

DESCRIPTION OF EXPERIMENTAL PROGRAM

XonTech d/b/a Northrop Grumman Mission Systems (“NGMS”) requests an experimental radio station authorization in order to test the XonTrak pulse-Doppler radar pursuant to contract number F33600-02-D-2000. NGMS requests an experimental radio authorization with a term of 5 years to cover the testing of the equipment. It is anticipated that the facilities will be operated a few hours one day per week over the license term.

The proposed testing will occur at a fixed location at 12011 Sunset Hills Road, Reston (Fairfax County), Virginia (NAD-83 coordinates: NL 77-21-23; WL 38-57-19).

The testing will involve both linear and non-linear frequency modulated waveforms under the parameters specified below.

Transmitter:	Peak radiated power	= 15 dBW	(31.62 W)
	Antenna Gain	= 33 dBi	
	Peak EIRP	= 48 dBW	(63,095.73445 W)
	Peak ERP	= 43.85 dBW	(24,274.82747 W)
	Band	9.55-10.45 GHz	
	Longest Pulsewidth	= 32.8 μ S	
	Maximum Duty Cycle	= 16.8%	
	Max. Avg. EIRP	= 40.25 dBW	(10,592.53725 W)
	Max. Avg. EIRP/MHz	= 29.3 dBW	(851.13804 W)

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