Table of Contents 1st Revised Sheet 4.1 Canceling **Table of Contents Original Sheet 4.1**

LOCAL NETWORK ACCESS SERVICES

COLLOCATION SERVICE

		5
MICR	OWAVE COLLOCATION	
15.1	General	
15.2	Accommodations	
15.3	Security	
15.4	Safety and Technical Standards	
15.5	Placement and Removal of Facilities and Equipment	
15.6	Moves, Replacements or Other Modifications	
15.7	Space and Facilities	
15.8	Emergency Power and/or Environmental Support	
15.9	Escorting	
16.1	Description	
16.2	Implementation Intervals and Planning	
16.3	Transmission Failure	
16.4	Accommodations	
16.5	Spare Plug-ins and Cards	
16.6	Safety and Technical Standards	
16.7 16.8	Control Over Premises Based Equipment.	
16.9	Removal of Equipment	
16.10		
16.11	Use of Non-Standard Equipment	
16.12	Additions and Rearrangements	
	Application of Rates and Charges	
10.14	Conversions	

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Table of Contents 2nd Revised Sheet 5 Canceling Table of Contents 1st Revised Sheet 5

LOCAL NETWORK ACCESS SERVICES

COLLOCATION SERVICE

EXPLANATION OF SYMBOLS

(C) - To signify changed condition, rule, or regulation
 (D) - To signify discontinued rate, regulation, or condition
 (I) - To signify an increase in rate
 (K) - To signify that material has been transferred to another sheet in the tariff
 (M) - To signify material transferred from another sheet in the tariff
 (N) - To signify new rate, regulation, condition, or sheet
 (D) - To signify no change

(O) - To signify no change
 (R) - To signify a reduction in rate
 (T) - To signify a change in text

EXPLANATION OF ABBREVIATIONS

ASR Access Service Request BFR Bona Fide Request CLP Competing Local Provider DTS **Dedicated Transit Service** Federal Communication Commission FCC (N) (N) FAA Federal Aviation Agency GUEST -**Guest CLP** HOST Host CLP HVAC Heating, Ventilation and Air Conditioning Individual Case Basis **ICB**

NEBS - Network Equipment Building Systems
NRCs - Non-Recurring Charges

NRCs - Non-Recurring Charges
RCR - Relative Capacity Ratio

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LOCAL NETWORK ACCESS SERVICES

COLLOCATION SERVICE

MICROWAVE COLLOCATION 15.

15.1 General

Microwave collocation is available on a first-come, first-served basis where technically feasible. The microwave equipment may include microwave antenna(s), mounts, towers or other antenna support equipment on the exterior of the building, and radio transmitter/receiver equipment located either inside or on the exterior of the building. All microwave antennas must be physically interconnected to Company facilities through the collocation arrangement.

15.2 Accommodations

The Company will provide space within the cable riser and cable rack support structures and also between the transmitter/receiver space and the roof space needed to reach the physical or virtual collocation arrangement, and to access the Company's interconnection point. Wavequide may not be placed in Company cable risers or racks. The Company reserves the right to prohibit the installation of waveguide, metallic conduit and coaxial cable through or near sensitive equipment areas. The route of the waveguide and/or coaxial cable as well as any protection required will be discussed during the pre-construction survey.

The Company will designate the space in, on or above the exterior walls and roof of the premises which will constitute the roof space or transmitter/receiver space. Inside the premises the Company may require the CLP's transmitter/receiver equipment to be installed in a locked cabinet which may be free standing, wall mounted or relay rack mounted. The Company may enclose the CLP's multiplexing node or transmitter/receiver equipment in a cage or room.

The Company reserves the right to use existing support structures for a CLP's antenna, subject to space and capacity limitations. At the option of the Company, the antenna support structure shall be built, owned and maintained by either the Company or by the CLP. The Company also reserves the right to use any unused portion of a support structure owned by a CLP for any reason, subject to the provisions set forth below. It shall be the responsibility of the owner of the support structure to maintain a record of the net book value of the structure. When the Company is the owner of the structure, it shall keep such records in accordance with the Federal Communication Commission's (FCC) Part 32 uniform system of accounts. When the CLP is the owner of the structure, it shall keep such records in accordance with generally accepted accounting principles.

The owner of the support structure shall use reasonable efforts to accommodate requests by other CLPs to use the support structure for microwave interconnection on a first-come, first-served basis.

For those interconnecting via microwave facilities, transmitter/receiver equipment may be located in the CLP's interior collocation space, or in a separate location inside or on the exterior of the building as determined by the Company.

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LOCAL NETWORK ACCESS SERVICES

COLLOCATION SERVICE

MICROWAVE COLLOCATION (Cont'd) 15.

