

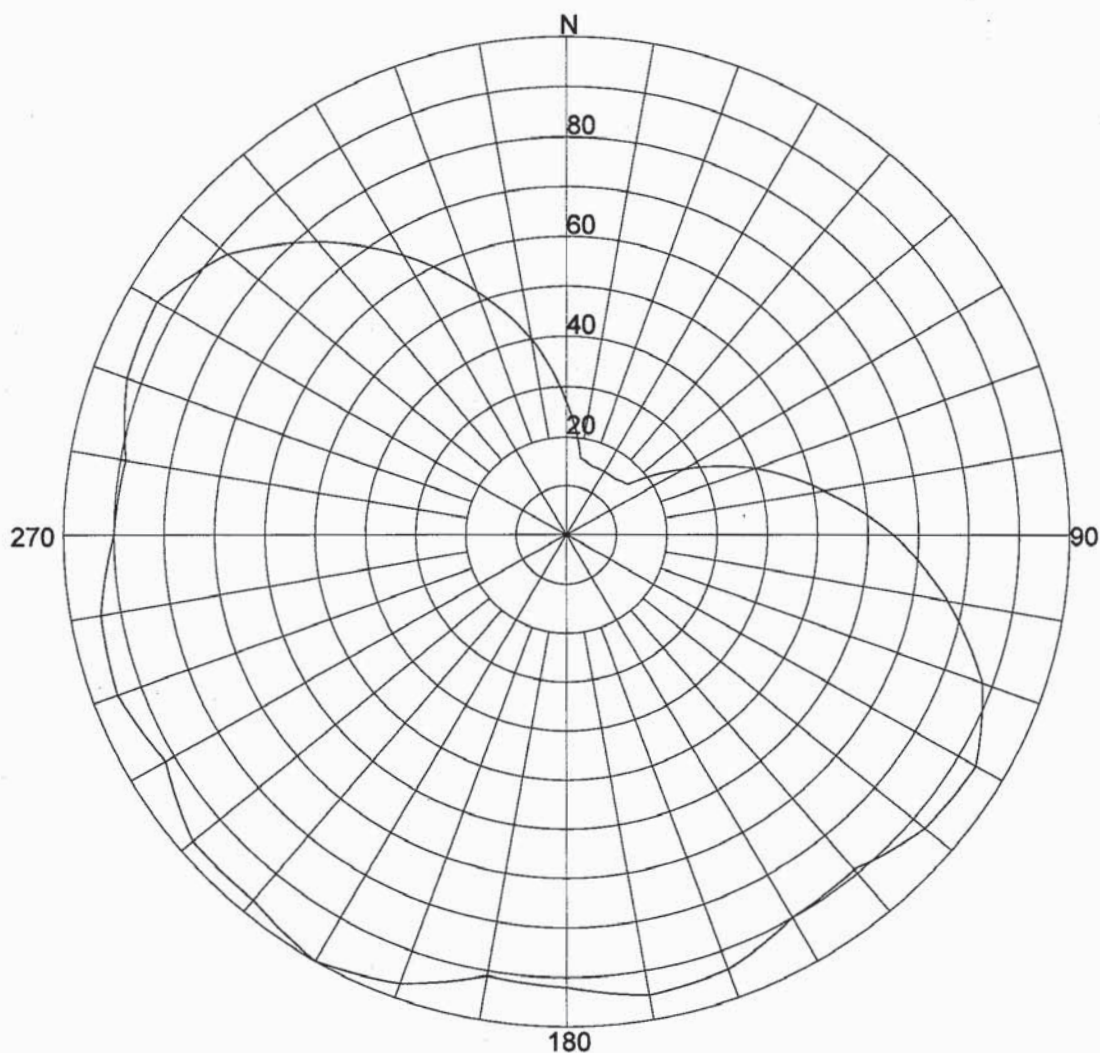
TECHNICAL SPECIFICATIONS  
TELEVISION STATION KXNW(TV)  
EUREKA SPRINGS, ARKANSAS  
CHANNEL 34 70 KW (MAX-DA) 224.4 M HAAT

This exhibit was prepared in support of an Application for Modification of License for KXNW(TV) to correct the operating constants for the station. KXNW is licensed for operation on Channel 34 with a maximum effective radiated power (ERP) of 70 kW (18.5 dBk) using a directional antenna. The directional antenna is an SWR model SWCS24WC/34. The antenna manufacturer has supplied the as-built antenna information, which is included with this exhibit. The operating constants for the KXNW facility are summarized in the table below:

