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.

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