(receive) (MHz)	(transmit) (MHz)
6111.364	6363.404
6116.305	6368.345
6121.247	6373.287
6126.189	6378.229
6131.130	6383.170
6136.072	6388.112
6141.014	6393.054
6145.955	6397.995
6150.897	6402.937
6155.839	6407.879
6160.780	6412.820
6165.722	6417.762
6175.000 /1/	n/a

/1/ This frequency may be assigned for unpaired use.

(6) 5 MHz bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
6110.75	6362.79
6115.69	6367.73
6120.63	6372.67
6125.57	6377.61
6130.51	6382.55
6135.45	6387.49
6140.40	6392.44
6145.34	6397.38
6150.28	6402.32
6155.22	6407.26
6160.16	6412.20
6165.10	6417.14

(7) 10 MHz bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
5935.32	6187.36
5945.20	6197.24
5955.08	6207.12
5964.97	6217.01
5974.85	6226.89
5984.73	6236.77

5994.62	.....	6246.66
6004.50	.....	6256.54
6014.38	.....	6266.42
6024.27	.....	6276.31
6034.15	.....	6286.19
6044.03	.....	6296.07
6053.92	.....	6305.96
6063.80	.....	6315.84
6073.68	.....	6325.72
6083.57	.....	6335.61
6093.45	.....	6345.49
6103.33	.....	6355.37
6113.22 /1/	.....	6365.26 /1/
6123.10 /1/	.....	6375.14 /1/
6132.98 /1/	.....	6385.02 /1/
6142.87 /1/	.....	6394.91 /1/
6152.75 /1/	.....	6404.79 /1/
6162.63 /1/	.....	6414.67 /1/

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

(8) 30 MHz bandwidth channels:

Transmit (receive) (MHz)		Receive (transmit) (MHz)
5945.20	.....	6197.24
5974.85	.....	6226.89
6004.50	.....	6256.54
6034.15	.....	6286.19
6063.80	.....	6315.84
6093.45	.....	6345.49
6123.10 /1/	.....	6375.14 /1/
6152.75 /1/	.....	6404.79 /1/

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

(f) 6.525 to 6.875 MHz. 10 MHz authorized bandwidth.

(1) 400 kHz bandwidth channels

Transmit (receive) (MHz)		Receive (transmit) (MHz)
6525.225	.....	6870.225
6525.625	.....	6870.625

6526.050	.....	6871.050
6526.450	.....	6871.450
6526.875	.....	6871.875
6527.275	.....	6872.275
6527.725	.....	6872.725
6528.125	.....	6873.125
6528.550	.....	6873.550
6528.950	.....	6873.950
6529.375	.....	6874.375
6529.775	.....	6874.775

(2) 800 kHz bandwidth channels:

Transmit (receive) (MHz)		Receive (transmit) (MHz)
6525.425	.....	6870.425
6526.250	.....	6871.250
6527.075	.....	6872.075
6527.925	.....	6872.925
6528.750	.....	6873.750
6529.575	.....	6874.575

(3) 1.25 MHz bandwidth channels:

Transmit (receive) (MHz)		Receive (transmit) (MHz)
6525.625	.....	6870.625
6526.875	.....	6871.875
6528.125	.....	6873.125
6529.375	.....	6874.375
6540.625 /1/	.....	6718.125 /1/
6541.875 /1/	.....	6719.375 /1/
6543.125 /1/	.....	6713.125 /1/
6544.375 /1/	.....	6714.375 /1/
6545.625 /1/	.....	6715.625 /1/
6546.875 /1/	.....	6716.875 /1/
6548.125	.....	6728.125
6549.375	.....	6729.375
6550.625	.....	6730.625
6551.875	.....	6731.875
6553.125 /1/	.....	6723.125 /1/
6554.375 /1/	.....	6724.375 /1/
6555.625 /1/	.....	6725.625 /1/
6556.875 /1/	.....	6726.875 /1/
6558.125	.....	6738.125
6559.375	.....	6739.375

