

**Microwave Path Data Sheet**

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**COMSEARCH**19700 Janelia Farm Boulevard, Ashburn, VA, 20147  
(703)726-5824 [www.comsearch.com](http://www.comsearch.com)

PCN Date: 09/21/2011

Job Number: 110330COMSFB03

|                                    |  |                                                |                                          |
|------------------------------------|--|------------------------------------------------|------------------------------------------|
| <b>Administrative Information</b>  |  | <b>HWY 580 CA</b>                              | <b>DT TRACY CA</b>                       |
| City/County                        |  | /San Joaquin                                   | Tracy/San Joaquin                        |
| Status / License Basis             |  | Engineering Proposal / PRIMARY OPERATION       | Engineering Proposal / PRIMARY OPERATION |
| Call Sign                          |  |                                                |                                          |
| Licensee Code                      |  | 5165A1                                         | 5165A1                                   |
| Licensee Name                      |  | New Cingular Wireless PCS LLC – N C            | New Cingular Wireless PCS LLC – N C      |
| Radio Service / Station Class      |  | CF -- Point-to-Point Microwave, Common Carrier | FXO -- Fixed                             |
| <b>Site Information</b>            |  |                                                |                                          |
| Latitude (NAD 83)                  |  | 37 °39' 34.4" N                                | 37 °44' 20.3" N                          |
| Longitude (NAD 83)                 |  | 121 °26' 0.4" W                                | 121 °25' 7.3" W                          |
| Ground Elevation (m/ft-AMSL)       |  | 75.90 / 249.0                                  | 16.00 / 52.5                             |
| Antenna Structure Registration #   |  | 1224433                                        |                                          |
| Path Azimuth (°)                   |  | 8.390                                          | 188.399                                  |
| Path Length (km / miles)           |  | 8.910 / 5.536                                  |                                          |
| <b>Transmit Antenna</b>            |  |                                                |                                          |
| Manufacturer                       |  | 77043A<br>ANDREW CORPORATION                   | 77043A<br>ANDREW CORPORATION             |
| Model                              |  | VHLP4-11B                                      | VHLP4-11B                                |
| Gain(dBi) / Beamwidth(°) / Tilt(°) |  | 40.4 / 1.50 / -0.43                            | 40.4 / 1.50 / 0.37                       |
| Centerline (m / ft – AGL)          |  | 18.34 / 60.2                                   | 16.76 / 55.0                             |
| <b>Receive Antenna</b>             |  | Same As Transmit                               |                                          |
| Manufacturer                       |  |                                                |                                          |
| Model                              |  |                                                |                                          |
| Gain (dBi) / Beamwidth (°)         |  |                                                |                                          |
| Centerline (m / ft – AGL)          |  |                                                |                                          |
| <b>Diversity Receive Antenna</b>   |  |                                                |                                          |
| Manufacturer                       |  |                                                |                                          |
| Model                              |  |                                                |                                          |
| Gain (dBi) / Beamwidth (°)         |  |                                                |                                          |
| Centerline (m / ft – AGL)          |  |                                                |                                          |
| <b>Radio Information</b>           |  |                                                |                                          |
| Manufacturer                       |  | TEMU52<br>Alcatel-Lucent USA, Inc.             | TEMU52<br>Alcatel-Lucent USA, Inc.       |
| Model                              |  | 95MPR11-H32F30-114                             | 95MPR11-H32F30-114                       |
| Model Description                  |  | 9500 MPR Indoor Fixed Modulation               | 9500 MPR Indoor Fixed Modulation         |
| Emission Designator / Modulation   |  | 30M0D7W 32 QAM                                 | 30M0D7W 32 QAM                           |
| Loading                            |  | 1 CH DIG 114200.000                            | 1 CH DIG 114200.000                      |
| Stability (%)                      |  | 0.001                                          | 0.001                                    |
|                                    |  | Nominal Coordinated Maximum                    | Nominal Coordinated Maximum              |
| Power (dBm)                        |  | 30.0                                           | 30.0                                     |
| Received Level (dBm)               |  | -36.6                                          | -36.6                                    |
| EIRP (dBm)                         |  | 62.6                                           | 63.2                                     |
| Fixed Loss: Tx / Common (dB)       |  | 0.0 / 7.8                                      | 0.0 / 7.2                                |
| Free Space Loss (dB)               |  |                                                | 132.4                                    |
| <b>Transmit Frequencies (MHz)</b>  |  | 11365.0000V(5)                                 | 10875.0000V(5)                           |