Item	Value
Channel	34
Transmitter power output	2.26 dBk 1.68 kW
Transmission line loss	0.44 dB
Antenna input power	1.82 dBk
Maximum antenna power gain	16.68 dB
Maximum effective radiated power	18.5 dBk* 70 kW
Antenna Data / Manufacturer	SWR
Antenna Data / Model	SWCS24WC/34

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\* Rounded to the nearest 0.1 dB pursuant to FCC practice. See underlying authorization for KXNW under FCC File No. BPCDT-20080328ABW.



Azimuth Pattern

## Systems With Reliability

Scale: Linear

Unit: Relative Field

CLIENT: *NIA Broadcasting, KWFT*

Date: 12/8/2004

ANTENNA TYPE: SWCS24WC/34 FCC File No.: BMPCT-20040902ABL

FREQUENCY: 593

PATTERN POL.: Horizontal

CIRCULARITY(+/-dB):

AZ. DIRECTIVITY: 1.69099 / 2.28dB

PATTERN RMS: 0.769

## Relative Field Tabulation(Azimuth)

Azimuth Heading	Relative Field(dB)	Azimuth Heading	Relative Field(dB)
0	.2700 (-11.34 )	180	.9200 (-0.71 )
5	.2150 (-13.31 )	185	.9150 (-0.76 )
10	.1600 (-15.86 )	190	.9100 (-0.81 )
15	.1550 (-16.14 )	195	.9400 (-0.53 )
20	.1500 (-16.42 )	200	.9700 (-0.26 )
25	.1500 (-16.42 )	205	.9850 (-0.12 )
30	.1500 (-16.42 )	210	1.0000 ( 0.01 )
35	.1500 (-16.42 )	215	.9850 (-0.12 )
40	.1500 (-16.42 )	220	.9700 (-0.26 )
45	.1550 (-16.14 )	225	.9700 (-0.26 )
50	.1600 (-15.86 )	230	.9700 (-0.26 )
55	.2150 (-13.31 )	235	.9450 (-0.48 )
60	.2700 (-11.34 )	240	.9200 (-0.71 )
65	.3350 (-9.47 )	245	.9350 (-0.57 )
70	.4000 (-7.94 )	250	.9500 (-0.44 )
75	.4600 (-6.73 )	255	.9450 (-0.48 )
80	.5200 (-5.66 )	260	.9400 (-0.53 )
85	.5850 (-4.64 )	265	.9200 (-0.71 )
90	.6500 (-3.73 )	270	.9000 (-0.91 )
95	.7100 (-2.96 )	275	.8950 (-0.95 )
100	.7700 (-2.26 )	280	.8900 (-1 )
105	.8250 (-1.66 )	285	.9100 (-0.81 )
110	.8800 (-1.1 )	290	.9300 (-0.62 )
115	.9100 (-0.81 )	295	.9350 (-0.57 )
120	.9400 (-0.53 )	300	.9400 (-0.53 )
125	.9350 (-0.57 )	305	.9100 (-0.81 )
130	.9300 (-0.62 )	310	.8800 (-1.1 )
135	.9100 (-0.81 )	315	.8250 (-1.66 )
140	.8900 (-1 )	320	.7700 (-2.26 )
145	.8950 (-0.95 )	325	.7100 (-2.96 )
150	.9000 (-0.91 )	330	.6500 (-3.73 )
155	.9200 (-0.71 )	335	.5850 (-4.64 )
160	.9400 (-0.53 )	340	.5200 (-5.66 )
165	.9450 (-0.48 )	345	.4600 (-6.73 )
170	.9500 (-0.44 )	350	.4000 (-7.94 )
175	.9350 (-0.57 )	355	.3350 (-9.47 )

