

Non-Interference Compliance

Regarding Facility id 151910

Channel 249

Description of Exhibit 12 Contents

This exhibit demonstrates that the proposed facility complies with contour overlap and interference protection provisions in all of the applicable rule sections and that this application for a construction permit is in full compliance with 47 C.F.R. § 74.1204.

Let it be noted that should any actual real world interference occur, the applicant acknowledges that it will promptly suspend operation of this translator in accordance with 47 C.F.R. § 74.1203.

Page 2 of this exhibit is an explanation of the method used to demonstrate compliance with contour overlap and interference provisions based on 47 C.F.R. § 74.1204(d), which states:

[A]n application otherwise precluded by this section will be accepted if it can be demonstrated that no actual interference will occur due to intervening terrain, lack of population or such other factors as may be applicable.

Page 3 contains a tabulation of the vertical radiation pattern of the proposed antenna and the minimum ground clearance of the interfering contour based on this pattern.

Pages 4 through 5 include a plot and a tabulation of the vertical radiation pattern for the proposed antenna provided by the antenna manufacturer.

Page 6 of this exhibit contains the tabulated data from the interference analysis, which shows all stations whose protected contours come within 50 km of the 34 dBμ F(50,10) contour of the proposed translator. These tabulated values were calculated using data from the FCC's CDBS files and 30 arc second terrain data. The column labeled "Adj" shows the number of channels difference between the entry and the proposed translator. The column labeled "Dist" shows the distance in km. The column labeled "Overlap" shows the area of contour overlap in square kilometers.

Page 7 of this exhibit is a portion of a USGS 1:24,000 scale 7.5 minute quadrangle at full scale with the calculated area of interference overlaid. The sheet includes the quadrangle name and measurement scale at the bottom-left corner (note: "Mt" refers to meters). The area of interference was calculated using the free space equation and 120 radials.

Page 8 of this exhibit is a high resolution aerial photo of the vicinity surrounding the proposed translator's tower site provided by the U.S. Geological Survey's National Aerial Photography Program. It has been included to provide clarification of the nature of the buildings in the vicinity.

Note: The USGS Quadrangle and the aerial photo indicate that a State Highway and an unoccupied shed (15ft in height) lie within the zone of predicted interference. This application provides 5.2m (17.1ft) of ground clearance which is adequate clearance for the building and highway so a lack of population has been demonstrated within the area of interference and this application is therefore in full compliance with 47 C.F.R. § 74.1204.

Compliance with 47 C.F.R. § 74.1204(d)

All authorized second and third adjacent stations with which the proposed translator has contour overlap are tabulated below. Column four show the station's signal level at the proposed translator's tower site, and column five gives the minimum value within the entire standard interfering contour of the proposed translator (100 dBμ for most classes, 94 for class B, 97 for class B1). The minimum second or third adjacent F(50,50) contour within the proposed translator's standard interfering contour was used to calculate the proposed translator's actual "worst-case" interfering contour.

Application_id	File Number	Callsign	Contour at Tower	Min. Contour
249415	BLH19970703KD	WSRV	62.2	62.1
270482	BLH19980629KB	WHZT	77.7	77.6
273169	BLH19980825KB	WSRV	66.2	66.2
998624	BPH20040413ABO	WHZT	61.3	61.3
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				61.3

FCC 02-244 at Section II.A.5 states that "when demonstrating that 'no actual interference will occur due to . . . other factors,' pursuant to Section 74.1204(d), an applicant may use the undesired-to-desired signal ratio method." The undesired-to-desired ratio for second and third adjacent stations required by § 74.1204(a) is 40 dB. Since the minimum protected contour strength within the proposed translator's standard interference contour is **61.3 dBμ**, this makes the proposed translator's worst-case interfering contour **101.3 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **159.8 m** from the transmit antenna.

