

RADIATION HAZARD STATEMENT

UNIVERSITY OF UTAH RICHFIELD, UTAH

Access to the site is restricted by its remote location. However, calculations, as outlined by OST 65 (Table 2-1) show that RFR in both controlled and uncontrolled conditions are well under the minimum levels for exposure notification and signage. When workers actually ascend the tower, the power fed to the antenna will be reduced or removed, as appropriate, to insure that RF energy in the area(s) where workers will be working on the tower will be reduced to a level such that FCC-specified guidelines, as outlined in OST Bulletin No. 65, will not be exceeded. The applicant will carry out its responsibilities in this area in a conservatively responsible manner, removing all power to its antenna if there is any question as to whether workers on the tower may be exposed to RF radiation in excess of FCC-specified guidelines.

Calculations for KUES-DT
Table 2-1
Power Density in uW/cm(sq)
Assuming Flat Surface

330 W (ERP)									
541.2 W (EIRP)						Distance			
Antenna	.	Distance	Power	Percent of	Percent of	to 2m Above	Power	Percent of	Percent of
Depression	Relative	to Ground	Density	Controlled	Uncontrolled	Ground	Density	Controlled	Uncontrolled
Angle	Field	(meters)	uW/cm(sq)	Exposure	Exposure	(meters)	uW/cm(sq)	Exposure	Exposure
-50	0.155	22.19	0.54	0%	0%	19.58	0.69	0%	0%
-60	0.084	19.63	0.20	0%	0%	17.32	0.26	0%	0%
-70	0.14	18.09	0.66	0%	0%	15.96	0.85	0%	0%
-80	0.222	17.26	1.82	0%	0%	15.23	2.34	0%	1%
-90	0.076	17.00	0.22	0%	0%	15.00	0.28	0%	0%