6560.625 ..... 6740.625
6561.875 ..... 6741.875
6563.125 ..... 6733.125
6564.375 ..... 6734.375
6565.625 ..... 6735.625
6566.875 ..... 6736.875
6568.125 /1/ .....6720.625 /1/
6569.375 /1/ .....6721.875 /1/
6580.625 /1/ .....6868.125 /1/
6581.875 /1/ .....6869.375 /1/
6583.125 ..... 6743.125
6584.375 ..... 6744.375
6585.625 ..... 6745.625
6586.875 ..... 6746.875
6588.125 ..... 6748.125
6589.375 ..... 6749.375
6590.625 ..... 6750.625
6591.875 ..... 6751.875
6593.125 ..... 6753.125
6594.375 ..... 6754.375
6595.625 ..... 6755.625
6596.875 ..... 6756.875
6598.125 ..... 6758.125
6599.375 ..... 6759.375
6600.625 ..... 6760.625
6601.875 ..... 6761.875
6603.125 ..... 6763.125
6604.375 ..... 6764.375
6605.625 ..... 6765.625
6606.875 ..... 6766.875
6608.125 ..... 6768.125
6609.375 ..... 6769.375
6610.625 ..... 6770.625
6611.875 ..... 6771.875
6613.125 ..... 6773.125
6614.375 ..... 6774.375
6615.625 ..... 6775.625
6616.875 ..... 6776.875
6618.125 ..... 6778.125
6619.375 ..... 6779.375
6620.625 ..... 6780.625
6621.875 ..... 6781.875
6623.125 ..... 6783.125
6624.375 ..... 6784.375
6625.625 ..... 6785.625
6626.875 ..... 6786.875
6628.125 ..... 6788.125
6629.375 ..... 6789.375
6630.625 ..... 6790.625
6631.875 ..... 6791.875
6633.125 ..... 6793.125
6634.375 ..... 6794.375

6635.625 ..... 6795.625
6636.875 ..... 6796.875
6638.125 ..... 6798.125
6639.375 ..... 6799.375
6640.625 ..... 6800.625
6641.875 ..... 6801.875
6643.125 ..... 6803.125
6644.375 ..... 6804.375
6645.625 ..... 6805.625
6646.875 ..... 6806.875
6648.125 ..... 6808.125
6649.375 ..... 6809.375
6650.625 ..... 6810.625
6651.875 ..... 6811.875
6653.125 ..... 6813.125
6654.375 ..... 6814.375
6655.625 ..... 6815.625
6656.875 ..... 6816.875
6658.125 ..... 6818.125
6659.375 ..... 6819.375
6660.625 ..... 6820.625
6661.875 ..... 6821.875
6663.125 ..... 6823.125
6664.375 ..... 6824.375
6665.625 ..... 6825.625
6666.875 ..... 6826.875
6668.125 ..... 6828.125
6669.375 ..... 6829.375
6670.625 ..... 6830.625
6671.875 ..... 6831.875
6673.125 ..... 6833.125
6674.375 ..... 6834.375
6675.625 ..... 6835.625
6676.875 ..... 6836.875
6678.125 ..... 6838.125
6679.375 ..... 6839.375
6680.625 ..... 6840.625
6681.875 ..... 6841.875
6683.125 ..... 6843.125
6684.375 ..... 6844.375
6685.625 ..... 6845.625
6686.875 ..... 6846.875
6688.125 ..... 6848.125
6689.375 ..... 6849.375
6690.625 ..... 6850.625
6691.875 ..... 6851.875
6693.125 ..... 6853.125
6694.375 ..... 6854.375
6695.625 ..... 6855.625
6696.875 ..... 6856.875
6698.125 ..... 6858.125
6699.375 ..... 6859.375

6700.625	.....	6860.625
6701.875	.....	6861.875
6703.125	.....	6863.125
6704.375	.....	6864.375
6705.625	.....	6865.625
6706.875	.....	6866.875
6708.125 /1/	.....	6710.625 /1/
6709.375 /1/	.....	6711.875 /1/

/1/ These frequencies may be assigned for unpaired use.

(4) 2.5 MHz bandwidth channels:

Transmit (receive) (MHz)		Receive (transmit) (MHz)
6526.25	.....	6871.25
6528.75	.....	6873.75
6541.25 /1/	.....	6718.75 /1/
6543.75 /1/	.....	6713.75 /1/
6546.25 /1/	.....	6716.25 /1/
6548.75	.....	6728.75
6551.25	.....	6731.25
6553.75 /1/	.....	6723.75 /1/
6556.25 /1/	.....	6726.25 /1/
6558.75	.....	6738.75
6561.25	.....	6741.25
6563.75	.....	6733.75
6566.25	.....	6736.25
6568.75 /1/	.....	6721.25 /1/
6581.25 /1/	.....	6868.75 /1/
6583.75	.....	6743.75
6586.25	.....	6746.25
6588.75	.....	6748.75
6591.25	.....	6751.25
6593.75	.....	6753.75
6596.25	.....	6756.25
6598.75	.....	6758.75
6601.25	.....	6761.25
6603.75	.....	6763.75
6606.25	.....	6766.25
6608.75	.....	6768.75
6611.25	.....	6771.25
6613.75	.....	6773.75
6616.25	.....	6776.25
6618.75	.....	6778.75

