6668.75		.....	6828.75	
6671.25		.....	6831.25	
6673.75		.....	6833.75	
6676.25		.....	6836.25	
6678.75		.....	6838.75	
6681.25		.....	6841.25	
6683.75		.....	6843.75	
6686.25		.....	6846.25	
6688.75		.....	6848.75	
6691.25		.....	6851.25	
6693.75		.....	6853.75	
6696.25		.....	6856.25	
6698.75		.....	6858.75	
6701.25		.....	6861.25	
6703.75		.....	6863.75	
6706.25		.....	6866.25	
6708.75	1	.....	6711.25	1

1 - These frequencies may be assigned for unpaired use.

(5) 3.75 MHz bandwidth channels:

Transmit (receive) (MHz)			Receive (transmit) (MHz)	
6545.625	1	.....	6715.625	1
6550.625		.....	6730.625	
6555.625	1	.....	6725.625	1
6560.625		.....	6740.625	
6565.625		.....	6735.625	
6585.625		.....	6745.625	
6590.625		.....	6750.625	
6595.625		.....	6755.625	
6600.625		.....	6760.625	
6605.625		.....	6765.625	
6610.625		.....	6770.625	
6615.625		.....	6775.625	
6620.625		.....	6780.625	
6625.625		.....	6785.625	
6630.625		.....	6790.625	
6635.625		.....	6795.625	
6640.625		.....	6800.625	
6645.625		.....	6805.625	
6650.625		.....	6810.625	
6655.625		.....	6815.625	
6660.625		.....	6820.625	
6665.625		.....	6825.625	
6670.625		.....	6830.625	
6675.625		.....	6835.625	
6680.625		.....	6840.625	
6685.625		.....	6845.625	
6690.625		.....	6850.625	

6695.625		.....	6855.625	
6700.625		.....	6860.625	
6705.625		.....	6865.625	
6710.625	1	.....	6720.625	1

1 - These frequencies may be assigned for unpaired use.

(6) 5 MHz bandwidth channels:

Transmit (receive) (MHz)			Receive (transmit) (MHz)	
6545	1	.....	6715	1
6550		.....	6730	
6555	1	.....	6725	1
6560		.....	6740	
6565		.....	6735	
6585		.....	6745	
6590		.....	6750	
6595		.....	6755	
6600		.....	6760	
6605		.....	6765	
6610		.....	6770	
6615		.....	6775	
6620		.....	6780	
6625		.....	6785	
6630		.....	6790	
6635		.....	6795	
6640		.....	6800	
6645		.....	6805	
6650		.....	6810	
6655		.....	6815	
6660		.....	6820	
6665		.....	6825	
6670		.....	6830	
6675		.....	6835	
6680		.....	6840	
6685		.....	6845	
6690		.....	6850	
6695		.....	6855	
6700		.....	6860	
6705		.....	6865	
6710	1	.....	6720	1

1 - These frequencies may be assigned for unpaired use.

(7) 10 MHz bandwidth channels:

Transmit (receive) (MHz)			Receive (transmit) (MHz)	
6545	1	.....	6715	1
6555	1	.....	6725	1
6565		.....	6735	
6585		.....	6745	
6595		.....	6755	
6605		.....	6765	
6615		.....	6775	
6625		.....	6785	
6635		.....	6795	
6645		.....	6805	
6655		.....	6815	
6665		.....	6825	
6675		.....	6835	
6685		.....	6845	
6695		.....	6855	
6705		.....	6865	
6535	2	.....	6575	2

1 - These frequencies may be assigned for unpaired use.
2 - Available only for emergency restoration, maintenance bypass, or other temporary-fixed purposes. Such uses are authorized on a non-interference basis to other frequencies in this band. Interference analysis required by Section 94.63 does not apply to this frequency pair.

(j) 10,550 to 10,680 MHz. 5 MHz authorized bandwidth.