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Job Number 110330COMSFB03

|                                    |                                                |                                          |
|------------------------------------|------------------------------------------------|------------------------------------------|
| <b>Administrative Information</b>  | <b>KANSAS&amp;43 CA</b>                        | <b>CNTRLHANFORD CA</b>                   |
| City/County                        | /Kings                                         | /Kings                                   |
| Status / License Basis             | Engineering Proposal / PRIMARY OPERATION       | Engineering Proposal / PRIMARY OPERATION |
| Call Sign                          |                                                |                                          |
| Licensee Code                      | 5165A1                                         | 5165A1                                   |
| Licensee Name                      | New Cingular Wireless PCS LLC – N C            | New Cingular Wireless PCS LLC – N C      |
| Radio Service / Station Class      | CF -- Point-to-Point Microwave, Common Carrier | FXO -- Fixed                             |
| <b>Site Information</b>            |                                                |                                          |
| Latitude (NAD 83)                  | 36 ° 12' 38.4" N                               | 36 ° 19' 53.4" N                         |
| Longitude (NAD 83)                 | 119 ° 36' 32.9" W                              | 119 ° 38' 11.0" W                        |
| Ground Elevation (m/ft-AMSL)       | 67.70 / 222.1                                  | 72.80 / 238.8                            |
| Antenna Structure Registration #   | 1215603                                        | 1257494                                  |
| Path Azimuth (°)                   | 349.659                                        | 169.643                                  |
| Path Length (km / miles)           | 13.630 / 8.469                                 |                                          |
| <b>Transmit Antenna</b>            | 77043A                                         | 77043A                                   |
| Manufacturer                       | ANDREW CORPORATION                             | ANDREW CORPORATION                       |
| Model                              | VHLP4-11B                                      | VHLP4-11B                                |
| Gain(dBi) / Beamwidth(°) / Tilt(°) | 40.4 / 1.50 / 0.00                             | 40.4 / 1.50 / -0.10                      |
| Centerline (m / ft – AGL)          | 10.97 / 36.0                                   | 17.85 / 58.6                             |
| <b>Receive Antenna</b>             | Same As Transmit                               |                                          |
| Manufacturer                       |                                                |                                          |
| Model                              |                                                |                                          |
| Gain (dBi) / Beamwidth (°)         |                                                |                                          |
| Centerline (m / ft – AGL)          |                                                |                                          |
| <b>Diversity Receive Antenna</b>   |                                                |                                          |
| Manufacturer                       |                                                |                                          |
| Model                              |                                                |                                          |
| Gain (dBi) / Beamwidth (°)         |                                                |                                          |
| Centerline (m / ft – AGL)          |                                                |                                          |
| <b>Radio Information</b>           | TEMU52                                         | TEMU52                                   |
| Manufacturer                       | Alcatel-Lucent USA, Inc.                       | Alcatel-Lucent USA, Inc.                 |
| Model                              | 95MPR11-H32F30-114                             | 95MPR11-H32F30-114                       |
| Model Description                  | 9500 MPR Indoor Fixed Modulation               | 9500 MPR Indoor Fixed Modulation         |
| Emission Designator / Modulation   | 30M0D7W 32 QAM                                 | 30M0D7W 32 QAM                           |
| Loading                            | 1 CH DIG 114200.000                            | 1 CH DIG 114200.000                      |
| Stability (%)                      | 0.001                                          | 0.001                                    |
|                                    | Nominal Coordinated Maximum                    | Nominal Coordinated Maximum              |
| Power (dBm)                        | 30.0                                           | 30.0                                     |
| Received Level (dBm)               | -39.7                                          | -39.7                                    |
| EIRP (dBm)                         | 63.2                                           | 63.2                                     |
| Fixed Loss: Tx / Common (dB)       | 0.0 / 7.2                                      | 0.0 / 7.2                                |
| Free Space Loss (dB)               |                                                | 136.1                                    |
| <b>Transmit Frequencies (MHz)</b>  | 11365.0000V(5)                                 | 10875.0000V(5)                           |