6621.25	.....	6781.25
6623.75	.....	6783.75
6626.25	.....	6786.25
6628.75	.....	6788.75
6631.25	.....	6791.25
6633.75	.....	6793.75
6636.25	.....	6796.25
6638.75	.....	6798.75
6641.25	.....	6801.25
6643.75	.....	6803.75
6646.25	.....	6806.25
6648.75	.....	6808.75
6651.25	.....	6811.25
6653.75	.....	6813.75
6656.25	.....	6816.25
6658.75	.....	6818.75
6661.25	.....	6821.25
6663.75	.....	6823.75
6666.25	.....	6826.25
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 § 101.105 does not apply to this frequency pair.

(g) 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

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

(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 /1/	10666.25 /1/
10603.75 /1/	10668.75 /1/
10606.25 /1/	10671.25 //1
10608.75 /1/	10673.75 /1/
10611.25 /1/	10676.25 /1/
10613.75 /1/	10678.75 //1

/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 /1/	10632.5 /1/
10572.5 /1/	10637.5 /1/
10577.5 /1/	10642.5 /1/
10582.5 /1/	10647.5 /1/
10587.5	10652.5
10592.5	10657.5
10597.5	10662.5
10602.5	10667.5

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

(h) 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

(receive) (MHz)	(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: /2/

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.

/2/ In congested areas where 40 MHz channels block most 30 MHz channels, radios authorized for 30 MHz bandwidths may use the 40 MHz channels. In uncongested areas, 30 MHz channels should be used.

(i) 17,700 to 19,700 MHz. Applicants may use either a two-way link or one frequency of a frequency pair for a one-way link and must coordinate proposed operations pursuant to the procedures required in § 101.103. (Note, however, that stations authorized as of September 9, 1983 to use frequencies in the band 17.7-19.7 GHz may, upon proper application, continue to be authorized for such operations.)

(1) 2 MHz maximum authorized bandwidth channel:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
18141.0	n/a

(2) 5 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
18762.5	19102.5

18767.5	19107.5
18772.5	19112.5
18777.5	19117.5
18782.5	19122.5
18787.5	19127.5
18792.5	19132.5
18797.5	19137.5
18802.5	19142.5
18807.5	19147.5
18812.5	19152.5
18817.5	19157.5

(3) 6 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
18145.0	n/a
18151.0	18367.0
18157.0	18373.0
18163.0	18379.0
18169.0	18385.0
18175.0	18391.0
18181.0	18397.0
18187.0	18403.0
18193.0	18409.0
18199.0	18415.0
18205.0	18421.0
18211.0	18427.0
18217.0	18433.0
18223.0	18439.0
18229.0	18445.0
18235.0	18451.0
18241.0	18457.0
18247.0	18463.0
18253.0	18469.0
18259.0	18475.0
18265.0	18481.0
18271.0	18487.0
18277.0	18493.0
18283.0	18499.0
18289.0	18505.0
18295.0	18511.0
18301.0	18517.0
18307.0	18523.0
18313.0	18529.0
18319.0	18535.0
18325.0	18541.0
18331.0	18547.0
18337.0	18553.0

18343.0	18559.0
18349.0	18565.0
18355.0	18571.0
18361.0	18577.0

(4) 10 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
17705.0	19265.0
17715.0	19275.0
17725.0	19285.0
17735.0	19295.0
17745.0	19305.0
17755.0	19315.0
17765.0	19325.0
17775.0	19335.0
17785.0	19345.0
17795.0	19355.0
17805.0	19365.0
17815.0	19375.0
17825.0	19385.0
17835.0	19395.0
17845.0	19405.0
17855.0	19415.0
17865.0	19425.0
17875.0	19435.0
17885.0	19445.0
17895.0	19455.0
17905.0	19465.0
17915.0	19475.0
17925.0	19485.0
17935.0	19495.0
17945.0	19505.0
17955.0	19515.0
17965.0	19525.0
17975.0	19535.0
17985.0	19545.0
17995.0	19555.0
18005.0	18565.0
18015.0	19575.0
18025.0	19585.0
18035.0	19595.0
18045.0	19605.0
18055.0	19615.0
18065.0	19625.0
18075.0	19635.0
18085.0	19645.0
18095.0	19655.0
18105.0	19665.0