## Systems With Reliability

CLIENT: NIA Broadcasting, KWFT

Date: 12/8/2004

ANTENNA TYPE: SWCS24WC/34 FCC File No.: BMPCT-20040902ABL

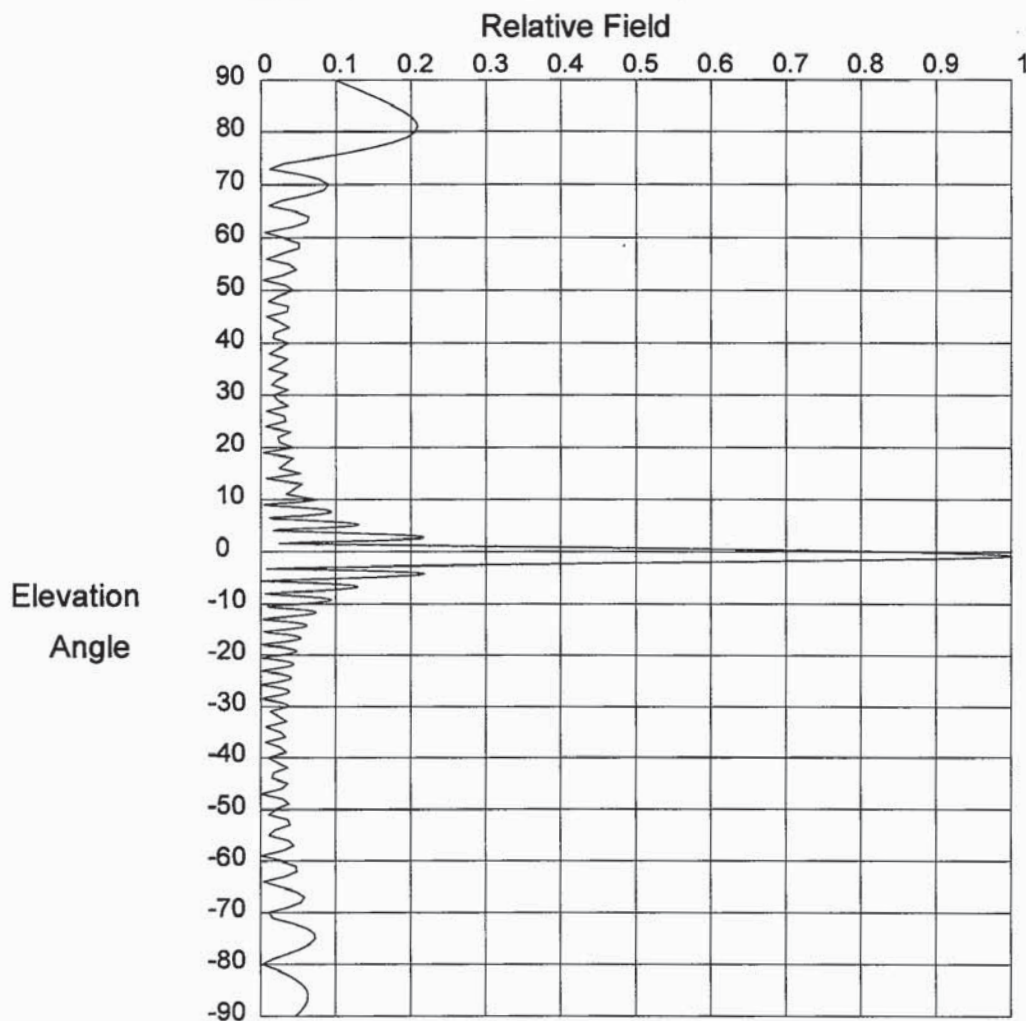
FREQUENCY: 593

PATTERN POL.: Horizontal

CIRCULARITY(+/-dB):

