

Exhibit 15-H-18 Composite WDNC Conductivity Data

WDNC 620 kHz Lic DA2U BL030131KI 20060522
 NC DURHAM 5.000 kW 3 Towers 6 Augmentations
 N.Lat: 36 02 03 W.Lon: 78 57 47 18 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- | 309.7 | 1.0- | 23.0 | 0.5- | 50.0 | 1.0- | 70.0 |
| | | 0.8- | 81.1 | 4.0 | 87.1 | 2.0 | 342.9 |
| | | 4.0 | 478.4 | 2.0 | 600.0 | | |
| 1.0M* | 298.0 | 1.0M* | 23.0 | 0.5M* | 50.0 | 1.0M* | 70.0 |
| | | 0.8M* | 81.1 | 4.0 | 85.4 | 2.0 | 345.9 |
| | | 4.0 | 470.6 | 2.0 | 600.0 | | |
| 5.0+ | 257.2 | 1.0+ | 23.0 | 0.5+ | 50.0 | 1.0+ | 70.0 |
| | | 0.8+ | 81.1 | 2.0 | 361.9 | 4.0 | 486.6 |
| | | 2.0 | 600.0 | | | | |
| 10.0- | 241.4 | 0.5- | 72.1 | 2.0 | 415.1 | 4.0 | 537.5 |
| | | 2.0 | 600.0 | | | | |
| 11.0M* | 245.2 | 0.5M* | 72.1 | 2.0 | 434.6 | 4.0 | 532.4 |
| | | 2.0 | 600.0 | | | | |
| 15.0+ | 287.0 | 0.5+ | 72.1 | 2.0 | 600.0 | | |
| 19.0+ | 366.7 | 0.5+ | 72.1 | 2.0 | 600.0 | | |
| 20.0+ | 390.7 | 0.5+ | 72.1 | 2.0 | 433.7 | 4.0 | 462.7 |
| | | 2.0 | 600.0 | | | | |
| 21.0- | 415.6 | 0.1- | 3.0 | 0.5- | 111.7 | 2.0 | 432.5 |
| | | 4.0 | 505.3 | 2.0 | 600.0 | | |
| 25.0- | 521.5 | 0.1- | 3.0 | 0.5- | 111.7 | 2.0 | 442.3 |
| | | 4.0 | 554.8 | 2.0 | 600.0 | | |
| 29.0M* | 630.8 | 0.1M* | 3.0 | 0.5M* | 111.7 | 2.0 | 297.0 |
| | | 4.0 | 297.8 | 5000.0 | 306.8 | 4.0 | 327.9 |
| | | 5000.0 | 334.3 | 4.0 | 338.9 | 5000.0 | 342.0 |
| | | 4.0 | 345.5 | 5000.0 | 349.1 | 4.0 | 411.9 |
| | | 40.0 | 414.0 | 4.0 | 600.0 | | |

| | | | | | |
|--------|----------|--------|----------|------------|------------------|
| WDNC | 620 kHz | Lic | DA2U | BL030131KI | 20060522 |
| NC | DURHAM | | | 5.000 kW | 3 Towers |
| N.Lat: | 36 02 03 | W.Lon: | 78 57 47 | | 6 Augmentations |
| | | | | | 18 Measured Cond |

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| | | | | | | |
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Exhibit 15-H-18 (cont.)
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| NC | DURHAM | | | 5.000 kW | 3 Towers |
| N.Lat: | 36 02 03 | W.Lon: | 78 57 47 | | 6 Augmentations |
| | | | | | 18 Measured Cond |