The maximum horizontal plane of the interfering contour was calculated for 120 radials and plotted on the pertinent portion of a USGS quadrangle (page 8 of this exhibit). However, the field strength of the proposed translator's antenna varies with angle of depression from horizontal. The antenna relative fields are tabulated on the following page at 5 degree increments, starting at 5 degrees below horizontal. Antenna relative field strength data was provided and certified by the manufacturer of the proposed antenna. Using a free-space calculation that neglects any loss due to reflection, the vertical ground clearance of the proposed translator's interference contour has been tabulated. As shown on the following page, the area of interference clears the tower ground level (TGL) by **5.2 m** at the lowest point. The applicant has taken into account USGS quadrangles and relevant aerial photography in stating that no structures, except possibly tower support structures, puncture the area of interference. Hence, in accordance with 47 C.F.R. § 74.1204(d) and the clarification provided by the FCC in the decision *Re: Living Way Ministries* (FCC 02-244), a lack of population has been demonstrated within the area of interference and this application is therefore in full compliance with 47 C.F.R. § 74.1204.

Note: The USGS Quadrangle and the aerial photo indicate that a State Highway and an unoccupied shed (15ft in height) lie within the zone of predicted interference. This application provides 5.2m (17.1ft) of ground clearance which is adequate clearance for the building and highway so a lack of population has been demonstrated within the area of interference and this application is therefore in full compliance with 47 C.F.R. § 74.1204.

Antenna Manufacturer:	NIC
Antenna Model:	BKG77-2(.5)
CORAGL:	50 m
Maximum ERP:	0.007 kW
Interfering Contour:	101.3 dBμ
Max Int. Contour Distance:	159.8 m
Min Ground Clearance:	5.2 m

Depression Angle Below Horizontal	Antenna Relative Field	ERP (watts)	Distance to Interfering Contour from Antenna (m)	Horizontal Distance of Interfering Contour from Tower (m)	Vertical Clearance of Interfering Contour above TGL (m)
5	.973	6.6	155.5	154.9	36.4
10	.933	6.1	149.1	146.8	24.1
15	.855	5.1	136.6	132.0	14.6
20	.777	4.2	124.2	116.7	7.5
25	.664	3.1	106.1	96.2	5.2
30	.560	2.2	89.5	77.5	5.3
35	.456	1.5	72.9	59.7	8.2
40	.365	0.9	58.3	44.7	12.5
45	.292	0.6	46.7	33.0	17.0
50	.227	0.4	36.3	23.3	22.2
55	.172	0.2	27.5	15.8	27.5
60	.126	0.1	20.1	10.1	32.6
65	.096	0.1	15.3	6.5	36.1
70	.072	0.0	11.5	3.9	39.2
75	.056	0.0	8.9	2.3	41.4
80	.046	0.0	7.4	1.3	42.8
85	.039	0.0	6.2	0.5	43.8
90	.035	0.0	5.6	0.0	44.4
Minimum Clearance above TGL:					5.2 m