AZ. DIRECTIVITY: 1.69099 / 2.28dB

PATTERN RMS: 0.769



## Elevation Pattern

Scale: Linear

Units: Field, Relative

## Systems With Reliability

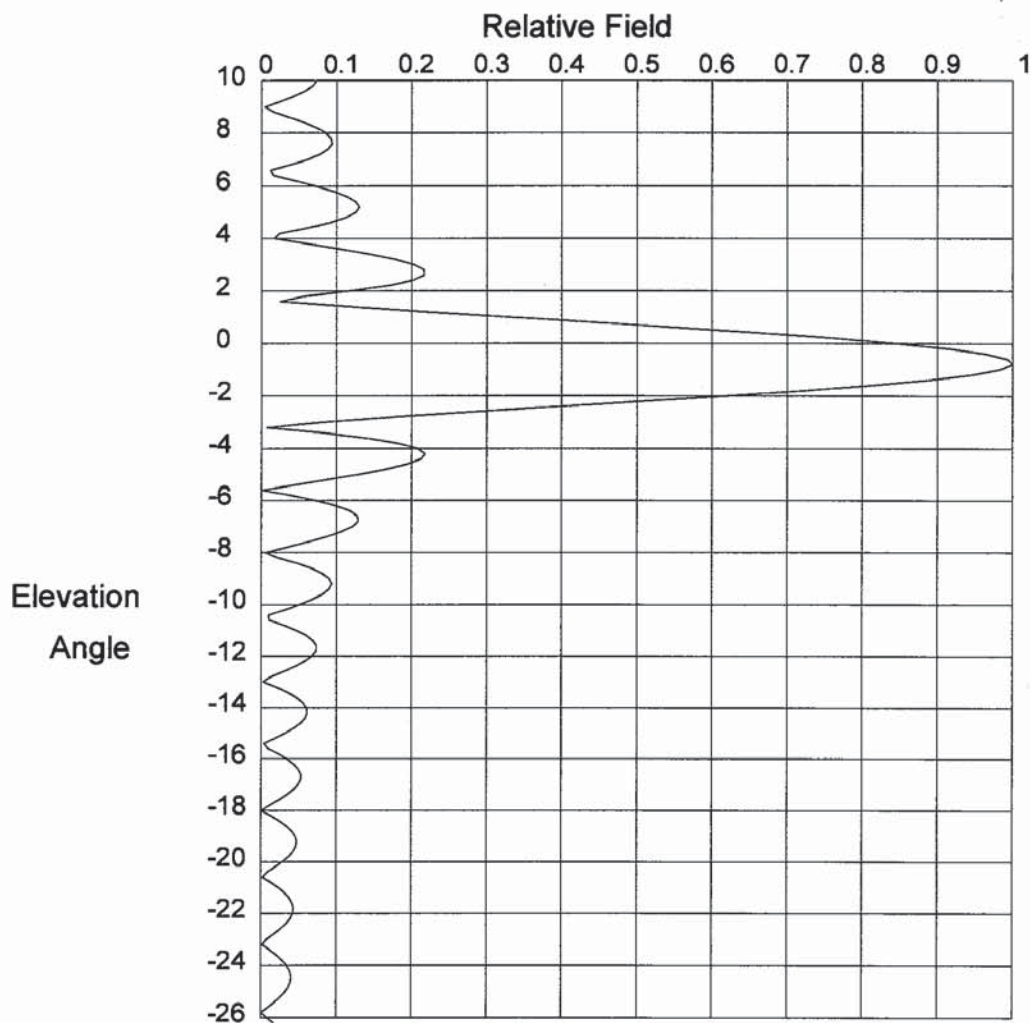
CLIENT: NIA Broadcasting, KWFT  
 ANTENNA TYPE: SWCS24WC/34  
 FREQUENCY: 593  
 PATTERN POL.: Horizontal  
 DIRECTIVITY(Peak): 27.568/14.404 dBd  
 DIRECTIVITY(Horiz): 19.735/12.952 dBd

Date: 11/23/2004

Beam Tilt (Deg.) : -.75

Null Fill(s)(%) : 0, 0, 0





Elevation Pattern

Scale: Linear

Units: Field, Relative

## Systems With Reliability

CLIENT: NIA Broadcasting, KWFT  
 ANTENNA TYPE: SWCS24WC/34  
 FREQUENCY: 593  
 PATTERN POL.: Horizontal  
 DIRECTIVITY(Peak): 27.568/14.404 dBd  
 DIRECTIVITY(Horiz): 19.735/12.952 dBd