(1) 400 kHz bandwidth channels:

Transmit (receive) (MHz)		Receive (transmit) (MHz)
10605.225	.....	10670.225
10605.625	.....	10670.625
10606.050	.....	10671.050
10606.450	.....	10671.450
10606.875	.....	10671.875
10607.275	.....	10672.275
10607.725	.....	10672.725
10608.125	.....	10673.125
10608.550	.....	10673.550
10608.950	.....	10673.950
10609.375	.....	10674.375
10609.775	.....	10674.775
10610.225	.....	10675.225
10610.625	.....	10675.625
10611.050	.....	10676.050

10611.450	10676.450
10611.875	10676.875
10612.275	10677.275
10612.725	10677.725
10613.125	10678.125
10613.550	10678.550
10613.950	10678.950
10614.375	10679.375
10614.775	10679.775

(2) 800 kHz bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
10605.425	10670.425
10606.250	10671.250
10607.075	10672.075
10607.925	10672.925
10608.750	10673.750
10609.575	10674.575
10610.425	10675.425
10611.250	10676.250
10612.075	10677.075
10612.925	10677.925
10613.750	10678.750
10614.575	10679.575

(3) 1.25 MHz bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
10550.625	10615.625
10551.875	10616.875
10553.125	10618.125
10554.375	10619.375
10555.625	10620.625
10556.875	10621.875
10558.125	10623.125
10559.375	10624.375
10560.625	10625.625
10561.875	10626.875
10563.125	10628.125
10564.375	10629.375
10565.625	10630.625
10566.875	10631.875
10568.125	10633.125
10569.375	10634.375
10570.625	10635.625

10571.875	.....	10636.875
10573.125	.....	10638.125
10574.375	.....	10639.375
10575.625	.....	10640.625
10576.875	.....	10641.875
10578.125	.....	10643.125
10579.375	.....	10644.375
10580.625	.....	10645.625
10581.875	.....	10646.875
10583.125	.....	10648.125
10584.375	.....	10649.375
10585.625	.....	10650.625
10586.875	.....	10651.875
10588.125	.....	10653.125
10589.375	.....	10654.375
10590.625	.....	10655.625
10591.875	.....	10656.875
10593.125	.....	10658.125
10594.375	.....	10659.375
10595.625	.....	10660.625
10596.875	.....	10661.875
10598.125	.....	10663.125
10599.375	.....	10664.375
10600.625	.....	10665.625
10601.875	.....	10666.875
10603.125	.....	10668.125
10604.375	.....	10669.375
10605.625	.....	10670.625
10606.875	.....	10671.875
10608.125	.....	10673.125
10609.375	.....	10674.375
10610.625	.....	10675.625
10611.875	.....	10676.875
10613.125	.....	10678.125
10614.375	.....	10679.375

(4) 2.5 MHz bandwidth channels:

Transmit (receive) (MHz)		Receive (transmit) (MHz)
10551.25	.....	10616.25
10553.75	.....	10618.75
10556.25	.....	10621.25
10558.75	.....	10623.75
10561.25	.....	10626.25
10563.75	.....	10628.75
10566.25	.....	10631.25
10568.75	.....	10633.75
10571.25	.....	10636.25
10573.75	.....	10638.75
10576.25	.....	10641.25

10578.75	.....	10643.75	
10581.25	1.....	10646.25	1
10583.75	1.....	10648.75	1
10586.25	1.....	10651.25	1
10588.75	1.....	10653.75	1
10591.25	1.....	10656.25	1
10593.75	1.....	10658.75	1
10596.25	1.....	10661.25	1
10598.75	1.....	10663.75	1
10601.25	.....	10666.25	
10603.75	.....	10668.75	
10606.25	1.....	10671.25	1
10608.75	.....	10673.75	
10611.25	1.....	10676.25	1
10613.75	.....	10678.75	

1 These frequencies are also available for DTS stations licensed, in operation, or applied for prior to July 15. 1993.

(5) 3.75 MHz bandwidth channels:

Transmit (receive) (MHz)		Receive (transmit) (MHz)
10553.125	.....	10618.125
10558.125	.....	10623.125
10563.125	.....	10628.125
10568.125	.....	10633.125
10573.125	.....	10638.125
10578.125	.....	10643.125
10583.125	.....	10648.125
10588.125	.....	10653.125
10593.125	.....	10658.125
10598.125	.....	10663.125
10603.125	.....	10668.125

(6) 5 MHz bandwidth channels:

Transmit (receive) (MHz)		Receive (transmit) (MHz)
10552.5	.....	10617.5
10557.5	.....	10622.5
10562.5	.....	10627.5
10567.5	.....	10632.5
10572.5	.....	10637.5
10577.5	.....	10642.5
10582.5	.....	10647.5
10587.5	.....	10652.5
10592.5	.....	10657.5
10597.5	.....	10662.5

10602.5 ..... 10667.5

(k) 10,700 to 11,700 MHz. 40 MHz authorized bandwidth.