| Bearing | Radiation | Region | | Region | | Region | |
|---------|-----------|--------|-------|--------|-------|--------|-------|
| | | Cond | Dist | Cond | Dist | Cond | Dist |
| 124.5+ | 842.0 | 2.0+ | 9.7 | 5.0+ | 25.7 | 2.5+ | 35.9 |
| 125.0 | 844.1 | 2.0 | 136.9 | 4.0 | 243.8 | 5000.0 | 600.0 |
| | | 4.0 | 22.5 | 2.0 | 128.2 | 4.0 | 250.5 |
| 130.0 | 871.0 | 5000.0 | 600.0 | | | | |
| | | 4.0 | 23.2 | 2.0 | 75.8 | 4.0 | 219.7 |
| 135.0 | 906.0 | 5000.0 | 220.3 | 4.0 | 229.5 | 5000.0 | 600.0 |
| | | 4.0 | 24.0 | 2.0 | 53.5 | 4.0 | 223.2 |
| 140.0 | 947.1 | 5000.0 | 600.0 | | | | |
| | | 4.0 | 25.0 | 2.0 | 41.6 | 4.0 | 220.4 |
| 145.0 | 991.5 | 5000.0 | 600.0 | | | | |
| | | 4.0 | 26.4 | 2.0 | 34.2 | 4.0 | 220.8 |
| 146.5- | 1005.0 | 3.0- | 36.0 | 4.0 | 221.3 | 5000.0 | 600.0 |
| 150.0- | 1035.6 | 3.0- | 36.0 | 4.0 | 223.2 | 5000.0 | 600.0 |
| 155.0- | 1075.3 | 3.0- | 36.0 | 4.0 | 109.4 | 2.0 | 148.7 |
| 156.5M* | 1085.7 | 4.0 | 239.3 | 5000.0 | 600.0 | | |
| | | 3.0M* | 36.0 | 4.0 | 100.8 | 2.0 | 149.9 |
| 160.0+ | 1106.0 | 4.0 | 245.3 | 5000.0 | 600.0 | | |
| | | 3.0+ | 36.0 | 4.0 | 85.4 | 2.0 | 150.7 |
| 165.0+ | 1122.9 | 4.0 | 254.3 | 5000.0 | 600.0 | | |
| | | 3.0+ | 36.0 | 4.0 | 75.9 | 2.0 | 151.7 |
| 166.5+ | 1124.6 | 4.0 | 245.8 | 5000.0 | 600.0 | | |
| | | 3.0+ | 36.0 | 4.0 | 73.6 | 2.0 | 152.2 |
| 170.0 | 1121.6 | 4.0 | 243.9 | 5000.0 | 600.0 | | |
| | | 4.0 | 69.0 | 2.0 | 154.6 | 4.0 | 245.7 |
| 173.5- | 1107.7 | 5000.0 | 600.0 | | | | |
| | | 1.5- | 56.3 | 1.0- | 76.4 | 2.0 | 158.2 |
| 175.0- | 1098.2 | 4.0 | 248.4 | 5000.0 | 600.0 | | |
| | | 1.5- | 56.3 | 1.0- | 76.4 | 2.0 | 159.9 |
| 180.0- | 1050.2 | 4.0 | 249.9 | 5000.0 | 600.0 | | |
| | | 1.5- | 56.3 | 1.0- | 76.4 | 2.0 | 166.5 |
| 183.5M* | 1001.6 | 4.0 | 270.8 | 5000.0 | 600.0 | | |
| | | 1.5M* | 56.3 | 1.0M* | 76.4 | 2.0 | 171.6 |
| 185.0+ | 977.0 | 4.0 | 297.0 | 5000.0 | 600.0 | | |
| | | 1.5+ | 56.3 | 1.0+ | 76.4 | 2.0 | 174.1 |
| 190.0+ | 879.8 | 4.0 | 294.3 | 5000.0 | 296.7 | 4.0 | 304.2 |
| | | 5000.0 | 308.5 | 4.0 | 324.7 | 5000.0 | 600.0 |
| 190.0+ | 879.8 | 1.5+ | 56.3 | 1.0+ | 76.4 | 2.0 | 183.9 |
| | | 4.0 | 350.4 | 5000.0 | 600.0 | | |

Exhibit 15-H-18 (cont.)
Composite WDNC Conductivity Data

| | | | | | |
|--------|----------|--------|----------|------------|------------------|
| WDNC | 620 kHz | Lic | DA2U | BL030131KI | 20060522 |
| NC | DURHAM | | | 5.000 kW | 3 Towers |
| N.Lat: | 36 02 03 | W.Lon: | 78 57 47 | | 6 Augmentations |
| | | | | | 18 Measured Cond |