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|------------------------------------|------------------------------------------------|------------------------------------------|
| <b>Administrative Information</b>  | <b>ST LUCIA PRE CA</b>                         | <b>HIDDEN HILLS CA</b>                   |
| City/County                        | /Monterey                                      | /Monterey                                |
| Status / License Basis             | Engineering Proposal / PRIMARY OPERATION       | Engineering Proposal / PRIMARY OPERATION |
| Call Sign                          |                                                |                                          |
| Licensee Code                      | 5165A1                                         | 5165A1                                   |
| Licensee Name                      | New Cingular Wireless PCS LLC – N C            | New Cingular Wireless PCS LLC – N C      |
| Radio Service / Station Class      | CF -- Point-to-Point Microwave, Common Carrier | FXO -- Fixed                             |
| <b>Site Information</b>            |                                                |                                          |
| Latitude (NAD 83)                  | 36 °29' 21.7" N                                | 36 °33' 8.5" N                           |
| Longitude (NAD 83)                 | 121 °47' 20.4" W                               | 121 °47' 20.9" W                         |
| Ground Elevation (m/ft-AMSL)       | 661.34 / 2169.8                                | 363.63 / 1193.0                          |
| Antenna Structure Registration #   |                                                | 1049885                                  |
| Path Azimuth (°)                   | 359.898                                        | 179.898                                  |
| Path Length (km / miles)           |                                                | 6.991 / 4.344                            |
| <b>Transmit Antenna</b>            | 70709A                                         | 70709A                                   |
| Manufacturer                       | ANDREW CORPORATION                             | ANDREW CORPORATION                       |
| Model                              | VHLP800-11C                                    | VHLP800-11C                              |
| Gain(dBi) / Beamwidth(°) / Tilt(°) | 37.4 / 2.10 / -2.43                            | 37.4 / 2.10 / 2.38                       |
| Centerline (m / ft – AGL)          | 3.05 / 10.0                                    | 7.07 / 23.2                              |
| <b>Receive Antenna</b>             | Same As Transmit                               |                                          |
| Manufacturer                       |                                                |                                          |
| Model                              |                                                |                                          |
| Gain (dBi) / Beamwidth (°)         |                                                |                                          |
| Centerline (m / ft – AGL)          |                                                |                                          |
| <b>Diversity Receive Antenna</b>   |                                                |                                          |
| Manufacturer                       |                                                |                                          |
| Model                              |                                                |                                          |
| Gain (dBi) / Beamwidth (°)         |                                                |                                          |
| Centerline (m / ft – AGL)          |                                                |                                          |
| <b>Radio Information</b>           | TEMU52                                         | TEMU52                                   |
| Manufacturer                       | Alcatel-Lucent USA, Inc.                       | Alcatel-Lucent USA, Inc.                 |
| Model                              | 95MPR11-H32F30-114                             | 95MPR11-H32F30-114                       |
| Model Description                  | 9500 MPR Indoor Fixed Modulation               | 9500 MPR Indoor Fixed Modulation         |
| Emission Designator / Modulation   | 30M0D7W 32 QAM                                 | 30M0D7W 32 QAM                           |
| Loading                            | 1 CH DIG 114200.000                            | 1 CH DIG 114200.000                      |
| Stability (%)                      | 0.001                                          | 0.001                                    |
|                                    | Nominal Coordinated Maximum                    | Nominal Coordinated Maximum              |
| Power (dBm)                        | 30.0                                           | 30.0                                     |
| Received Level (dBm)               | -37.6                                          | -37.6                                    |
| EIRP (dBm)                         | 61.8                                           | 60.9                                     |
| Fixed Loss: Tx / Common (dB)       | 0.0 / 5.6                                      | 0.0 / 6.5                                |
| Free Space Loss (dB)               |                                                | 130.3                                    |
| <b>Transmit Frequencies (MHz)</b>  | 11325.0000V(4)                                 | 10835.0000V(4)                           |

