

**Exhibit 15-U-18**  
**Composite WVAR Conductivity Data**

WVAR	600 kHz	Lic	NDDU	Facil. ID 54371	20060522
WV	RICHWOOD			1.000 kW 1 Tower	0 Augmentations
N.Lat:	38 13 50	W.Lon:	80 32 49		8 Measured Cond

' ' means estimated conductivity, from M-3 map.  
'M\*' means measured conductivity (main bearing).

All distances are in kilometers (US metric curves)  
All distances are cumulative.  
All radiations are in mV/m at one kilometer

Bearing	Radiation	Region		Region		Region	
		Cond	Dist	Cond	Dist	Cond	Dist
0.0	296.3	2.0	171.3	4.0	276.8	8.0	402.2
		4.0	414.7	8.0	450.1	10.0	482.8
		4.0	500.0				
5.0	296.3	2.0	95.5	4.0	118.2	2.0	174.7
		4.0	300.3	8.0	397.7	4.0	435.2
		8.0	438.1	4.0	438.5	8.0	465.2
		10.0	500.0				
		2.0	92.9	4.0	133.5	2.0	174.7
		4.0	321.0	2.0	397.4	4.0	453.9
10.0	296.3	8.0	492.8	10.0	500.0		
		2.0	91.8	4.0	154.6	2.0	171.0
		4.0	304.3	2.0	409.4	4.0	492.4
15.0	296.3	8.0	500.0				
		2.0	93.5	4.0	290.4	2.0	407.4
		4.0	500.0				
20.0	296.3	2.0	95.9	4.0	278.4	2.0	410.9
		4.0	500.0				
		2.0	99.3	4.0	270.7	2.0	420.3
25.0	296.3	4.0	500.0				
		2.0	105.4	4.0	267.1	2.0	432.8
		4.0	500.0				
30.0	296.3	2.0	114.1	4.0	366.3	2.0	454.4
		4.0	500.0				
		2.0	125.3	4.0	338.5	2.0	482.1
35.0	296.3	4.0	500.0				
		2.0	142.4	4.0	282.0	2.0	498.2
		4.0	500.0				
40.0	296.3	2.0	372.2	4.0	482.7	2.0	500.0
		2.0	331.2	4.0	500.0		
45.0	296.3						
50.0	296.3						
55.0	296.3						
60.0	296.3						

**Exhibit 15-U-18 (cont.)**  
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WVAR	600 kHz	Lic	NDDU	Facil. ID	54372	20060522
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N.Lat:	38 13 50	W.Lon:	80 32 49			8 Measured Cond

Bearing	Radiation	Region		Region		Region	
		Cond	Dist	Cond	Dist	Cond	Dist
65.0	296.3	2.0	371.1	4.0	500.0		
70.0	296.3	2.0	351.2	4.0	356.1	40.0	358.8
		4.0	371.5	40.0	371.9	4.0	377.5
		40.0	378.6	4.0	382.1	40.0	386.2
		4.0	390.0	40.0	392.7	4.0	394.7
		40.0	414.4	4.0	453.9	5000.0	457.5
		4.0	500.0				
75.0	296.3	2.0	314.9	4.0	358.9	40.0	361.0
		4.0	365.1	40.0	365.8	4.0	368.7
		40.0	386.4	4.0	386.7	40.0	393.5
		4.0	459.2	5000.0	479.0	4.0	500.0
80.0-	296.3	0.5-	30.0	0.1-	55.7	2.0	288.6
		4.0	300.1	5000.0	304.0	4.0	354.0
		40.0	370.2	4.0	372.7	40.0	376.2
		4.0	377.5	40.0	382.0	4.0	470.0
		5000.0	500.0				
85.0-	296.3	0.5-	30.0	0.1-	55.7	2.0	282.3
		4.0	283.9	5000.0	287.9	4.0	297.7
		5000.0	301.2	4.0	302.0	5000.0	308.5
		4.0	340.3	5000.0	345.0	4.0	348.9
		5000.0	349.4	4.0	358.2	5000.0	369.6
		2.0	480.2	5000.0	500.0		
90.0M*	296.3	0.5M*	30.0	0.1M*	55.7	2.0	294.2
		4.0	322.9	5000.0	350.5	4.0	355.5
		5000.0	357.7	4.0	367.6	5000.0	401.6
		2.0	402.3	5000.0	414.3	2.0	457.9
		5000.0	500.0				
95.0+	296.3	0.5+	30.0	0.1+	55.7	2.0	325.0
		5000.0	329.4	4.0	366.4	5000.0	367.7
		4.0	376.2	5000.0	426.4	2.0	443.9
		5000.0	500.0				
100.0+	296.3	0.5+	30.0	0.1+	55.7	2.0	376.4
		5000.0	412.4	2.0	416.2	5000.0	416.6
		2.0	425.5	5000.0	500.0		
105.0-	296.3	0.5-	36.0	0.1-	51.2	2.0	355.7
		5000.0	361.1	2.0	379.5	5000.0	418.6
		2.0	423.6	5000.0	500.0		

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N.Lat:	38 13 50	W.Lon:	80 32 49			8 Measured Cond