| Bearing | Radiation | Region | | Region | | Region | |
|---------|-----------|--------|-------|--------|-------|--------|-------|
| | | Cond | Dist | Cond | Dist | Cond | Dist |
| 193.5- | 799.3 | 1.5- | 8.0 | 3.0- | 20.1 | 2.0- | 35.7 |
| | | 4.0 | 57.3 | 2.0 | 192.4 | 4.0 | 371.0 |
| | | 5000.0 | 375.9 | 4.0 | 379.2 | 5000.0 | 381.2 |
| | | 4.0 | 386.0 | 5000.0 | 600.0 | | |
| 195.0- | 762.3 | 1.5- | 8.0 | 3.0- | 20.1 | 2.0- | 35.7 |
| | | 4.0 | 57.6 | 2.0 | 196.5 | 4.0 | 396.7 |
| | | 5000.0 | 600.0 | | | | |
| 200.0M* | 630.8 | 1.5M* | 8.0 | 3.0M* | 20.1 | 2.0M* | 35.7 |
| | | 4.0 | 58.7 | 2.0 | 211.9 | 4.0 | 415.7 |
| | | 5000.0 | 421.6 | 4.0 | 422.3 | 8.0 | 431.7 |
| | | 5000.0 | 600.0 | | | | |
| 203.5M* | 535.1 | 1.5M* | 5.8 | 2.0M* | 11.3 | 3.0M* | 19.3 |
| | | 2.0M* | 35.2 | 4.0 | 59.9 | 2.0 | 224.5 |
| | | 4.0 | 426.9 | 8.0 | 430.6 | 5000.0 | 436.9 |
| | | 8.0 | 482.0 | 5000.0 | 521.3 | 8.0 | 521.6 |
| | | 5000.0 | 529.8 | 8.0 | 539.5 | 5000.0 | 566.7 |
| | | 8.0 | 567.1 | 5000.0 | 597.7 | 8.0 | 602.4 |
| 205.0+ | 494.4 | 1.5+ | 5.8 | 2.0+ | 11.3 | 3.0+ | 19.3 |
| | | 2.0+ | 35.2 | 4.0 | 61.1 | 2.0 | 231.0 |
| | | 4.0 | 481.6 | 8.0 | 532.9 | 5000.0 | 535.1 |
| | | 8.0 | 600.0 | | | | |
| 208.0+ | 416.0 | 1.5+ | 5.8 | 2.0+ | 11.3 | 3.0+ | 19.3 |
| | | 2.0+ | 35.2 | 4.0 | 64.2 | 2.0 | 243.6 |
| | | 4.0 | 600.0 | | | | |
| 210.0+ | 367.8 | 1.5+ | 5.8 | 2.0+ | 11.3 | 3.0+ | 19.3 |
| | | 2.0+ | 35.2 | 4.0 | 66.6 | 2.0 | 253.3 |
| | | 4.0 | 600.0 | | | | |
| 213.5- | 296.9 | 1.0- | 81.7 | 2.0 | 274.7 | 4.0 | 600.0 |
| 215.0- | 273.8 | 1.0- | 81.7 | 2.0 | 286.5 | 4.0 | 600.0 |
| 218.0M* | 245.3 | 1.0M* | 81.7 | 4.0 | 91.7 | 2.0 | 319.2 |
| | | 4.0 | 431.8 | 2.0 | 447.5 | 4.0 | 600.0 |
| 220.0+ | 240.5 | 1.0+ | 81.7 | 4.0 | 104.7 | 2.0 | 466.9 |
| | | 4.0 | 600.0 | | | | |
| 223.0+ | 253.9 | 1.0+ | 81.7 | 4.0 | 133.8 | 2.0 | 470.9 |
| | | 4.0 | 600.0 | | | | |
| 225.0+ | 272.5 | 1.0+ | 81.7 | 4.0 | 217.8 | 2.0 | 462.0 |
| | | 4.0 | 600.0 | | | | |
| 228.0- | 306.8 | 0.5- | 1.8 | 1.5- | 80.5 | 1.0- | 116.8 |
| | | 4.0 | 600.0 | | | | |
| 230.0- | 340.6 | 0.5- | 1.8 | 1.5- | 80.5 | 1.0- | 116.8 |
| | | 4.0 | 600.0 | | | | |

