EXHIBIT 13. CHANNEL PLAN AND SEPARATION

Optional for DTS

EXHIBIT 14. MPE CALCULATIONS

The following MPE calculations are based on the trace PCB inverted F antenna with a measured ERP of 119.0 dbuV/m (at 3 meters) and conducted RF power of 19.6 dBm as presented to the antenna. The calculated gain of this antenna is 4.17 dB.

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	19.60	(dBm)
Maximum peak output power at antenna input terminal:	91.201	(mW)
Antenna gain(typical):	4.17	(dBi)
Maximum antenna gain:	2.612	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2405	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)
Power density at prediction frequency:	0.047395	(mW/cm^2)
Maximum allowable antenna gain:	17.4	(dBi)
Margin of Compliance at 20 cm =	13.2	dB

EXHIBIT 13. CHANNEL PLAN AND SEPARATION

Optional for DTS

EXHIBIT 14. MPE CALCULATIONS

The following MPE calculations are based on the Nearson S131CL half wavelength dipole antenna with a measured ERP of 116.5 dBuV/m (at 3 meters) and conducted RF power of +19.8 dBm as presented to the antenna. The gain of this antenna, based on the specification sheet is 2.0 dBi.

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	19.80	(dBm)
Maximum peak output power at antenna input terminal:	95.499	(mW)
Antenna gain(typical):	2	(dBi)
Maximum antenna gain:	1.585	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2405	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)
Power density at prediction frequency:	0.030111	(mW/cm^2)
Maximum allowable antenna gain:	17.2	(dBi)
Margin of Compliance at 20 cm =	15.2	dB