15.3 Security

The Company will permit the CLP's employees, agents and contractors approved by the Company to have access to the areas where the CLP's microwave antenna and associated equipment (e.g., tower and support structure, transmitter/receiver equipment, and wavequide and/or coaxial cable) is located during normal business hours for installation and routine maintenance, provided that the CLP employees, agents and contractors comply with the policies and practices of the Company pertaining to fire, safety and security. Such approval will not be unreasonably withheld. During non-business hours, the Company will provide access on a per event basis.

The Company will also permit all approved employees, agents and contractors of the CLP to have access to the CLP's cable and associated equipment (e.g., repeaters). This will include access to riser cable, cableways, and any room or area necessary for access.

15.4 Safety and Technical Standards

The Company reserves the right to remove facilities and equipment from its list of approved products if such products, facilities and equipment are determined to be no longer compliant with NEBS standards or electromagnetic compatibility and electrical safety generic criteria for network telecommunication equipment specified in GR - 1089 - CORE. The Company will provide 90 days notice of the change unless it is due to an emergency which renders notice impossible.

The Company reserves the right to review wind or ice loadings, etc., for antennas over 18 inches in diameter or for any multiple antenna installations, and to require changes necessary to insure that such loadings meet generally accepted engineering criteria for radio tower structures.

The minimum height of equipment placement, such as microwave antennas, must be eight feet from the roof. For masts, towers and/or antennas over 10 feet in height, the CLP or if applicable, the Company, shall have the complete structure, including guys and supports, inspected every two years by an acceptable licensed professional engineer of its choice specializing in this type of inspection. For CLP owned structures that are solely for the use of one CLP's antenna(s), such inspection will be at the CLP's own cost and expense. For structures used by multiple CLPs, the costs associated with such inspection shall be apportioned based on relative capacity ratios. A copy of this report may be filed with the Company within 10 days of the inspection. The owner shall be responsible to complete all maintenance and/or repairs, as recommended by the engineer, within 90 days.

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LOCAL NETWORK ACCESS SERVICES

COLLOCATION SERVICE

15. MICROWAVE COLLOCATION (Cont'd)

15.4 <u>Safety and Technical Standards</u> (Cont'd)

The CLP shall provide written notice to the Company of any complaint (and resolution of such complaint) by any governmental authority or others pertaining to the installation, maintenance or operation of the CLP's facilities or equipment located in roof space or transmitter/receiver space. The CLP also agrees to take all necessary corrective action.

All CLP microwave equipment to be installed in or on the exterior of the Company premises must be on the Company's list of approved products, or equipment that is demonstrated as complying with the technical specifications described herein. Where a difference may exist in the specifications, the more stringent shall apply.

CLP equipment must conform to the same specific risk, safety, hazard standards which the Company imposes on its own premises equipment as defined in RNSA – NEB – 95 – 0003, Revision 10 or higher. CLP equipment is not required to meet the same performance and reliability standards as the Company imposes on its own equipment as defined in RNSA – NEB – 95 – 0003, Revision 10 or higher.

The CLP must comply with Company technical specifications for microwave collocation interconnection specified in NIP – 74171 and the Company's digital switch environmental requirements specified in NIP – 74165, as they relate to fire, safety, health, environmental, and network safeguards, and ensure that CLP provided equipment and installation activities do not act as a hindrance to Company services or facilities. The CLP's equipment placed in or on roof space or transmitter/receiver space must also comply with all applicable rules and regulations of the FCC and the Federal Aviation Agency (FAA).

CLP facilities shall be placed, maintained, relocated or removed in accordance with the applicable requirements and specifications of the current edition of NIP – 74171, national electric code, the national electrical safety code, rules and regulations of the OSHA, and any governing authority having jurisdiction.

All CLP microwave facilities must comply with Bellcore specifications regarding microwave and radio based transmission and equipment, CEF, BR -760-200-030, and SR -TAP-001421; and the Company's practices as they relate to fire, safety, health, environmental safeguards transmission and electrical grounding requirements, or interference with Company services or facilities.

The equipment located in, on or above the exterior walls or roof of the Company's building must either be on the Company's list of approved products or fully comply with requirements specified in GR – 63 – CORE, GR – 1089 – CORE and NIP 74171. This equipment must also comply with NIP – 74160, premise engineering environmental and transmission standards as they relate to fire, safety, health, environmental safeguards, or interference with Company service or facilities

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Original Sheet 69

LOCAL NETWORK ACCESS SERVICES

COLLOCATION SERVICE

15. MICROWAVE COLLOCATION (Cont'd)

15.4 Safety and Technical Standards (Cont'd)

Each transmitter individually and all transmitters collectively at a given location shall comply with appropriate federal, state and/or local regulations governing the safe levels of radio frequency radiation. The minimum standard to be met by the CLP in all cases is specified in ANSI C95.1 – 1982.

15.5 Placement and Removal of Facilities and Equipment

Prior to installation of the CLP's facilities or transmission equipment for microwave interconnection, the CLP must obtain at its sole cost and expense all necessary licenses, permits, approvals, and/or variances for the installation and operation of the equipment and particular microwave system, and when applicable for any towers or support structures, as may be required by authorities having jurisdiction.

