.770	200.000	0.977	290.000	0.453
20.000	0.277	112.000	0.732	202.000	0.988	292.000	0.492
22.000	0.266	114.000	0.693	204.000	0.996	294.000	0.532
24.000	0.258	116.000	0.652	206.000	1.000	296.000	0.574
26.000	0.253	118.000	0.611	208.000	1.000	298.000	0.616
28.000	0.253	120.000	0.571	210.000	0.996	300.000	0.659
30.000	0.256	122.000	0.531	212.000	0.989	302.000	0.700
32.000	0.262	124.000	0.493	214.000	0.978	304.000	0.740
34.000	0.272	126.000	0.456	216.000	0.963	306.000	0.779
36.000	0.286	128.000	0.422	218.000	0.945	308.000	0.815
38.000	0.304	130.000	0.390	220.000	0.923	310.000	0.849
40.000	0.325	132.000	0.362	222.000	0.897	312.000	0.879
42.000	0.349	134.000	0.336	224.000	0.868	314.000	0.906
44.000	0.377	136.000	0.314	226.000	0.836	316.000	0.929
46.000	0.409	138.000	0.295	228.000	0.801	318.000	0.949
48.000	0.443	140.000	0.279	230.000	0.763	320.000	0.965
50.000	0.479	142.000	0.267	232.000	0.724	322.000	0.978
52.000	0.518	144.000	0.259	234.000	0.683	324.000	0.986
54.000	0.558	146.000	0.253	236.000	0.641	326.000	0.991
56.000	0.599	148.000	0.252	238.000	0.599	328.000	0.993
58.000	0.641	150.000	0.254	240.000	0.558	330.000	0.990
60.000	0.682	152.000	0.259	242.000	0.517	332.000	0.984
62.000	0.722	154.000	0.269	244.000	0.478	334.000	0.974
64.000	0.761	156.000	0.283	246.000	0.441	336.000	0.961
66.000	0.798	158.000	0.300	248.000	0.407	338.000	0.944
68.000	0.833	160.000	0.321	250.000	0.375	340.000	0.923
70.000	0.865	162.000	0.345	252.000	0.347	342.000	0.899
72.000	0.893	164.000	0.374	254.000	0.322	344.000	0.871
74.000	0.919	166.000	0.406	256.000	0.300	346.000	0.841
76.000	0.941	168.000	0.440	258.000	0.282	348.000	0.807
78.000	0.959	170.000	0.477	260.000	0.267	350.000	0.771
80.000	0.974	172.000	0.517	262.000	0.256	352.000	0.733
82.000	0.985	174.000	0.558	264.000	0.248	354.000	0.693
84.000	0.993	176.000	0.600	266.000	0.243	356.000	0.652
86.000	0.997	178.000	0.642	268.000	0.241	358.000	0.611
88.000	0.997	180.000	0.684	270.000	0.243	360.000	0.570
90.000	0.993						