(1) 1.25 MHz bandwidth channels:

Transmit (receive) (MHz)		Receive (transmit) (MHz)
11130.625	.....	11620.625
11131.875	.....	11621.875
11133.125	.....	11623.125
11134.375	.....	11624.375
11135.625	.....	11625.625
11136.875	.....	11626.875
11138.125	.....	11628.125
11139.375	.....	11629.375
11140.625	.....	11630.625
11141.875	.....	11631.875
11143.125	.....	11633.125
11144.375	.....	11634.375
11145.625	.....	11635.625
11146.875	.....	11636.875
11148.125	.....	11638.125
11149.375	.....	11639.375
11150.625	.....	11640.625
11151.875	.....	11641.875
11153.125	.....	11643.125
11154.375	.....	11644.375
11155.625	.....	11645.625
11156.875	.....	11646.875
11158.125	.....	11648.125
11159.375	.....	11649.375
11160.625	.....	11650.625
11161.875	.....	11651.875
11163.125	.....	11653.125
11164.375	.....	11654.375
11165.625	.....	11655.625
11166.875	.....	11656.875
11168.125	.....	11658.125
11169.375	.....	11659.375
11170.625	.....	11660.625
11171.875	.....	11661.875
11173.125	.....	11663.125
11174.375	.....	11664.375
11175.625	.....	11665.625
11176.875	.....	11666.875
11178.125	.....	11668.125
11179.375	.....	11669.375
11180.625	.....	11680.625
11181.875	.....	11681.875
11183.125	.....	11683.125
11184.375	.....	11684.375

11185.625	.....	11685.625
11186.875	.....	11686.875
11188.125	.....	11688.125
11189.375	.....	11689.375
11190.625	.....	11690.625
11191.875	.....	11691.875
11193.125	.....	11693.125
11194.375	.....	11694.375
11195.625	.....	11695.625
11196.875	.....	11696.875
11198.125	.....	11698.125
11199.375	.....	11699.375

(2) 2.5 MHz bandwidth channels:

Transmit (receive) (MHz)		Receive (transmit) (MHz)
11131.25	.....	11621.25
11133.75	.....	11623.75
11136.25	.....	11626.25
11138.75	.....	11628.75
11141.25	.....	11631.25
11143.75	.....	11633.75
11146.25	.....	11636.25
11148.75	.....	11638.75
11151.25	.....	11641.25
11153.75	.....	11643.75
11156.25	.....	11646.25
11158.75	.....	11648.75
11161.25	.....	11651.25
11163.75	.....	11653.75
11166.25	.....	11656.25
11168.75	.....	11658.75
11171.25	.....	11661.25
11173.75	.....	11663.75
11176.25	.....	11666.25
11178.75	.....	11668.75
11181.25	.....	11681.25
11183.75	.....	11683.75
11186.25	.....	11686.25
11188.75	.....	11688.75
11191.25	.....	11691.25
11193.75	.....	11693.75
11196.25	.....	11696.25
11198.75	.....	11698.75

(3) 3.75 MHz bandwidth channels:

Transmit (receive) (MHz)		Receive (transmit) (MHz)
11133.125	.....	11623.125
11138.125	.....	11628.125
11143.125	.....	11633.125
11148.125	.....	11638.125
11153.125	.....	11643.125
11158.125	.....	11648.125
11163.125	.....	11653.125
11168.125	.....	11658.125
11173.125	.....	11663.125
11178.125	.....	11668.125
11183.125	.....	11683.125
11188.125	.....	11688.125
11193.125	.....	11693.125
11198.125	.....	11698.125

(4) 5 MHz bandwidth channels:

Transmit (receive) (MHz)		Receive (transmit) (MHz)
11132.5	.....	11622.5
11137.5	.....	11627.5
11142.5	.....	11632.5
11147.5	.....	11637.5
11152.5	.....	11642.5
11157.5	.....	11647.5
11162.5	.....	11652.5
11167.5	.....	11657.5
11172.5	.....	11662.5
11177.5	.....	11667.5
11182.5	.....	11682.5
11187.5	.....	11687.5
11192.5	.....	11692.5
11197.5	.....	11697.5

(5) 10 MHz bandwidth channels:

Transmit (receive) (MHz)		Receive (transmit) (MHz)
10705	.....	11205
10715	.....	11215
10725 2	.....	11675 1
10735	.....	11225
10745	.....	11235

10755		.....	11245	
10765		.....	11255	
10775		.....	11265	
10785		.....	11275	
10795		.....	11285	
10805		.....	11295	
10815		.....	11305	
10825		.....	11315	
10835		.....	11325	
10845		.....	11335	
10855		.....	11345	
10865		.....	11355	
10875		.....	11365	
10885		.....	11375	
10895		.....	11385	
10905		.....	11395	
10915		.....	11405	
10925		.....	11415	
10935		.....	11425	
10945		.....	11435	
10955		.....	11445	
10965		.....	11455	
10975		.....	11465	
10985		.....	11475	
10995		.....	11485	
11005		.....	11495	
11015		.....	11505	
11025		.....	11515	
11035		.....	11525	
11045		.....	11535	
11055		.....	11545	
11065		.....	11555	
11075		.....	11565	
11085		.....	11575	
11095		.....	11585	
11105		.....	11595	
11115		.....	11605	
11125		.....	11615	
11135	1	.....	11625	2
11145	1	.....	11635	1
11155	1	.....	11645	1
11165	1	.....	11655	1
11175	1	.....	11665	1
11185	1	.....	11685	1
11195	1	.....	11695	1

1 Alternate channels. These channels are set aside for narrow bandwidth systems and should be used only if all other channels are blocked.
2 These frequencies may be assigned for unpaired use.

(6) 30 MHz bandwidth channels:

Transmit (receive) (MHz)		Receive (transmit) (MHz)	
10715		11215	
10755		11245	
10795		11285	
10835		11325	
10875		11365	
10915		11405	
10955		11445	
10995		11485	
11035		11525	
11075		11565	
11115		11605	
11155	1	11645	1
11185	1	11685	1

1 Alternate channels. These channels are set aside for narrow bandwidth systems and should be used only if all other channels are blocked.

(7) 40 MHz bandwidth channels:

Transmit (receive) (MHz)		Receive (transmit) (MHz)	
10735		11225	
10775		11265	
10815		11305	
10855		11345	
10895		11385	
10935		11425	
10975		11465	
11015		11505	
11055		11545	
11095		11585	
11135	1	11625	1
11175	1	11665	1

1 Alternate channels. These channels are set aside for narrow bandwidth systems and should be used only if all other channels are blocked.

(l) * * * (formerly (h))

(m)(1)-(7) * * * (formerly (j)(1)-(7))

(m)(8) The following frequencies are available for point-to-multipoint systems, except that systems licensed, in operation, or applied for in the 10,565-10,615 and 10,630-10,680 MHz bands

prior to July 15, 1993 are permitted to use frequencies in those bands if they prior coordinate with 10 GHz point-to-point licensees:

* * * * *

(n) * * * (formerly (k))

(o) * * * (formerly (l))

(p) * * * (formerly (m))

(q) Fixed systems licensed, in operation, or applied for in the 6525-6875 and 10,550-10,680 MHz bands prior to July 15, 1993 are permitted to use channel plans in effect prior to that date, including adding channels under those plans.

(r) Frequency diversity transmission will not be authorized in this service in the absence of a factual showing that the required communications cannot practically be achieved by other means. Where frequency diversity is deemed to be justified on a protection channel basis, it shall be limited to one protection channel for the bands 3700-4200, 5925-6425, and 6525-6875 MHz, and a ratio of one protection channel for three working channels for the bands 10,550-10,680 and 10,700-11,700 MHz. In the bands 3700-4200, 5925-6425, and 6525-6875 MHz, no frequency diversity protection channel will be authorized unless there is a minimum of three working channels, except that where a substantial showing is made that a total of three working channels will be required within three years, a protection channel may be authorized simultaneously with the first working channel. A protection channel authorized under such exception will be subject to termination if applications for the third working channel are not filed within three years of the grant date of the applications for the first working channel. Where equipment employing digital modulation techniques with cross-polarized operation on the same frequency is used, the protection channel authorized under the above conditions may be considered to consist of both polarizations of the protection frequency where such is shown to be necessary.