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|------------------------------------|--|------------------------------------------------|------------------------------------------|
| <b>Administrative Information</b>  |  | <b>STEVINSON CA</b>                            | <b>NEWMAN CA</b>                         |
| City/County                        |  | /Merced                                        | Newman/Stanslaus                         |
| Status / License Basis             |  | Engineering Proposal / PRIMARY OPERATION       | Engineering Proposal / PRIMARY OPERATION |
| Call Sign                          |  |                                                |                                          |
| Licensee Code                      |  | 5165A1                                         | 5165A1                                   |
| Licensee Name                      |  | New Cingular Wireless PCS LLC – N C            | New Cingular Wireless PCS LLC – N C      |
| Radio Service / Station Class      |  | CF -- Point-to-Point Microwave, Common Carrier | FXO -- Fixed                             |
| <b>Site Information</b>            |  |                                                |                                          |
| Latitude (NAD 83)                  |  | 37 °18' 44.2" N                                | 37 °18' 31.9" N                          |
| Longitude (NAD 83)                 |  | 120 °50' 29.4" W                               | 121 °1' 2.7" W                           |
| Ground Elevation (m/ft-AMSL)       |  | 25.00 / 82.0                                   | 25.60 / 84.0                             |
| Antenna Structure Registration #   |  |                                                |                                          |
| Path Azimuth (°)                   |  | 268.660                                        | 88.554                                   |
| Path Length (km / miles)           |  | 15.599 / 9.693                                 |                                          |
| <b>Transmit Antenna</b>            |  |                                                |                                          |
| Manufacturer                       |  | 77043A                                         | 77043A                                   |
| Model                              |  | ANDREW CORPORATION                             | ANDREW CORPORATION                       |
| Gain(dBi) / Beamwidth(°) / Tilt(°) |  | VHLP4-11B                                      | VHLP4-11B                                |
| Centerline (m / ft – AGL)          |  | 40.4 / 1.50 / –0.06                            | 40.4 / 1.50 / –0.05                      |
|                                    |  | 12.56 / 41.2                                   | 10.40 / 34.1                             |
| <b>Receive Antenna</b>             |  | Same As Transmit                               |                                          |
| Manufacturer                       |  |                                                |                                          |
| Model                              |  |                                                |                                          |
| Gain (dBi) / Beamwidth (°)         |  |                                                |                                          |
| Centerline (m / ft – AGL)          |  |                                                |                                          |
| <b>Diversity Receive Antenna</b>   |  |                                                |                                          |
| Manufacturer                       |  |                                                |                                          |
| Model                              |  |                                                |                                          |
| Gain (dBi) / Beamwidth (°)         |  |                                                |                                          |
| Centerline (m / ft – AGL)          |  |                                                |                                          |
| <b>Radio Information</b>           |  |                                                |                                          |
| Manufacturer                       |  | TEMU52                                         | TEMU52                                   |
| Model                              |  | Alcatel-Lucent USA, Inc.                       | Alcatel-Lucent USA, Inc.                 |
| Model Description                  |  | 95MPR11-H32F30-114                             | 95MPR11-H32F30-114                       |
| Emission Designator / Modulation   |  | 9500 MPR Indoor Fixed Modulation               | 9500 MPR Indoor Fixed Modulation         |
| Loading                            |  | 30M0D7W 32 QAM                                 | 30M0D7W 32 QAM                           |
| Stability (%)                      |  | 1 CH DIG 114200.000                            | 1 CH DIG 114200.000                      |
|                                    |  | 0.001                                          | 0.001                                    |
|                                    |  | Nominal Coordinated Maximum                    | Nominal Coordinated Maximum              |
| Power (dBm)                        |  | 30.0                                           | 30.0                                     |
| Received Level (dBm)               |  | –40.7                                          | –40.7                                    |
| EIRP (dBm)                         |  | 63.2                                           | 63.4                                     |
| Fixed Loss: Tx / Common (dB)       |  | 0.0 / 7.2                                      | 0.0 / 7.0                                |
| Free Space Loss (dB)               |  |                                                | 137.3                                    |
| <b>Transmit Frequencies (MHz)</b>  |  | 11365.0000V(5)                                 | 10875.0000V(5)                           |