TX station: TV Mondiale

Site name: Monte Alto

Frequency: 100.00 MHz

Vertical diagram at an azimuth of 0° degrees

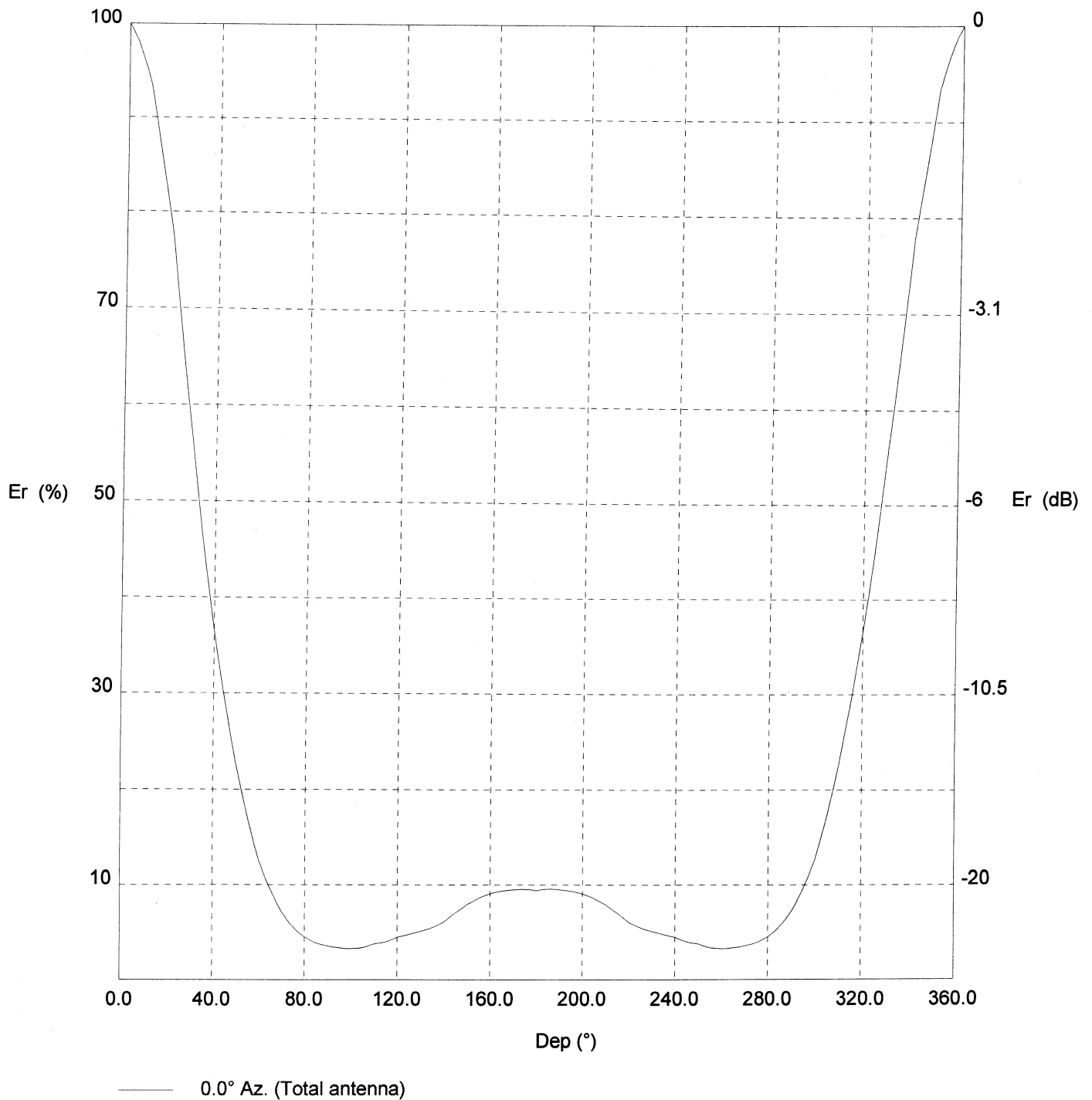
Dep (°)	Er (%)	ERP (KW)	Dep (°)	Er (%)	ERP (KW)	Dep (°)	Er (%)	ERP (KW)
0.0	100.0	8.73	120.0	4.5	0.02	240.0	4.5	0.02
2.0	99.1	8.57	122.0	4.6	0.02	242.0	4.3	0.02
4.0	98.0	8.38	124.0	4.7	0.02	244.0	4.1	0.01
6.0	96.6	8.15	126.0	4.9	0.02	246.0	3.9	0.01
8.0	95.1	7.89	128.0	5.0	0.02	248.0	3.8	0.01
10.0	93.3	7.60	130.0	5.1	0.02	250.0	3.7	0.01
12.0	90.3	7.11	132.0	5.3	0.02	252.0	3.6	0.01
14.0	87.1	6.62	134.0	5.4	0.03	254.0	3.4	0.01
16.0	83.9	6.15	136.0	5.6	0.03	256.0	3.3	0.01
18.0	80.9	5.71	138.0	5.8	0.03	258.0	3.3	0.01
20.0	77.7	5.28	140.0	6.1	0.03	260.0	3.3	0.01
22.0	73.1	4.67	142.0	6.5	0.04	262.0	3.3	0.01
24.0	68.6	4.10	144.0	6.8	0.04	264.0	3.3	0.01
26.0	64.2	3.60	146.0	7.2	0.05	266.0	3.4	0.01
28.0	60.0	3.15	148.0	7.6	0.05	268.0	3.4	0.01
30.0	56.0	2.73	150.0	7.9	0.05	270.0	3.5	0.01
32.0	51.7	2.33	152.0	8.2	0.06	272.0	3.6	0.01
34.0	47.5	1.97	154.0	8.4	0.06	274.0	3.8	0.01
36.0	43.6	1.66	156.0	8.7	0.07	276.0	4.0	0.01
38.0	40.0	1.40	158.0	8.9	0.07	278.0	4.2	0.02
40.0	36.5	1.17	160.0	9.1	0.07	280.0	4.6	0.02
42.0	33.5	0.98	162.0	9.2	0.07	282.0	4.9	0.02
44.0	30.5	0.81	164.0	9.3	0.08	284.0	5.3	0.02
46.0	27.8	0.67	166.0	9.4	0.08	286.0	5.9	0.03
48.0	25.1	0.55	168.0	9.5	0.08	288.0	6.5	0.04
50.0	22.7	0.45	170.0	9.5	0.08	290.0	7.2	0.05
52.0	20.3	0.36	172.0	9.5	0.08	292.0	8.1	0.06
54.0	18.2	0.29	174.0	9.5	0.08	294.0	9.1	0.07