Date: 11/23/2004

Beam Tilt (Deg.) : - .75

Null Fill(s)(%) : 0, 0, 0

## Relative Field Tabulation

Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)
3.2	.178 (-14.984)	-4.4	.213 (-13.445)	-12.0	.068 (-23.385)
3.0	.203 (-13.841)	-4.6	.195 (-14.221)	-12.2	.058 (-24.662)
2.8	.217 (-13.283)	-4.8	.166 (-15.608)	-12.4	.046 (-26.78)
2.6	.216 (-13.293)	-5.0	.129 (-17.77)	-12.6	.031 (-30.265)
2.4	.201 (-13.946)	-5.2	.088 (-21.132)	-12.8	.014 (-37.038)
2.2	.169 (-15.459)	-5.4	.044 (-27.085)	-13.0	.003 (-50.645)
2.0	.12 (-18.426)	-5.6	.001 (-56.948)	-13.2	.019 (-34.309)
1.8	.055 (-25.221)	-5.8	.038 (-28.375)	-13.4	.034 (-29.396)
1.6	.025 (-31.984)	-6.0	.072 (-22.821)	-13.6	.046 (-26.742)
1.4	.118 (-18.558)	-6.2	.099 (-20.059)	-13.8	.055 (-25.205)
1.2	.221 (-13.107)	-6.4	.118 (-18.552)	-14.0	.06 (-24.413)
1.0	.331 (-9.602)	-6.6	.128 (-17.846)	-14.2	.062 (-24.22)
.8	.444 (-7.05)	-6.8	.129 (-17.768)	-14.4	.059 (-24.581)
.6	.556 (-5.095)	-7.0	.122 (-18.266)	-14.6	.053 (-25.529)
.4	.663 (-3.567)	-7.2	.108 (-19.37)	-14.8	.044 (-27.194)
.2	.761 (-2.371)	-7.4	.087 (-21.218)	-15.0	.032 (-29.904)
.0	.846 (-1.452)	-7.6	.062 (-24.163)	-15.2	.019 (-34.621)
-.2	.915 (-0.774)	-7.8	.034 (-29.283)	-15.4	.004 (-47.226)
-.4	.965 (-0.314)	-8.0	.006 (-44.378)	-15.6	.01 (-40.169)
-.6	.993 (-0.058)	-8.2	.021 (-33.484)	-15.8	.023 (-32.751)
-.8	1.00 (0)	-8.4	.046 (-26.81)	-16.0	.035 (-29.229)
-1.0	.984 (-0.137)	-8.6	.066 (-23.608)	-16.2	.044 (-27.189)
-1.2	.947 (-0.474)	-8.8	.081 (-21.812)	-16.4	.05 (-26.024)
-1.4	.889 (-1.02)	-9.0	.09 (-20.873)	-16.6	.053 (-25.503)
-1.6	.814 (-1.792)	-9.2	.094 (-20.584)	-16.8	.053 (-25.537)
-1.8	.723 (-2.816)	-9.4	.09 (-20.871)	-17.0	.049 (-26.118)
-2.0	.621 (-4.137)	-9.6	.082 (-21.747)	-17.2	.043 (-27.312)
-2.2	.512 (-5.821)	-9.8	.068 (-23.319)	-17.4	.034 (-29.304)
-2.4	.399 (-7.985)	-10.0	.051 (-25.863)	-17.6	.024 (-32.566)
-2.6	.287 (-10.853)	-10.2	.031 (-30.161)	-17.8	.012 (-38.716)
-2.8	.179 (-14.934)	-10.4	.01 (-40.024)	-18.0	.001 (-61.756)
-3.0	.08 (-21.945)	-10.6	.011 (-39.233)	-18.2	.013 (-37.757)
-3.2	.008 (-41.959)	-10.8	.03 (-30.359)	-18.4	.024 (-32.369)
-3.4	.082 (-21.71)	-11.0	.047 (-26.535)	-18.6	.034 (-29.483)
-3.6	.141 (-17.03)	-11.2	.06 (-24.391)	-18.8	.041 (-27.77)
-3.8	.183 (-14.754)	-11.4	.069 (-23.195)	-19.0	.046 (-26.815)
-4.0	.208 (-13.618)	-11.6	.073 (-22.681)	-19.2	.048 (-26.45)
-4.2	.218 (-13.232)	-11.8	.073 (-22.749)	-19.4	.047 (-26.615)