Section 94.71 Emission and bandwidth limitations.

* * * * *

(b) The maximum bandwidth that will be authorized per frequency is set out in the table that follows. Regardless of the maximum authorized bandwidth specified for each frequency band, the Commission reserves the right to issue a license for less than the maximum bandwidth if it appears that a lesser bandwidth would be sufficient to support an applicant's intended communications.

Frequency Band (MHz)	Maximum authorized bandwidth
928-929	12.5, 25 kHz 1 6
932-932.5, 941-941.5	12.5 kHz 1
932.5-935, 941.5-944	12.5, 25, 50, 100, 200kHz 1
952-960	12.5, 25, 50, 100, 200 kHz 1 5
1850-1990	5 or 10 MHz 1
2130-2150	800 or 1600 kHz 1
2150-2160	10 MHz
2180-2200	800 or 1600 kHz 1
2450-2483.5	625 kHz 2
2483.5-2500	800 kHz
3700-4200	20 MHz
5925-6425	30 MHz
6425-6525	25 MHz
6525-6875	10 MHz
10,550-10,680	5 MHz
10,700-11,700	40 MHz
12,200-12,700	10 or 20 MHz 1
13,200-13,250	25 MHz
17,700-18,140	80 MHz
18,140-18,142	2 MHz
18,142-18,580	6 MHz
18,580-18,820	20 MHz
18,820-18,920	10 MHz
18,920-19,160	20 MHz
19,160-19,260	10 MHz
19,260-19,700	80 MHz
21,200-23,600	up to 100 MHz 4
31,000-31,300	25 or 50 MHz
38,600-40,000	up to 50 MHz
Bands above 40,000 3	

* * * * *

Section 94.73 Power limitations.

(a) On any authorized frequency, the average power delivered to an antenna in this service shall be the minimum amount of power necessary to carry out the communications desired. Application of this principle shall include, but not be limited to, requiring a licensee who replaces one or more of his antennas with larger antennas to reduce his antenna input power by an amount appropriate to compensate for the increased primary lobe gain of the replacement antenna(s). In no event shall the average equivalent isotropically radiated power (EIRP), as referenced to an isotropic radiator, exceed the values specified below. Further, the output power of a transmitter on any authorized frequency in this service shall not exceed the following:

Frequency Band (MHz)	Maximum allowable transmitter power		Maximum allowable EIRP(1)	
	Fixed(W)	Mobile(W)	Fixed(dBW)	Mobile(dBW)
928 to 929	5.0		+17	
932 to 932.5			+17	
932.5 to 935	20.0		+40	
941 to 941.5			+30	
941.5 to 944	20.0		+40	
952 to 960	(6)20.0		(2)+40	
1850 to 1990	20.0		+45	
2130 to 2150	20.0		+45	
2150 to 2160	20.0		(2)+45	
2180 to 2200	20.0		+45	
2450 to 2500	20.0		+45	
3700 to 4200	20.0		+50	
5925 to 6425	20.0		+55	
6425 to 6525		20.0		+35
6525 to 6875	20.0		+50	
10,550 to 10,680	(4)10.0		+50	
10,700 to 11,700	10.0		+50	
12,200 to 12,700(7)	10.0		+50	
12,700 to 13,250	10.0		(3)+50	
17,700 to 18,600	10.0		+55	
18,600 to 18,800	(5)10.0		+35	
18,800 to 19,700	10.0		+55	
21,200 to 23,600(7)	10.0		+40	
31,000 to 31,300	0.05	0.05		
38,600 to 40,000	10.0		+40	

1 Peak envelope power shall not exceed five times the average power.
2 For multiple address operations, see Section 94.65(a)(1)(v). When an omnidirectional antenna is authorized in the 2150-2160 MHz band, the maximum power shall be 60 dBm.
3 Also, see Section 94.77.
4 The output power of a Digital Termination System nodal transmitter shall not exceed 0.5 watts per 250 kHz. The output power of a Digital Termination system user transmitter shall not exceed 0.04 watts per 250 kHz. The transmitter power in terms of the watts specified is the peak envelope power of the emission measured at the associated antenna input port. The operating power shall not exceed the authorized power by more than 10 percent of the authorized power in watts at any time.
5 Maximum power delivered to antenna shall not exceed -3 dBW.
6 Remote alarm units that are part of a multiple address central station protection system are authorized a maximum of 2 watts.
7 Also, see Sections 94.90 and 94.91.

