

**Microwave Path Data Sheet**

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**COMSEARCH**19700 Janelia Farm Boulevard, Ashburn, VA, 20147  
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Job Number: 100312COMSKN02

|                                    |  |                                                |                                          |
|------------------------------------|--|------------------------------------------------|------------------------------------------|
| <b>Administrative Information</b>  |  | <b>SAN JOSE 15 CA</b>                          | <b>DIABLO 45 CA</b>                      |
| City/County                        |  | San Jose/Santa Clara                           | /Santa Clara                             |
| Status / License Basis             |  | Engineering Proposal / PRIMARY OPERATION       | Engineering Proposal / PRIMARY OPERATION |
| Call Sign                          |  | WPOS357                                        | WPOT283                                  |
| Licensee Code                      |  | P6775                                          | P6775                                    |
| Licensee Name                      |  | AT&T California                                | AT&T California                          |
| Radio Service / Station Class      |  | CF -- Point-to-Point Microwave, Common Carrier | FXO -- Fixed                             |
| <b>Site Information</b>            |  |                                                |                                          |
| Latitude (NAD 83)                  |  | 37 °18' 29.8" N                                | 37 °19' 22.8" N                          |
| Longitude (NAD 83)                 |  | 121 °46' 48.8" W                               | 121 °45' 18.8" W                         |
| Ground Elevation (m/ft-AMSL)       |  | 78.03 / 256.0                                  | 292.61 / 960.0                           |
| Antenna Structure Registration #   |  |                                                | 1049603                                  |
| Path Azimuth (°)                   |  | 53.591                                         | 233.606                                  |
| Path Length (km / miles)           |  | 2.753 / 1.711                                  |                                          |
| <b>Transmit Antenna</b>            |  | CB0079                                         | CB0059                                   |
| Manufacturer                       |  | RFS                                            | RFS                                      |
| Model                              |  | DA4-190                                        | DA2-190                                  |
| Gain(dBi) / Beamwidth(°) / Tilt(°) |  | 44.7 / 0.90 / 4.51                             | 38.9 / 1.90 / -4.53                      |
| Centerline (m / ft - AGL)          |  | 6.10 / 20.0                                    | 9.14 / 30.0                              |
| <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>           |  | TEMB36                                         | TEMB36                                   |
| Manufacturer                       |  | NEC AMERICA                                    | NEC AMERICA                              |
| Model                              |  | TRP-18G-1A                                     | TRP-18G-1A                               |
| Model Description                  |  | NLITE SPLIT ARCHITECTURE                       | NLITE SPLIT ARCHITECTURE                 |
| Emission Designator / Modulation   |  | 20M0G7W 4 PSK                                  | 20M0G7W 4 PSK                            |
| Loading                            |  | 384 CH DIG 29751.000                           | 384 CH DIG 29751.000                     |
| Stability (%)                      |  | 0.001                                          | 0.001                                    |
|                                    |  | Nominal Coordinated Maximum                    | Nominal Coordinated Maximum              |
| Power (dBm)                        |  | 19.0                                           | 19.0                                     |
| Received Level (dBm)               |  | -26.1                                          | -26.1                                    |
| EIRP (dBm)                         |  | 62.7                                           | 56.9                                     |
| Fixed Loss: Tx / Common (dB)       |  | 0.0 / 1.0                                      | 0.0 / 1.0                                |
| Free Space Loss (dB)               |  |                                                | 126.7                                    |
| <b>Transmit Frequencies (MHz)</b>  |  | 19410.0000V(8)                                 | 17850.0000V(8)                           |