Exhibit 15-H-18 (cont.)
Composite WDNC Conductivity Data

| | | | | | |
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| NC | DURHAM | | | 5.000 kW | 3 Towers |
| N.Lat: | 36 02 03 | W.Lon: | 78 57 47 | | 6 Augmentations |
| | | | | | 18 Measured Cond |

| Bearing | Radiation | Region | | Region | | Region | |
|---------|-----------|--------|-------|--------|-------|--------|-------|
| | | Cond | Dist | Cond | Dist | Cond | Dist |
| 233.0M* | 389.5 | 0.5M* | 1.8 | 1.5M* | 80.5 | 1.0M* | 116.8 |
| | | 4.0 | 600.0 | | | | |
| 235.0+ | 399.0 | 0.5+ | 1.8 | 1.5+ | 80.5 | 1.0+ | 116.8 |
| | | 4.0 | 600.0 | | | | |
| 240.0+ | 417.1 | 0.5+ | 1.8 | 1.5+ | 80.5 | 1.0+ | 116.8 |
| | | 4.0 | 246.3 | 2.0 | 284.6 | 4.0 | 527.8 |
| 243.0+ | 429.1 | 1.0 | 589.9 | 4.0 | 595.8 | 2.0 | 600.0 |
| | | 0.5+ | 1.8 | 1.5+ | 80.5 | 1.0+ | 116.8 |
| | | 4.0 | 196.5 | 2.0 | 327.2 | 4.0 | 506.6 |
| | | 1.0 | 563.9 | 2.0 | 600.0 | | |
| 245.0- | 434.1 | 1.0- | 4.8 | 1.5- | 12.9 | 2.0- | 37.0 |
| | | 1.5- | 114.7 | 2.0- | 169.5 | 4.0 | 179.1 |
| | | 2.0 | 364.4 | 4.0 | 443.5 | 2.0 | 502.0 |
| | | 1.0 | 545.0 | 2.0 | 600.0 | | |
| 250.0- | 437.4 | 1.0- | 4.8 | 1.5- | 12.9 | 2.0- | 37.0 |
| | | 1.5- | 114.7 | 2.0- | 169.5 | 2.0 | 600.0 |
| 253.0M* | 432.6 | 1.0M* | 4.8 | 1.5M* | 12.9 | 2.0M* | 37.0 |
| | | 1.5M* | 114.7 | 2.0M* | 169.5 | 2.0 | 558.5 |
| | | 4.0 | 600.0 | | | | |
| 255.0+ | 427.1 | 1.0+ | 4.8 | 1.5+ | 12.9 | 2.0+ | 37.0 |
| | | 1.5+ | 114.7 | 2.0+ | 169.5 | 2.0 | 528.1 |
| | | 4.0 | 600.0 | | | | |
| 260.0+ | 406.7 | 1.0+ | 4.8 | 1.5+ | 12.9 | 2.0+ | 37.0 |
| | | 1.5+ | 114.7 | 2.0+ | 169.5 | 2.0 | 512.0 |
| | | 4.0 | 584.7 | 2.0 | 600.0 | | |
| 261.0+ | 401.7 | 1.0+ | 4.8 | 1.5+ | 12.9 | 2.0+ | 37.0 |
| | | 1.5+ | 114.7 | 2.0+ | 169.5 | 2.0 | 516.3 |
| | | 4.0 | 574.7 | 2.0 | 600.0 | | |
| 263.0- | 391.1 | 1.3- | 73.9 | 4.0 | 118.9 | 2.0 | 600.0 |
| 265.0- | 379.9 | 1.3- | 73.9 | 4.0 | 111.2 | 2.0 | 600.0 |
| 270.0- | 382.0 | 1.3- | 73.9 | 4.0 | 96.0 | 2.0 | 558.8 |
| | | 4.0 | 600.0 | | | | |
| 271.0M* | 379.8 | 1.3M* | 73.9 | 4.0 | 93.3 | 2.0 | 352.2 |
| | | 4.0 | 359.0 | 2.0 | 545.5 | 4.0 | 600.0 |
| 275.0+ | 325.1 | 1.3+ | 73.9 | 4.0 | 85.0 | 2.0 | 318.4 |
| | | 4.0 | 370.3 | 2.0 | 541.4 | 4.0 | 600.0 |
| 280.0+ | 295.4 | 1.3+ | 73.9 | 4.0 | 82.7 | 2.0 | 284.6 |
| | | 4.0 | 386.5 | 2.0 | 539.0 | 4.0 | 600.0 |