* * * * *

Section 94.75 Antenna Limitations.

* * * * *

(b) Directional antennas shall meet the performance standards (for parallel polarization) indicated in the following table:

Antenna Standards

Frequency(MHz)	Category	Maximum beam-width to 3 dB points (included angle in degrees)	Minimum antenna gain (dBi)	Minimum radiation suppression to angle in degrees from centerline of main beam in decibels						
				5° to 10°	10° to 15°	15° to 20°	20° to 30°	30° to 100°	100° to 140°	140° to 180°
932.5 to 935	A	14.0	n/a		6	11	14	17	20	24
941.5 to 944	B	20.0	n/a			6	10	13	15	20
952 to 960 (1) (4)	A	14.0	n/a		6	11	14	17	20	24
	B	20.0	n/a			6	10	13	15	20
1,850 to 2,500 (2)	A	5.0	n/a	12	18	22	25	29	33	39
	B	8.0	n/a	5	18	20	20	25	28	36
3,700 to 4,200	A	n/a	36	23	29	33	36	42	55	55
	B	n/a	36	20	24	28	32	32	32	32
5,925 to 6,875 (10)	A	n/a	38	25	29	33	36	42	55	55
	B	n/a	38	20	24	28	32	35	36	36
6,525 to 6,875 (11)	A	1.5	n/a	26	29	32	34	38	41	49
	B	2.0	n/a	21	25	29	32	35	39	45
10,550 to 10,680 (3)	A	3.4	34	20	24	28	32	35	55	55
(9)	B	3.4	34	20	24	28	32	35	35	39
10,565 to 10,615 (3) (12)	n/a	360	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
10,630 to 10,680 (3) (12)	n/a	n/a	34	20	24	28	32	35	36	36
10,700 to 11,700 (10)	A	n/a	38	25	29	33	36	42	55	55
	B	n/a	38	20	24	28	32	35	36	36
12,200 to 13,250 (6)	A	1.0	n/a	23	28	35	39	41	42	50
	B	2.0	n/a	20	25	28	30	32	37	47
17,700 to 19,700 (3)	A	n/a	38	25	29	33	36	42	55	55
	B	n/a	38	20	24	28	32	35	36	36
21,200 to 23,600 (5)	A	n/a	38	25	29	33	36	42	55	55
	B	n/a	38	20	24	28	32	35	36	36
31,000 to 31,300 (7) (8)	n/a	4.0	38	n/a	n/a	n/a	n/a	n/a	n/a	n/a
38,600 to 40,000	A	n/a	38	25	29	33	36	42	55	55
	B	n/a	38	20	24	28	32	35	36	36

Footnotes (1) to (9) * * *
(10) These antenna standards apply to all point-to-point stations authorized after June 1, 1997. Existing licensees and pending applicants on that date are grandfathered and need not comply with these standards.
(11) These antenna standards apply to all point-to-point stations authorized on or before June 1, 1997.
(12) These antenna standards apply only to Digital Termination User Stations licensed, in operation, or applied for prior to July 15, 1993.

* * * * *

Section 94.77 Interference to geostationary-satellites.

These limitations are necessary to minimize the probability of harmful interference to reception in the bands 2655-2690 MHz, 5925-6875 MHz, and 12.7-12.75 GHz on board geostationary-space stations in the fixed-satellite service (Part 25). Stations authorized in the band 2655-2690 MHz prior to July 1, 1976 that exceed the power levels in paragraphs (a) and (b) of this section are permitted to operate indefinitely, provided that the operation of such stations does not result in harmful interference to reception in this band on board geostationary space stations.

(a) 2655 to 2690 MHz and 5925 to 6875 MHz. * * *

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Section 94.79 Minimum path lengths for fixed links.