56.0	16.2	0.23	176.0	9.5	0.08	296.0	10.1	0.09
58.0	14.3	0.18	178.0	9.5	0.08	298.0	11.3	0.11
60.0	12.6	0.14	180.0	9.4	0.08	300.0	12.6	0.14
62.0	11.3	0.11	182.0	9.5	0.08	302.0	14.3	0.18
64.0	10.1	0.09	184.0	9.5	0.08	304.0	16.2	0.23
66.0	9.1	0.07	186.0	9.6	0.08	306.0	18.2	0.29
68.0	8.1	0.06	188.0	9.5	0.08	308.0	20.3	0.36
70.0	7.2	0.05	190.0	9.5	0.08	310.0	22.7	0.45
72.0	6.5	0.04	192.0	9.5	0.08	312.0	25.1	0.55
74.0	5.9	0.03	194.0	9.4	0.08	314.0	27.8	0.67
76.0	5.3	0.02	196.0	9.3	0.08	316.0	30.5	0.81
78.0	4.9	0.02	198.0	9.2	0.07	318.0	33.5	0.98
80.0	4.6	0.02	200.0	9.1	0.07	320.0	36.5	1.17
82.0	4.2	0.02	202.0	8.9	0.07	322.0	40.0	1.40
84.0	4.0	0.01	204.0	8.7	0.07	324.0	43.6	1.66
86.0	3.8	0.01	206.0	8.4	0.06	326.0	47.5	1.97
88.0	3.6	0.01	208.0	8.2	0.06	328.0	51.7	2.33
90.0	3.5	0.01	210.0	7.9	0.05	330.0	56.0	2.73
92.0	3.4	0.01	212.0	7.6	0.05	332.0	60.0	3.15
94.0	3.4	0.01	214.0	7.2	0.05	334.0	64.2	3.60
96.0	3.3	0.01	216.0	6.8	0.04	336.0	68.6	4.10
98.0	3.3	0.01	218.0	6.5	0.04	338.0	73.1	4.67
100.0	3.3	0.01	220.0	6.1	0.03	340.0	77.7	5.28
102.0	3.3	0.01	222.0	5.8	0.03	342.0	80.9	5.71
104.0	3.3	0.01	224.0	5.6	0.03	344.0	83.9	6.15
106.0	3.4	0.01	226.0	5.4	0.03	346.0	87.1	6.62
108.0	3.6	0.01	228.0	5.3	0.02	348.0	90.3	7.11
110.0	3.7	0.01	230.0	5.1	0.02	350.0	93.3	7.60
112.0	3.8	0.01	232.0	5.0	0.02	352.0	95.1	7.89
114.0	3.9	0.01	234.0	4.9	0.02	354.0	96.6	8.15
116.0	4.1	0.01	236.0	4.7	0.02	356.0	98.0	8.38
118.0	4.3	0.02	238.0	4.6	0.02	358.0	99.1	8.57