## Systems With Reliability

Page 1 of 2

CLIENT: NIA Broadcasting, KWFT

Date: 11/23/2004

ANTENNA TYPE: SWCS24WC/34

FREQUENCY: 593

PATTERN POL.: Horizontal

DIRECTIVITY(Peak): 27.568/14.404 dBd

Beam Tilt (Deg.) : -75

DIRECTIVITY(Horiz): 19.735/12.952 dBd

Null Fill(s)(%) : 0, 0, 0



# Relative Field Tabulation

Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)
-19.6	.043 (-27.321)	-27.2	.038 (-28.351)	-54.0	.019 (-34.294)
-19.8	.037 (-28.653)	-27.4	.037 (-28.696)	-55.0	.012 (-38.624)
-20.0	.029 (-30.834)	-27.6	.033 (-29.542)	-56.0	.037 (-28.609)
-20.2	.019 (-34.438)	-27.8	.028 (-30.993)	-57.0	.044 (-27.098)
-20.4	.008 (-41.664)	-28.0	.022 (-33.293)	-58.0	.03 (-30.462)
-20.6	.003 (-51.131)	-28.2	.014 (-37.072)	-59.0	.002 (-55.493)
-20.8	.013 (-37.406)	-28.4	.006 (-44.874)	-60.0	.028 (-31.045)
-21.0	.023 (-32.675)	-28.6	.003 (-50.974)	-61.0	.047 (-26.566)
-21.2	.032 (-30.032)	-28.8	.011 (-39.056)	-62.0	.048 (-26.348)
-21.4	.038 (-28.442)	-29.0	.019 (-34.5)	-63.0	.032 (-29.939)
-21.6	.042 (-27.558)	-29.2	.026 (-31.868)	-64.0	.004 (-47.395)
-21.8	.043 (-27.236)	-29.4	.031 (-30.223)	-65.0	.025 (-31.92)
-22.0	.043 (-27.424)	-29.6	.035 (-29.233)	-66.0	.048 (-26.343)
-22.2	.039 (-28.138)	-29.8	.036 (-28.757)	-67.0	.058 (-24.688)
-22.4	.034 (-29.464)	-30.0	.037 (-28.735)	-68.0	.054 (-25.382)
-22.6	.026 (-31.62)	-31.0	.013 (-37.824)	-69.0	.037 (-28.714)
-22.8	.017 (-35.161)	-32.0	.024 (-32.24)	-70.0	.011 (-38.914)
-23.0	.008 (-42.167)	-33.0	.034 (-29.258)	-71.0	.017 (-35.573)
-23.2	.002 (-53.183)	-34.0	.008 (-42.311)	-72.0	.042 (-27.519)
-23.4	.012 (-38.467)	-35.0	.027 (-31.483)	-73.0	.061 (-24.284)
-23.6	.021 (-33.605)	-36.0	.033 (-29.554)	-74.0	.071 (-22.919)
-23.8	.029 (-30.886)	-37.0	.007 (-43.649)	-75.0	.073 (-22.76)
-24.0	.035 (-29.231)	-38.0	.026 (-31.588)	-76.0	.066 (-23.615)
-24.2	.039 (-28.28)	-39.0	.034 (-29.401)	-77.0	.053 (-25.552)
-24.4	.04 (-27.88)	-40.0	.01 (-40.172)	-78.0	.035 (-29.01)
-24.6	.04 (-27.974)	-41.0	.023 (-32.712)	-79.0	.016 (-35.825)
-24.8	.037 (-28.567)	-42.0	.036 (-28.97)	-80.0	.003 (-50.215)
-25.0	.033 (-29.725)	-43.0	.017 (-35.179)	-81.0	.021 (-33.637)
-25.2	.026 (-31.619)	-44.0	.015 (-36.235)	-82.0	.036 (-28.892)
-25.4	.018 (-34.664)	-45.0	.036 (-28.89)	-83.0	.048 (-26.406)
-25.6	.01 (-40.182)	-46.0	.028 (-30.968)	-84.0	.056 (-24.994)
-25.8	.001 (-63.633)	-47.0	.001 (-59.895)	-85.0	.061 (-24.253)
-26.0	.008 (-41.492)	-48.0	.03 (-30.49)	-86.0	.063 (-23.997)
-26.2	.017 (-35.411)	-49.0	.038 (-28.442)	-87.0	.062 (-24.134)
-26.4	.025 (-32.215)	-50.0	.02 (-34.024)	-88.0	.059 (-24.62)
-26.6	.031 (-30.266)	-51.0	.011 (-38.8)	-89.0	.053 (-25.443)
-26.8	.035 (-29.085)	-52.0	.036 (-28.854)	-90.0	.047 (-26.617)
-27.0	.038 (-28.474)	-53.0	.039 (-28.157)	90.0	.00 (-50)

## Systems With Reliability

Page 2 of 2

CLIENT: NIA Broadcasting, KWFT

Date: 11/23/2004

ANTENNA TYPE: SWCS24WC/34

FREQUENCY: 593

PATTERN POL.: Horizontal

DIRECTIVITY(Peak): 27.568/14.404 dBd

Beam Tilt (Deg.): -75

DIRECTIVITY(Horiz): 19.735/12.952 dBd

Null Fill(s)(%): 0, 0, 0