Bearing	Radiation	Region		Region		Region	
		Cond	Dist	Cond	Dist	Cond	Dist
110.0M*	296.3	0.5M*	36.0	0.1M*	51.2	2.0	371.4
		5000.0	397.4	4.0	434.2	5000.0	500.0
115.0+	296.3	0.5+	36.0	0.1+	51.2	2.0	373.9
		4.0	447.0	5000.0	500.0		
120.0+	296.3	0.5+	36.0	0.1+	51.2	2.0	390.5
		4.0	446.0	5000.0	487.1	4.0	498.0
		5000.0	500.0				
125.0-	296.3	0.5-	55.0	0.1-	64.0	2.0	410.5
		4.0	423.3	5000.0	432.8	4.0	500.0
130.0M*	296.3	0.5M*	55.0	0.1M*	64.0	2.0	419.0
		4.0	463.5	5000.0	475.5	4.0	476.9
		5000.0	500.0				
135.0+	296.3	0.5+	55.0	0.1+	64.0	2.0	417.8
		4.0	496.0	5000.0	500.4		
140.0+	296.3	0.5+	55.0	0.1+	64.0	2.0	161.0
		4.0	248.3	2.0	415.6	4.0	500.0
145.0-	296.3	2.0-	3.0	0.5-	8.0	1.0-	12.0
		0.5-	20.0	0.1-	56.6	2.0	162.8
		4.0	285.1	2.0	357.0	4.0	499.7
		5000.0	500.0				
150.0M*	296.3	2.0M*	3.0	0.5M*	8.0	1.0M*	12.0
		0.5M*	20.0	0.1M*	56.6	2.0	166.0
		4.0	500.0				
155.0+	296.3	2.0+	3.0	0.5+	8.0	1.0+	12.0
		0.5+	20.0	0.1+	56.6	2.0	170.6
		4.0	334.1	2.0	430.0	4.0	500.0
160.0+	296.3	2.0+	3.0	0.5+	8.0	1.0+	12.0
		0.5+	20.0	0.1+	56.6	2.0	176.9
		4.0	320.5	2.0	433.9	4.0	500.0
165.0-	296.3	2.0-	2.0	0.5-	30.0	0.1-	75.0
		2.0	236.6	4.0	328.7	2.0	439.3
		4.0	500.0				
170.0M*	296.3	2.0M*	2.0	0.5M*	30.0	0.1M*	75.0
		2.0	250.2	4.0	342.3	2.0	448.1
		4.0	500.0				
175.0+	296.3	2.0+	2.0	0.5+	30.0	0.1+	75.0
		2.0	261.5	4.0	361.8	2.0	458.5
		4.0	500.0				

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Bearing	Radiation	Region		Region		Region	
		Cond	Dist	Cond	Dist	Cond	Dist
180.0+	296.3	2.0+	2.0	0.5+	30.0	0.1+	75.0
		2.0	289.6	4.0	390.6	2.0	471.8
		4.0	500.0				
185.0-	296.3	1.5-	10.0	1.0-	20.0	0.5-	25.0
		0.1-	59.9	2.0	333.9	4.0	426.2
		2.0	494.7	4.0	500.0		
190.0M*	296.3	1.5M*	10.0	1.0M*	20.0	0.5M*	25.0
		0.1M*	59.9	2.0	371.1	4.0	469.6
		2.0	500.0				
195.0+	296.3	1.5+	10.0	1.0+	20.0	0.5+	25.0
		0.1+	59.9	2.0	403.4	4.0	500.0
200.0+	296.3	1.5+	10.0	1.0+	20.0	0.5+	25.0
		0.1+	59.9	2.0	421.1	4.0	500.0
205.0-	296.3	1.5-	5.0	0.5-	30.0	0.1-	56.2
		2.0	444.6	4.0	500.0		
210.0M*	296.3	1.5M*	5.0	0.5M*	30.0	0.1M*	56.2
		2.0	156.7	4.0	202.1	2.0	497.9
		4.0	500.0				
215.0+	296.3	1.5+	5.0	0.5+	30.0	0.1+	56.2
		2.0	149.8	4.0	241.6	2.0	500.0
220.0+	296.3	1.5+	5.0	0.5+	30.0	0.1+	56.2
		2.0	153.1	4.0	302.7	2.0	500.0
225.0-	296.3	1.0-	3.0	0.5-	10.0	0.1-	67.4
		2.0	175.4	4.0	316.9	2.0	500.0
230.0M*	296.3	1.0M*	3.0	0.5M*	10.0	0.1M*	67.4
		2.0	214.7	4.0	305.9	2.0	500.5
235.0+	296.3	1.0+	3.0	0.5+	10.0	0.1+	67.4
		2.0	270.3	4.0	296.9	2.0	500.0
240.0+	296.3	1.0+	3.0	0.5+	10.0	0.1+	67.4
		2.0	455.8	4.0	500.0		
245.0	296.3	2.0	437.4	4.0	500.0		
250.0	296.3	2.0	409.7	4.0	500.0		
255.0	296.3	2.0	305.8	8.0	378.3	4.0	500.0
260.0	296.3	2.0	283.8	8.0	355.1	4.0	500.0
265.0	296.3	2.0	277.5	8.0	344.3	4.0	500.0
270.0	296.3	2.0	273.5	8.0	416.3	4.0	500.0
275.0	296.3	2.0	271.6	8.0	500.0		
280.0	296.3	2.0	271.8	8.0	500.0		
285.0	296.3	2.0	271.9	8.0	500.0		
290.0	296.3	2.0	272.0	8.0	500.0		

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