	ite Uplink Fac	Juity		
NBC WA-2	No FCC License	Found		
Antenna Vendor:	Vertex RSI Mode	el 240KV		
Antenna Size:	2.3 m			
Amplifier Make/Model:	ETM 125 KU			
Amplifier Max Power:	125 w			
	Courses	Units	Natas	
FCC Maximum Permissible Exposure Levels Public/uncontrolled area exposure limit	Source 47CFR §1.1310	1 mW/cm ²	Notes	
Occupational/controlled area exposure limit	47CFR §1.1310	5 mW/cm ²		
Innut Data				
Input Data Antenna Diameter	datasheet	230.0 cm		
Antenna surface area	calculated	41548 cm ²		
Feed flange diameter	measured	6.350 cm	WR-75	
Feed flange area	calculated	32 cm ²	Micro	
Frequency	(entry)	14125 MHz		
Wavelength (speed of light = 299,792,458 m/s)	calculated	2.122 cm		
Transmit power at flange	datasheet	125000 milliwatts		
Antenna gain	datasheet	49.3 dBi		
Antenna gain factor	calculated	85114		
Height of base of antenna above ground	measured	3.96 m		
Height of center of antenna above ground	measured	5.11 m		
Minimum Elevation Angle	(entry)	5 degrees		
Minimum Elevation Angle	calculated	0.08727 radians		
	Galoulatou	radiano	FCC Maximum Permis	sible Exposure (MPE)
Results calculated using FCC Bulletin OET-65 (Editio	n 97-01 August 19	997)	Uncontrolled	Controlled
Maximum power density at antenna surface	Eq. 11 Pg 27	12.03440023 mW/cm ²	Potential Hazard	Potential Hazard
Power density at feed flange	Eq. 11 Pg 27	15788.20193 mW/cm ²	Potential Hazard	Potential Hazard
Extent of near-field	Eq. 12 Pg 27	6231 cm		
Maximum new-field power density	Eq. 13 Pg 28	8.837583423 mW/cm ²	Potential Hazard	Potential Hazard
Aperture efficiency	Eq. 14 Pg 28	0.734360105		
Distance to beginning of far-field	Eq. 16 Pg 29	14954.59569 cm		
Power density at end of the transition regiion	Eq. 17 Pg 29	3.682326426 mW/cm ²	Potential Hazard	Below FCC MPE
Maximum far-field power density	Eq. 18 Pg 29	3.786 mW/cm ²	Potential Hazard	Below FCC MPE
Main Beam Far-field region safe exposure distances				
Minimum distance for public/uncontrolled exposure	Eq. 18 Pg 29	290.9712465 meters		
Height at minimum antenna elevation angle	calculated	30.4698151 meters		
Horizontal distance	calculated	289.864013 meters		
	calculated			
Minimum distance for occupational/controlled exposure	Eq. 18 Pg 29	130.1262973 meters		
Height at minimum antenna elevation angle	calculated	16.45125409 meters		
Horizontal distance	calculated	129.6311275 meters		
Off-Axis Near Field/Transition Region safe exposure	distances from ar	ntenha		
(20 dB reduction in power density at distances greater	OFT OF De 20			
than one antenna diameter from the main beam center.)	OET-65 Pg 30	2 202 1 11/2		D.I. 500 MET
Maximum off-axis near field power density	Eq. 13 Pg 28	0.0884 mW/cm ²	Below FCC MPE	Below FCC MPE
Public/uncontrolled exposure off-axis distance	Diam/or Eq 17	2.3 meters		
Occupatonal/controlled exposure off-axis distance	Diam/or Eq 17	2.3 meters		
Off-Axis Far Field safe exposure distances from the a				
(Based on side lobe attenuation required by FCC 25.209(
Angle off main beam axis (1 to 48 degrees)	(entry)	5 degree(s)		
	OET-65 Pg 30*	28		
Off-axis antenna gain factor	-			
Off-axis antenna gain factor Minimum distance for public/uncontrolled exposure	Eq. 18 Pg 29 **	149.5459569 meters		
Off-axis antenna gain factor Minimum distance for public/uncontrolled exposure * Gain converted from dBi to linear multiple	Eq. 18 Pg 29 **	149.5459569 meters		
Off-axis antenna gain factor Minimum distance for public/uncontrolled exposure * Gain converted from dBi to linear multiple ** If calculated distance is less than the start of the	Eq. 18 Pg 29 **	149.5459569 meters		
Off-axis antenna gain factor Minimum distance for public/uncontrolled exposure * Gain converted from dBi to linear multiple	Eq. 18 Pg 29 **	149.5459569 meters		