

ELTA North America Request for FCC Experimental License

Form 442 File Number: 0750-EX-CN-2018

Form 442 Confirmation Number: EL958467

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Question 9: Statement of Environmental Impact

The specified location for this application are isolated and have wide open area surrounding including trees and foliage necessary for testing the radar.

The antenna will be mounted on top of a 107 foot mast which will be located on ground The radar equipment will be remotely controlled.

It is the policy of ELTA N.A. that company personnel, customers, or members of the public are not subjected to RF power density levels that exceed the Maximum Permissible Exposure (MPE) limits as given in Part 1.1310 of the FCC Rules. Experimental testing will only be conducted with appropriate controls in place, and no personnel will be on the roof during transmissions that will exceed the MPE levels. ELTA N.A. will have an RF Safety Plan which describes the procedures and controls necessary to comply with MPE levels during operations and maintenance. Measurements will also be used to confirm that MPE levels are not exceeded.

¹ Cleveland, Robert F., et al., *Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields*, Edition 97-01, OET BULLETIN 65, Washington D.C.: Federal Communications Commission, Office of Engineering and Technology, August 1997.

Table 1 – Power Density Analysis

Parameter	Value
Operational frequency, MHz	1265
Transmitter output power (peak),	1 W
Antenna gain (mainbeam), dBi	12
Ground reflection factor	2.56

**Table 2 – Power Density Analysis
Results**

Parameter	Controlled	Uncontrolled
Maximum Permissible Exposure, mW/cm ²	10	6.6
Minimum required distance, meters	0.5	1
Minimum required distance, feet	2	3