TC Systems, Inc.	Section 3
P.S.C. No. 7 Telephone	Leaf No. 3
Access Services	Revision: 0
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SECTION 3 – DEDICATED ACCESS SERVICES

3.1 Dedicated Access Services (Cont'd)

3.1.4 <u>DS1 Service (1.544 Mbps)</u>

DS1 Service is composed of digital channels provided at 1.544 Mbps for the transmission of oneway and two-way communications. Interconnections to such channels and equipment interfacing to such channels shall meet the following technical characteristics:

Liı	ne Rate:	1.544 Mbps <u>+</u> 130 ppm	
Liı	ne Code:	AMI: bipolar with at least 12.5% average ones density and no more than 15 consecutive zeros;	
		B8ZS: no minimum density of ones and no consecutive zeros limit.	
Те	st Load:	100 ohms resistance.	
Pu	lse Shape:	The pulse amplitude shall be between 2.4 and 3.6 volts.	
Ро	wer Levels:	For an all-ones transmitted pattern, the power in a 2 KHz band about 772 KHz shall be 12.4-18.0 dBm and the power in a 2 KHz band about 1544 KHz shall be at least 29 dB below that in a 2 KHz band about 771 KHz.	
Pu Im	lse balance:	There shall be less than 0.5 dB difference between the total power of the positive pulses and the negative pulses.	
NO	DTES:		
1.	The CCI	The CCITT specification is \pm 50 ppm.	
2.	KHz sha	Recommended for new equipment: The power in a 2 KHz band about 772 KHz shall be 12.6-17.9 dBm. CCITT requirements: The power in a 3 KHz band about 772 KHz is 12.0-19.0 dBm.	
3.	be at lea	CCITT requirements: The power in a 3 KHz band about 1544 KHz shall be at least 25 dB below that in a 3 KHz band about 772 KHz.	
Digital channels at 1.544 Mbps will be provided in one of the following configurations, as specified by the customer:			
<u>Unframed DS1</u> : A DS1 signal that does not follow standard framing formats of 192 bits for data and a 193 Rd bit for framing. An unframed DS1 cannot be synchronized to the network and is			

not performance monitored.

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