TX station: TV Mondiale

Site name: Monte Alto

Frequency: 100.00 MHz

Vertical diagram



Adjacent Channel Study **For Station W249CC, Facility_id: 151910**

Co-channel through third adjacent:

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Overlap
270482	5971	BLH	19980629KB	WHZT	ALPEAK BROADCASTING CORPORATION	C0	SENECA	SC	LIC	100	554	251	2	35.6	0.0358
998624	5971	BPH	20040413ABO	WHZT	CXR HOLDINGS, L.L.C.	C1	SENECA	SC	CP	93	572	251	2	70.2	0.0358
273169	59970	BLH	19980825KB	WSRV	CHANCELLOR MEDIA/SHAMROCK RADIO, LIC	C	GAINESVILLE	GA	LIC	98	797	246	3	70.3	0.0358
249415	59970	BLH	19970703KD	WSRV	CHANCELLOR MEDIA/SHAMROCK RADIO, LIC	C	GAINESVILLE	GA	LIC	98	654	246	3	70.3	0.0358
640099	147431	BNPFT	20030317GIX	NEW	RADIO ASSIST MINISTRY, INC.	D	HARTWELL	GA	APP	0.013	341.9	248	1	41.7	0
644925	151833	BNPFT	20030317GIK	NEW	RADIO ASSIST MINISTRY, INC.	D	GAINESVILLE	GA	APP	0.01	523.1	249	0	50.5	0
1177006	147419	BLFT	20070315ABZ	W248AG	RADIO ASSIST MINISTRY, INC.	D	COMMERCE	GA	LIC	0.038	300	248	1	52.8	0
628643	138389	BNPFT	20030310ADB	NEW	AUGUSTA RADIO FELLOWSHIP INSTITUTE, INC	D	GAINESVILLE	GA	APP	0.019	430	248	1	56.7	0
640092	147424	BNPFT	20030317GIS	NEW	RADIO ASSIST MINISTRY, INC.	D	GAINESVILLE	GA	APP	0.013	436.4	248	1	58.9	0
1218528	156241	BLFT	20071107ADA	W249CB	TOWER ABOVE MEDIA LLC	D	SIX MILE	SC	LIC	0.038	296	249	0	61.8	0
634608	142647	BNPFT	20030312ANI	NEW	CHARISMA RADIO CORP.	D	LAKE TOXAWAY	NC	APP	0.009	1465	246	3	67.7	0
208803	22988	BLFT	19950505TH	W250AC	GEORGIA PUBLIC TELECOMMUNICATIONS COMM	D	ATHENS	GA	LIC	0.027	277	250	1	73.8	0
1168492	59970	BPH	20070118ACV	WSRV	COX RADIO, INC.	C0	GAINESVILLE	GA	APP	100	634	246	3	81.5	0
707235	59970	BXPH	20040107ABI	WSRV	COX RADIO, INC.	C	GAINESVILLE	GA	CP	50	506	246	3	84.7	0
253275	88564	BPFT	19970915TG	970915TG	RADIO TRAINING NETWORK	D	BREVARD	NC	APP	0.01	1177	248	1	89	0
189674	29263	BLFT	19930907TD	W247AB	ISOTHERMAL COMMUNITY COLLEGE	D	GREENVILLE	SC	LIC	0.019	367	247	2	92.2	0
632238	71881	BMJPF	20030314CHS	W237AR	WESTERN NORTH CAROLINA PUBLIC RADIO, INC	D	HAZELWOOD, ETC.	NC	APP	0.062	1852	246	3	97.7	0
1166399	41993	BPH	20070416ACW	WMGZ	SOUTHERN STONE BROADCASTING, INC.	C2	LEXINGTON	GA	APP	50	310	249	0	101.4	0



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

83° 22' 30"
34° 37' 30"

283000m E.

284

285

286

20'

3833000m N.