18115.0	19675.0
18125.0	19685.0
18135.0	19695.0
18585.0	18925.0
18595.0	18935.0
18605.0	18945.0
18615.0	18955.0
18625.0	18965.0
18635.0	18975.0
18645.0	18985.0
18655.0	18995.0
18665.0	19005.0
18675.0	19015.0
18685.0	19025.0
18695.0	19035.0
18705.0	19045.0
18715.0	19055.0
18725.0	19065.0
18735.0	19075.0
18745.0	19085.0
18755.0	19095.0
18765.0	19105.0
18775.0	19115.0
18785.0	19125.0
18795.0	19135.0
18805.0	19145.0
18815.0	19155.0

(5) 20 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
17710.0	19270.0
17730.0	19290.0
17750.0	19310.0
17770.0	19330.0
17790.0	19350.0
17810.0	19370.0
17830.0	19390.0
17850.0	19410.0
17870.0	19430.0
17890.0	19450.0
17910.0	19470.0
17930.0	19490.0
17950.0	19510.0
17970.0	19530.0
17990.0	19550.0
18010.0	19570.0
18030.0	19590.0
18050.0	19610.0

18070.0	19630.0
18090.0	19650.0
18110.0	19670.0
18130.0	19690.0
18590.0	18930.0
18610.0	18950.0
18630.0	18970.0
18650.0	18990.0
18670.0	19010.0
18690.0	19030.0
18710.0	19050.0
18730.0	19070.0
18750.0	19090.0
18770.0	19110.0
18790.0	19130.0
18810.0	19150.0

(6) 40 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
17720.0	19280.0
17760.0	19320.0
17800.0	19360.0
17840.0	19400.0
17880.0	19440.0
17920.0	19480.0
17960.0	19520.0
18000.0	19560.0
18040.0	19600.0
18080.0	19640.0
18120.0	19680.0

(7) 80 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
17740.0	19300.0
17820.0	19380.0
17900.0	19460.0
17980.0	19540.0
18060.0	19620.0

(8) 220 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)

17810.0	18470.0
18030.0	19370.0
18250.0	19590.0

(j) 31.0 to 31.3 GHz. These frequencies are shared on a co-equal basis with other stations in the fixed and mobile services (see Parts 74, 95, and 101). No interference protection is afforded to fixed or mobile stations operating in this band.

(1) 25 MHz authorized bandwidth channels, 150 MHz separation.

Transmit (receive) (MHz)	Receive (transmit) (MHz)
31,012.5	31,162.5
31,037.5	31,187.5
31,062.5	31,212.5
31,087.5	31,237.5
31,112.5	31,262.5
31,137.5	31,287.5

(2) 50 MHz authorized bandwidth channels, 150 MHz separation.

Transmit (receive) (MHz)	Receive (transmit) (MHz)
31,025.0	31,175.0
31,075.0	31,225.0
31,125.0	31,275.0

(k) Assignments in the band 38,600-40,000 MHz must be according to the following frequency plan:

Channel group A		Channel group B	
Channel No.	Frequency band limits MHz	Channel No.	Frequency band limits MHz
1-A	38,600-38,650	1-B	39,300-39,350
2-A	38,650-38,700	2-B	39,350-39,400
3-A	38,700-38,750	3-B	39,400-39,450
4-A	38,750-38,800	4-B	39,450-39,500
5-A	38,800-38,850	5-B	39,500-39,550
6-A	38,850-38,900	6-B	39,550-39,600
7-A	38,900-38,950	7-B	39,600-39,650
8-A	38,950-39,000	8-B	39,650-39,700
9-A	39,000-39,050	9-B	39,700-39,750
10-A3	9,050-39,100	10-B	39,750-39,800
11-A	39,100-39,150	11-B	39,800-39,850
12-A	39,150-39,200	12-B	39,850-39,900

13-A	39,200-39,250	13-B	39,900-39,950
14-A	39,250-39,300	14-B	39,950-40,000

These channels are assigned for use within a rectangular service area to be described in the application by the maximum and minimum latitudes and longitudes. Such service area must be as small as practicable consistent with the local service requirements of the carrier. These frequency plans may be subdivided as desired by the licensee and used within the service area as desired without further authorization subject to the terms and conditions set forth in § 101.723. These frequencies may be assigned only where it is shown that the applicant will have a reasonable projected requirement for a multiplicity of service points or transmission paths within the area.