EXHIBIT 3C

FCC Form 340
Section V-C, Par. 10C

KXNE-TV

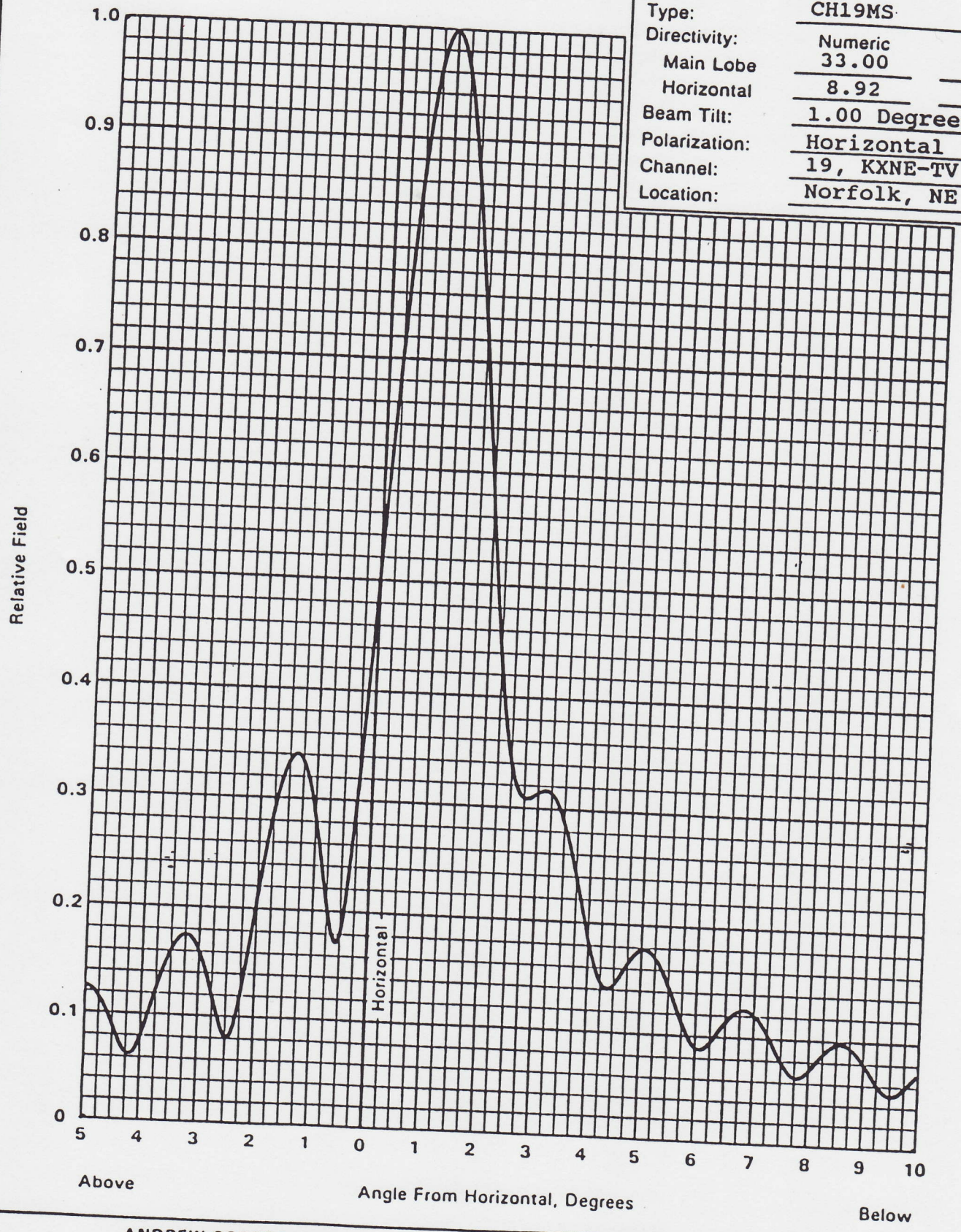
CHANNEL 19
Norfolk, NE

EXHIBIT 3D

FCC Form 340
Section V-C, Par. 10C

ANDREW
ELEVATION PATTERN

Type:	CH19MS	
Directivity:	Numeric	dBd
Main Lobe	33.00	15.19
Horizontal	8.92	9.51
Beam Tilt:	1.00 Degrees	
Polarization:	Horizontal	
Channel:	19, KXNE-TV	
Location:	Norfolk, NE	



ANDREW CORPORATION
10500 W. 153rd Street
Orland Park, Illinois U.S.A. 60462

T0292-10

VERTICAL PATTERN DATA
FOR
KXNE, CH 19, NORFOLK, NEBRASKA

ANDREW TRASAR Model ATW33H4-HTT2-19S

ANGLE	AMP.	ANGLE	AMP.	ANGLE	AMP.
5.00	0.125	-0.25	0.700	-5.25	0.170
4.75	0.115	-0.50	0.860	-5.50	0.140
4.50	0.085	-0.75	0.960	-5.75	0.105
4.25	0.065	-1.00	1.000	-6.00	0.090
4.00	0.080	-1.25	0.960	-6.25	0.095
3.75	0.120	-1.50	0.865	-6.50	0.115
3.50	0.160	-1.75	0.730	-6.75	0.125
3.25	0.175	-2.00	0.580	-7.00	0.120
3.00	0.160	-2.25	0.440	-7.25	0.100
2.75	0.120	-2.50	0.340	-7.50	0.080
2.50	0.080	-2.75	0.310	-7.75	0.065
2.25	0.120	-3.00	0.315	-8.00	0.070
2.00	0.200	-3.25	0.310	-8.25	0.090
1.75	0.285	-3.50	0.290	-8.50	0.100
1.50	0.335	-3.75	0.240	-8.75	0.095
1.25	0.335	-4.00	0.185	-9.00	0.080
1.00	0.280	-4.25	0.145	-9.25	0.060
0.75	0.205	-4.50	0.145	-9.50	0.050
0.50	0.180	-4.75	0.165	-9.75	0.060
0.25	0.320	-5.00	0.180	-10.00	0.070
0.00	0.505				

EXHIBIT 3E
FCC Form 340 Sect. V-C TV
Paragraph 10.