6 MI. TO U.S. 23 & 441
MIDWAY 2.7 MI.

Facility id: 151910;
Area of Interference;

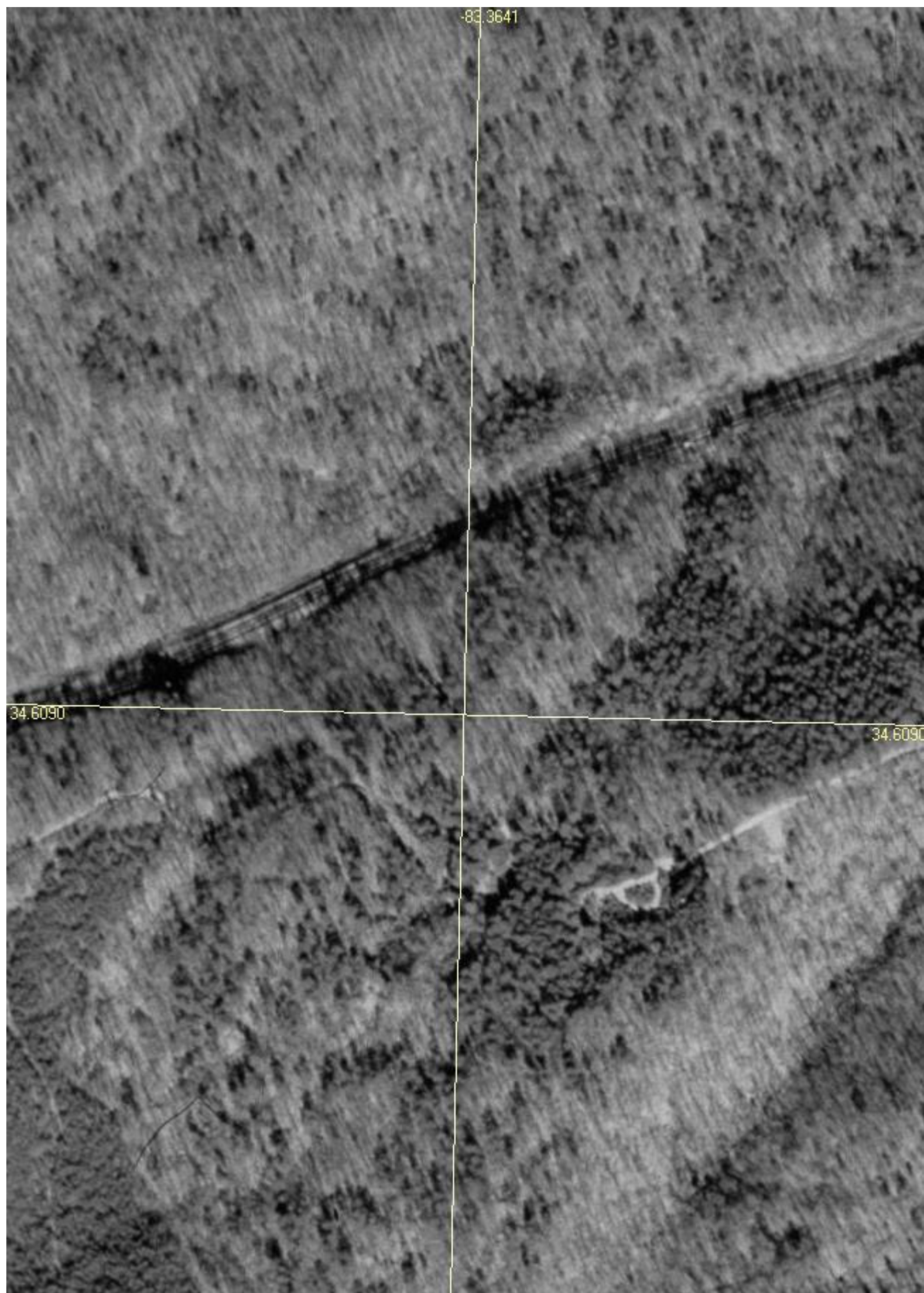
CHATTAHOOC

3831

3830

3829

35'



-83.3641

34.6090

34.6090