(l) Fixed systems licensed, in operation, or applied for in the 5925-6425, 10,550-10,680, and 10,700-11,700 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.

(m) In the 3700-4200, 5925-6425, 6525-6875, 10,550-10,680, and 10,700-11,700 MHz bands point-to-point operations on other than the listed frequencies may be authorized where it is shown that the objectives or requirements of the interference criteria prescribed in § 101.105 could not otherwise be met to resolve the interference problems.

§ 101.705 Transmitter power.

Stations in this service may not be authorized to use transmitters having a rated power output in excess of the limits set forth in § 101.113(b) and a standby transmitter having a rated power output in excess of that of the main transmitter with which it is associated will not be authorized.

§ 101.707 Bandwidth and emission limitations.

(a) The maximum bandwidth authorized may not exceed that reasonably necessary to provide the proposed service but in no event may it exceed the limits set forth below:

Frequency band (MHz)	Maximum authorized bandwidth (MHz)
932.5 to 935	0.2
941.5 to 944	0.2
2,110 to 2,130	3.5
2,160 to 2,180	3.5
3,700 to 4,200	20.0
5,925 to 6,425	30.0
6,525 to 6,875	10.0
10,550 to 10,680	5.0
10,700 to 11,700	40.0
13,200 to 13,250	25.0
17,700 to 18,580	220.0
18,580 to 18,820	20.0
18,820 to 18,920	10.0
18,920 to 19,160	20.0
19,160 to 19,260	10.0
19,260 to 19,700	220.0

21,200 to 22,000	100.0
22,000 to 23,600	100.0
27,500 to 29,500	220.0
31,000 to 31,300	25.0 or 50.0
38,600 to 40,000	50.0

(b) The bandwidths authorized on frequencies above 500 MHz must be appropriate to the type of operation in any particular case. An application requesting such authorization must fully describe the modulation, emission, and bandwidth desired and must specify the bandwidth to be occupied.

§ 101.709 Modulation requirements.

When amplitude modulation is used, the modulation percentage must be sufficient to provide efficient communication, and must normally be maintained above 70 percent on positive peaks but may not exceed 100 percent on negative peaks.

§ 101.711 Permissible communications.

Stations in this service are authorized to render any kind of communication service provided for in the legally applicable tariffs of the carrier, unless otherwise directed in the applicable instrument of authorization or limited by § 101.703 or § 101.707.

§ 101.713 Supplementary showing required with applications.

(a) All applicants for regular authorization under this subpart must, before filing an application, amendments to a pending application or modifications to a license, prior coordinate the proposed frequency usage with existing users in the area and other applicants with previously filed applications in accordance with the procedures in § 101.103 except that stations authorized under § 101.715 may complete the prior coordination process orally and the period allowed for response to a coordination notification may be less than 30 days if the parties agree.

(b) In those frequency bands shared with the communication-satellite service and applicant for a new station, for new points of communication, for the initial frequency assignment in a shared band for which coordination has not been previously effected, or for authority to modify the emission or radiation characteristics of an existing station in a manner that may increase the likelihood of harmful interference, must ascertain in advance whether the station(s) involved lie within the great circle coordination distance contours of an existing Earth station or one for which an application has been accepted for filing, and must coordinate his proposal with each such Earth station operator or applicant. For each potential interference path, the applicant must perform the computations required to determine that the expected level of interference to or from the terrestrial station does not exceed the maximum permissible interference power level in accordance with the technical standards and requirements of Secs. 25.251-25.256 of this chapter. In those instances where the results of these computations indicate a safety margin of less than 5 dB, the applicant must submit with the application to the Commission, certain additional information; the gains assumed for both the terrestrial and Earth station antennas in the direction of the other station; the calculated transmission loss; and the resulting margin above the controlling objective. The Commission may, in the course of examining any application, require the submission of additional showings, complete with pertinent data and calculations in accordance with Part 25 of this chapter, showing that harmful interference will not likely result from the proposed operation. (Technical characteristics of the Earth stations on file and coordination contour maps for those Earth stations will be kept on file for public inspection in the offices of the Commission's Common Carrier Bureau in Washington, D.C.)