

**ATTACHMENT 3:**  
**xDSL CAPABLE LOOP PERFORMANCE PARAMETER TESTS**

Note: As between Attachment 1 and Attachment 3, the terms of Attachment 1 control, should any discrepancy or apparent discrepancy be identified. See Attachment 1 regarding Conditioning.

<b>Required Tests</b>	<b>Expected Field Measurement Results</b>	<b>Notes</b>
Loop Length	Actual (Capacitive)	
Load Coils	None	
Opens	None	
Grounds	None	
Shorts	None	
Bridge Tap	<p>LX-N Maximum:            Total Length &lt;2500 ft            Single Tap Length &lt; 2000ft            No Near End /Far End BT( &gt;1000 ft)</p> <p>LXR- Maximum:            Total Length &lt;2500 ft            Single Tap Length &lt; 2000 ft            No Near End /Far End BT( &gt;1000 ft)</p> <p>Remove All Maximum: None</p>	See Exclusions
1004 Hz Loss	< -8.5dBm	
196 kHz Loss	<p>Actual Measured Loss (AML):            Maximum AML = EML + 5 dB</p> <p>LX-N Maximum dB Loss:            2- wire (e.g., NCI codes of            02QB9.00H and 02QB5.00G)            &lt;28.dB</p> <p>4- wire (e.g, NCI codes of            04QB9.00H, 04QB5.00G, and            04QB9.00F) &lt;31.dB</p> <p>LXR- Maximum dB Loss: LXR- &lt;78.dB</p>	<78 dB if such limit is within test set capability
40 kHz Loss	ISDN BRI <40.dB	

Insulation Resistance	Tip – Ground > 3.3 Meg Ohms Ring – Ground > 3.3 Meg Ohms Tip – Ring > 3.3 Meg Ohms	
Foreign Voltage - DC	Tip – Ground < 8 VDC Ring – Ground < 8 VDC Tip – Ring < 8 VDC	
Foreign Voltage - AC	Tip – Ground <50VAC Ring to Ground <50VAC	
Noise (C – Message)	< 23 dBrnC Far end 600 Ohm Termination	< 20 dBrnC Acceptable, >20 < 30 dBrnC Marginal, > 30 Unacceptable
Noise ( C – Notch)	< 45 dB	1004 Hz, 0 dBm Transmit
Line Balance	< to 10%	The length of the Tip side of the line compared to the length of the Ring to 10% difference
Longitudinal Balance	965 Type Meter <= 50 dB @ 196khz Other Meters <= 40 dB @ 196khz	
Power Influence	<=90 dBrnc	
D-Mark Tagged	Yes	

**SOUTH DAKOTA  
xDSL ADSL AMENDMENT**

		Recurring	Recurring Per Mile	Non- Recurring	REC	REC per Mile	NRC
<b>9.0</b>	<b>Unbundled Network Elements (UNEs)</b>						
9.2.2	Nonloaded Loops						
9.2.2.4	Cable Unloading / Bridge Tap Removal						
9.2.2.4.2	Cable Unloading / Bridge Tap Removal						
9.2.2.4.2.1	Conditioning (Tier 1)			\$58.50			A
9.2.2.4.2.2	Remove All Conditioning (Tier 2)			\$250.00			1
9.2.3	Digital Capable Loops						
9.2.3.9	ADSL Compatible Loops						
9.2.3.9.1	Cable Unloading / Bridge Tap Removal						
9.2.3.9.1.1	Conditioning (Tier 1)			\$58.50			A
9.2.3.9.1.2	Remove All Conditioning (Tier 2)			\$250.00			1

**NOTES:**

- A Qwest and AT&T Arbitration in Docket No. TC96-184, effective March 4, 1999
- 1 Rates not addressed in the Cost Docket (estimated TELRIC)