The CLP is not permitted to penetrate the building exterior wall or roof when installing or maintaining transmission equipment and support structures. All building penetration will be done by the Company or a hired agent of the Company.

Any CLP's equipment used to produce or extract moisture must be connected to existing or newly constructed building or roof top drainage systems, at the expense of the CLP.

The CLP will be responsible for supplying, installing, maintaining, repairing and servicing the following microwave specific equipment: waveguide, waveguide conduit, and/or coaxial cable, the microwave antenna and any associated equipment; and the transmitter/receiver equipment and any required grounding. At the option of the Company, the antenna support structure shall be built, owned and maintained by either the Company or by the CLP.

The CLP may install equipment that has been deployed by the Company for five years or more with a proven safety record.

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Original Sheet 70

LOCAL NETWORK ACCESS SERVICES

COLLOCATION SERVICE

15. <u>MICROWAVE COLLOCATION</u> (Cont'd)

15.6 <u>Moves, Replacements or Other Modifications</u>

Where the CLP intends to nodify, move, replace or add to equipment or facilities within or about the roof space or transmitter/receiver space(s) and requires special consideration (e.g., use of freight elevators, loading dock, staging area, etc.), the CLP must request and receive written consent from the Company. Such consent will not be unreasonably withheld. The CLP shall not make any changes from initial installation in terms of the number of transmitter/receivers, type of radio equipment, power output of transmitters or any other technical parameters without the prior written approval of the Company.

15.7 Space and Facilities

Monthly rates are applicable to each microwave CLP for the space (generally on the premises roof) associated with Company or CLP owned antenna support structures. The rate is calculated using the rate per square foot, multiplied by the square footage of the foot print. When a CLP's microwave equipment (e.g. antennas) is placed on a Company owned antenna support structure shared by other users, the result is multiplied by the CLP's relative capacity ratio (RCRs), (i.e., the sum of the RCRs of each of the CLP's antennas).

Square footage for the footprint will be based on the length times width of the entire footprint formed on the horizontal plane (generally the roof top) by the antenna(s), tower(s), mount(s), guy wires and/or support structures used by the CLP. For a non-rectangular footprint, the length will be measured at the longest part of the footprint and the width will be the widest part of the footprint.

The owner of the support structure may charge CLPs proposing to use the structure, on a one-time basis, for the following costs and/or values. Any incremental costs associated with installing the user's antenna, including but not limited to, the costs of engineering studies, roof penetrations, structural attachments, support structure modification or reinforcement, zoning and building permits. A portion of the net book value of the support structure based on the RCR of the user's proposed antenna(s) to be mounted on the structure. A user's RCR represents the percent of the total capacity of the support structure used by user's antenna(s) on the structure. Spare capacity shall be deemed to be that of the owner of the structure. RCRs shall be expressed as a two place decimal number, rounded to the nearest whole percent. The sum of all user's RCRs and the owner's RCR shall at all times equal 1.00. It shall be the responsibility of the owner of the structure to provide the proposed user the net book value of the structure at the time of the proposed use. Upon request, the owner shall also provide the proposed user accounting records or other documentation supporting the net book value.

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Original Sheet 71

LOCAL NETWORK ACCESS SERVICES

COLLOCATION SERVICE

15. MICROWAVE COLLOCATION (Cont'd)

15.7 <u>Space and Facilities</u> (Cont'd)

The owner of the structure may not assess other users of the structure any charges in addition to the onetime charge described above, except that the owner of the structure may assess other user's a proportionate share of inspection costs and the Company may assess microwave CLPs monthly recurring charges for use of its roof space. At the time a CLP (including the owner) proposes to attach additional antennas to an existing support structure, it shall be the responsibility of that CLP to obtain, at their cost and expense, an engineering analysis by a registered structural engineer to determine the relative capacity ratio of all antennas on the structure, including the proposed antennas.

When a CLP is the owner of the structure, the proposed user shall pay the owner directly the one-time charge as set forth above. When the Company is the owner of the support structure, it shall determine the charge on an individual case basis. In the event that a CLP who owns the support structure fails to comply with these provisions, at the Company's option, ownership of the support structure shall transfer to the Company upon a thirty (30) calendar day written notice.

Additional costs incurred by the Company to conduct a review for wind or ice loadings (etc.) for antennas over 18 inches in diameter, or for any multiple antenna installation, and any changes which may be required thereto in order to insure that such loadings meet generally accepted engineering criteria for radio tower structures, will be billed to the CLP.

15.8 Emergency Power and/or Environmental Support

In the event special work must be done by the Company to provide emergency power or environmental support to the transmitter/receiver equipment or antenna, the CLP will be billed on a time and materials basis for the costs incurred.

15.9 <u>Escorting</u>

When a CLP is escorted by a qualified Company employee for access to the roof space, transmitter/receiver space, or cable risers and racking for maintenance, the labor charges as set forth in Section 14, Rates will apply.

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