(a) The distance between end points of a fixed link must equal or exceed the value set forth in the table below or the EIRP must be reduced in accordance with the equation set forth below.

Frequency Band (MHz)	Minimum path length (km)
Below 1,850	n/a
1,850 to 7,125	17
10,550 to 13,250	5
Above 17,700	n/a

(b) For paths shorter than those specified in the Table, the EIRP shall not exceed the value derived from the following equation.

EIRP = 30 - 20 log[A/B], dBW

Where:

EIRP = Equivalent isotropic radiated power in dBW.
A = Minimum path length from the Table for the frequency band in kilometers.
B= The actual path length in kilometers.

NOTE: Automatic transmit power control may be used to meet this requirement pursuant to Section 94.45.

(c) Upon an appropriate technical showing, applicants and licensees unable to meet the minimum path length requirement may be granted an exception to these requirements.

NOTE. Links authorized prior to April 1, 1987 need not comply with this requirement.

Section 94.81 Authorization of microwave equipment.

* * * * *

(c) After July 15, 1994, the manufacture (except for export) or importation of equipment employing digital modulation techniques in the 3700-4200, 5925-6425, 6525-6875, 10,550-10,680, and 10,700-11,700 MHz bands must meet the minimum payload capacity requirements of Section 21.122(a)(3).

Section 94.94 Microwave digital modulation.

Microwave transmitters employing digital modulation techniques in the 17,700-19,700 MHz band shall transmit at a bit rate, in bits per second (bps), equal to or greater than the authorized bandwidth in Hertz (e.g., to be acceptable, equipment transmitting at a 20 Mbps rate must not require an authorized bandwidth greater than 20 MHz). This bps/Hz standard is independent of the antenna (polarization) used, frequency reuse, or how the system is configured. For equipment applied for, authorized, and placed in service after June 1, 1997 in the 3700-4200, 5925-6425, 6525-6875, 10,550-10,680, and 10,700-11,700 MHz bands, standards of Section 21.122(a)(3) shall be met.

NOTE: Systems authorized in the 17,700-19,700 MHz band prior to December 1, 1988 may install equipment with no minimum bit rate.

Appendix B -- Commenting Parties to the Further Notice

Comments

Alcatel Network Systems, Inc.
American Personal Communications
American Petroleum Institute
American Telephone and Telegraph Company
Associated PCN Company and Associated Communications of Los Angeles
Association of American Railroads
Bell Atlantic Companies
Comsearch
EMI Communications Corporation
GE American Communications, Inc.
GTE Service Corporation
Harris Corporation - Farinon Division, Digital Microwave Corporation, and Telesciences, Inc.
Home Box Office
Hughes Communications Galaxy, Inc.
Lower Colorado River Authority
MCI Telecommunications Corporation
Motorola Inc.
MRC Telecommunications, Inc.
National Association of Broadcasters
National Public Radio, Inc.
National Spectrum Managers Association, Inc.
Northern Telecom
Pacific Telesis Group
Public Broadcasting Service
Satellite Broadcasting And Communications Association
SR Telecom, Inc.
Telecommunications Industry Association, Fixed Point-to-Point Communications Section
United States Telephone Association
Utilities Telecommunications Council
Western Tele-Communications, Inc.

Reply Comments or Supplemental Comments

Alcatel Network Systems, Inc.
American Petroleum Institute
Association of American Railroads
Bell Atlantic Companies
Comsearch
Digital Microwave Corporation
EMI Communications Corporation
GE American Communications, Inc.
GTE Service Corporation
Home Box Office
Hughes Communications Galaxy, Inc.
Lower Colorado River Authority
McCaw Cellular Communications, Inc.
MCI Telecommunications Corporation
Microwave Networks Incorporated
National Public Radio, Inc.
National Spectrum Managers Association, Inc.
The New Orleans Teleport
Pacific Telesis Group
Satellite Broadcasting And Communications Association
Telecommunications Industry Association,
 Fixed Point-to-Point Communications Section
Telesciences, Inc., Harris Corporation-Farinon Division, and
 Digital Microwave Corporation
US West
Utilities Telecommunications Council
Western Multiplex Corporation, Burlington Northern Railroad, and
 Colorado Interstate Gas Company
Western Tele-Communications, Inc.