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| NC | DURHAM | | | 5.000 kW | 3 Towers | 6 Augmentations |
| N.Lat: | 36 02 03 | W.Lon: | 78 57 47 | | | 18 Measured Cond |

| Bearing | Radiation | Region | | Region | | Region | |
|---------|-----------|--------|-------|--------|-------|--------|-------|
| | | Cond | Dist | Cond | Dist | Cond | Dist |
| 281.0+ | 290.8 | 1.3+ | 73.9 | 4.0 | 82.4 | 2.0 | 279.0 |
| | | 4.0 | 390.1 | 2.0 | 538.0 | 4.0 | 600.0 |
| 284.5- | 276.9 | 1.0- | 80.0 | 0.5- | 85.3 | 2.0 | 261.4 |
| | | 4.0 | 374.2 | 2.0 | 532.9 | 4.0 | 600.0 |
| 285.0- | 275.2 | 1.0- | 80.0 | 0.5- | 85.3 | 2.0 | 259.2 |
| | | 4.0 | 368.5 | 2.0 | 531.9 | 4.0 | 600.0 |
| 290.0- | 262.5 | 1.0- | 80.0 | 0.5- | 85.3 | 2.0 | 239.8 |
| | | 4.0 | 322.7 | 2.0 | 472.5 | 8.0 | 523.9 |
| | | 4.0 | 600.0 | | | | |
| 294.0- | 258.8 | 1.0- | 80.0 | 0.5- | 85.3 | 4.0 | 87.1 |
| | | 2.0 | 234.4 | 4.0 | 297.1 | 2.0 | 462.0 |
| | | 8.0 | 527.8 | 4.0 | 600.0 | | |
| 294.5M* | 258.7 | 1.0M* | 80.0 | 0.5M* | 85.3 | 4.0 | 87.6 |
| | | 2.0 | 235.5 | 4.0 | 294.3 | 2.0 | 462.6 |
| | | 8.0 | 529.6 | 4.0 | 600.1 | | |
| 295.0+ | 258.8 | 1.0+ | 80.0 | 0.5+ | 85.3 | 4.0 | 88.1 |
| | | 2.0 | 236.6 | 4.0 | 291.6 | 2.0 | 463.2 |
| | | 8.0 | 531.5 | 4.0 | 582.6 | 8.0 | 600.0 |
| 300.0- | 264.0 | 1.0- | 60.0 | 0.5- | 89.3 | 4.0 | 94.7 |
| | | 2.0 | 477.3 | 8.0 | 600.0 | | |
| 304.0M* | 274.1 | 1.0M* | 60.0 | 0.5M* | 89.3 | 4.0 | 106.4 |
| | | 2.0 | 492.4 | 8.0 | 600.0 | | |
| 304.5+ | 275.7 | 1.0+ | 60.0 | 0.5+ | 89.3 | 4.0 | 108.1 |
| | | 2.0 | 494.5 | 8.0 | 600.0 | | |
| 305.0+ | 277.4 | 1.0+ | 60.0 | 0.5+ | 89.3 | 4.0 | 109.8 |
| | | 2.0 | 496.7 | 8.0 | 600.0 | | |
| 310.0+ | 298.1 | 1.0+ | 60.0 | 0.5+ | 89.3 | 4.0 | 112.7 |
| | | 2.0 | 516.9 | 8.0 | 600.0 | | |
| 314.0+ | 318.8 | 1.0+ | 60.0 | 0.5+ | 89.3 | 4.0 | 112.2 |
| | | 2.0 | 525.0 | 8.0 | 600.0 | | |
| 315.0- | 324.4 | 0.8- | 22.0 | 1.0- | 50.0 | 0.5- | 95.4 |
| | | 4.0 | 112.1 | 2.0 | 524.0 | 8.0 | 600.0 |
| 320.0- | 354.0 | 0.8- | 22.0 | 1.0- | 50.0 | 0.5- | 95.4 |
| | | 4.0 | 112.4 | 2.0 | 501.7 | 8.0 | 600.0 |
| 324.0M* | 378.0 | 0.8M* | 22.0 | 1.0M* | 50.0 | 0.5M* | 95.4 |
| | | 4.0 | 113.2 | 2.0 | 493.7 | 8.0 | 596.2 |
| | | 15.0 | 600.0 | | | | |

| | | | | | | |
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