Fiber Optics Powerwave Legend: TX level 40dBm 4 Δ BIS -OdB Fixed values. 048 包 0dB Total UL gain Set values via O&M software 5dB 20dB 20dB OdB Calculated or resultant values BTS initial noise figure 20dB -107dBm OdB
Set and resultant UL gain values in red. BTS initial sensitivity -91.7dBm High, medium, and low values in the example. BTS sensitivity with repeater 1.5dBm 1.5dBm 15.3dB ♥ 0dB 0 1 0dB BTS sensitivity degradiation Fiber/WDM/ splitter loss Fiber/WDM/ splitter loss 9 1.5dBm FOR 1.5dBm Number of repeaters =3000 TANA CALL TX Att. 20dB BTS RX Att. 55dB UL gain 68dB FOR DPX 5dB ter noise figure

Figure 6-8. Nine FORs, low optical loss, high uplink gain and attenuation

Total DL gair

33dBm Limited repeater TX level

-91.8dBm

Figure 6-8 shows one of nine FORs connected to one of three FON units in the BMU with low optical loss, high uplink gain and high uplink attenuation. The BTS sensitivity degradation is high.

High total uplink gain and a BTS sensitivity with repeater very close to the BTS sensitivity at the repeater antenna indicates a similar coverage area for the BTS and the FOR.

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