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PCN Date: 09/21/2011

Job Number 110330COMSFB03

|                                    |  |                                                |                                          |
|------------------------------------|--|------------------------------------------------|------------------------------------------|
| <b>Administrative Information</b>  |  | <b>HWY17&amp;VINE CA</b>                       | <b>SCOTTSVALLEY CA</b>                   |
| City/County                        |  | /Santa Cruz                                    | Scotts Valley/Santa Cruz                 |
| Status / License Basis             |  | Engineering Proposal / PRIMARY OPERATION       | Engineering Proposal / PRIMARY OPERATION |
| Call Sign                          |  |                                                |                                          |
| Licensee Code                      |  | 5165A1                                         | 5165A1                                   |
| Licensee Name                      |  | New Cingular Wireless PCS LLC – N C            | New Cingular Wireless PCS LLC – N C      |
| Radio Service / Station Class      |  | CF -- Point-to-Point Microwave, Common Carrier | FXO -- Fixed                             |
| <b>Site Information</b>            |  |                                                |                                          |
| Latitude (NAD 83)                  |  | 37 °5' 30.0" N                                 | 37 °2' 56.1" N                           |
| Longitude (NAD 83)                 |  | 121 °58' 37.6" W                               | 122 °1' 0.4" W                           |
| Ground Elevation (m/ft-AMSL)       |  | 449.35 / 1474.2                                | 170.91 / 560.7                           |
| Antenna Structure Registration #   |  |                                                |                                          |
| Path Azimuth (°)                   |  | 216.644                                        | 36.620                                   |
| Path Length (km / miles)           |  | 5.912 / 3.674                                  |                                          |
| <b>Transmit Antenna</b>            |  |                                                |                                          |
| Manufacturer                       |  | 87204A                                         | 87204A                                   |
| Model                              |  | ANDREW CORPORATION                             | ANDREW CORPORATION                       |
| Gain(dBi) / Beamwidth(°) / Tilt(°) |  | VHLP2-18B                                      | VHLP2-18B                                |
| Centerline (m / ft – AGL)          |  | 38.9 / 2.10 / -2.86                            | 38.9 / 2.10 / 2.82                       |
|                                    |  | 24.61 / 80.7                                   | 9.65 / 31.7                              |
| <b>Receive Antenna</b>             |  | Same As Transmit                               |                                          |
| Manufacturer                       |  |                                                |                                          |
| Model                              |  |                                                |                                          |
| Gain (dBi) / Beamwidth (°)         |  |                                                |                                          |
| Centerline (m / ft – AGL)          |  |                                                |                                          |
| <b>Diversity Receive Antenna</b>   |  |                                                |                                          |
| Manufacturer                       |  |                                                |                                          |
| Model                              |  |                                                |                                          |
| Gain (dBi) / Beamwidth (°)         |  |                                                |                                          |
| Centerline (m / ft – AGL)          |  |                                                |                                          |
| <b>Radio Information</b>           |  |                                                |                                          |
| Manufacturer                       |  | TEMT63                                         | TEMT63                                   |
| Model                              |  | Alcatel-Lucent USA, Inc.                       | Alcatel-Lucent USA, Inc.                 |
| Model Description                  |  | 95MPR18-O32F30-114                             | 95MPR18-O32F30-114                       |
| Emission Designator / Modulation   |  | 9500 MPR Outdoor Fixed Modulation HP           | 9500 MPR Outdoor Fixed Modulation HP     |
| Loading                            |  | 30M0D7W 32 QAM                                 | 30M0D7W 32 QAM                           |
| Stability (%)                      |  | 1 CH DIG 114000.000                            | 1 CH DIG 114000.000                      |
|                                    |  | 0.001                                          | 0.001                                    |
|                                    |  | Nominal Coordinated Maximum                    | Nominal Coordinated Maximum              |
| Power (dBm)                        |  | 17.0                                           | 17.0                                     |
| Received Level (dBm)               |  | -44.7                                          | -44.7                                    |
| EIRP (dBm)                         |  | 52.8                                           | 52.8                                     |
| Fixed Loss: Tx / Common (dB)       |  | 0.0 / 3.1                                      | 0.0 / 3.1                                |
| Free Space Loss (dB)               |  |                                                | 133.3                                    |
| <b>Transmit Frequencies (MHz)</b>  |  | 17815.0000V(3)                                 | 19375.0000V(3)                           |

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|                                    |                                                |                                          |
|------------------------------------|------------------------------------------------|------------------------------------------|
| <b>Administrative Information</b>  | <b>TAYLOR MON CA</b>                           | <b>NATOMAS AIR CA</b>                    |
| City/County                        | /Yolo                                          | Sacramento/Sacramento                    |
| Status / License Basis             | Engineering Proposal / PRIMARY OPERATION       | Engineering Proposal / PRIMARY OPERATION |
| Call Sign                          |                                                |                                          |
| Licensee Code                      | 5165A1                                         | 5165A1                                   |
| Licensee Name                      | New Cingular Wireless PCS LLC – N C            | New Cingular Wireless PCS LLC – N C      |
| Radio Service / Station Class      | CF -- Point-to-Point Microwave, Common Carrier | FXO -- Fixed                             |
| <b>Site Information</b>            |                                                |                                          |
| Latitude (NAD 83)                  | 38 °37' 31.1" N                                | 38 °37' 42.6" N                          |
| Longitude (NAD 83)                 | 121 °33' 54.0" W                               | 121 °30' 53.9" W                         |
| Ground Elevation (m/ft-AMSL)       | 9.00 / 29.5                                    | 4.00 / 13.1                              |
| Antenna Structure Registration #   |                                                |                                          |
| Path Azimuth (°)                   | 85.331                                         | 265.362                                  |
| Path Length (km / miles)           | 4.371 / 2.716                                  |                                          |
| <b>Transmit Antenna</b>            | 87205A                                         | 87205A                                   |
| Manufacturer                       | ANDREW CORPORATION                             | ANDREW CORPORATION                       |
| Model                              | VHLP2-23B                                      | VHLP2-23B                                |
| Gain(dBi) / Beamwidth(°) / Tilt(°) | 40.5 / 1.70 / 0.04                             | 40.5 / 1.70 / -0.07                      |
| Centerline (m / ft – AGL)          | 8.20 / 26.9                                    | 17.04 / 55.9                             |
| <b>Receive Antenna</b>             | Same As Transmit                               |                                          |
| Manufacturer                       |                                                |                                          |
| Model                              |                                                |                                          |
| Gain (dBi) / Beamwidth (°)         |                                                |                                          |
| Centerline (m / ft – AGL)          |                                                |                                          |
| <b>Diversity Receive Antenna</b>   |                                                |                                          |
| Manufacturer                       |                                                |                                          |
| Model                              |                                                |                                          |
| Gain (dBi) / Beamwidth (°)         |                                                |                                          |
| Centerline (m / ft – AGL)          |                                                |                                          |
| <b>Radio Information</b>           | <b>TENC44</b>                                  | <b>TENC44</b>                            |
| Manufacturer                       | Alcatel-Lucent USA, Inc.                       | Alcatel-Lucent USA, Inc.                 |
| Model                              | 95MPR23-O32F30-114                             | 95MPR23-O32F30-114                       |
| Model Description                  | 9500 MPR Outdoor Fixed Modulation              | 9500 MPR Outdoor Fixed Modulation        |
| Emission Designator / Modulation   | 30M0D7W 32 QAM                                 | 30M0D7W 32 QAM                           |
| Loading                            | 1 CH DIG 114000.000                            | 1 CH DIG 114000.000                      |
| Stability (%)                      | 0.001                                          | 0.001                                    |
|                                    | Nominal Coordinated Maximum                    | Nominal Coordinated Maximum              |
| Power (dBm)                        | 17.0                                           | 17.0                                     |
| Received Level (dBm)               | -40.4                                          | -40.4                                    |
| EIRP (dBm)                         | 54.4                                           | 54.4                                     |
| Fixed Loss: Tx / Common (dB)       | 0.0 / 3.1                                      | 0.0 / 3.1                                |
| Free Space Loss (dB)               |                                                | 132.2                                    |
| <b>Transmit Frequencies (MHz)</b>  | 23185.0000V(4)                                 | 21985.0000V(4)                           |