

From: David Siddall

To: Doug Young

Date: December 10, 2015

Subject: Request for info - File #0561-EX-PL-2015

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Message:

Radar system demonstrations are expected at Eglin Air Force Base, Florida; Holloman Air Force Base, New Mexico; and China Lake Naval Weapons Center, California. Operations will be conducted in the airspace controlled by the respective base Range Operations, and fully coordinated with them. Additionally, the Frequency Management offices at each military base will be contacted and proper information regarding the system operation will be shared.

Transmitter Output Power (watts): 600 W / 2.3 MW ERP Peak (Tx power x gain)  
Average / mean power is 759 KW ERP with a 33% duty cycle

Antenna Information

Manufacturer: Northrop Grumman

Model / Part Number: NP283K000G01

Nomenclature / Name: Advanced Ka Antenna

Antenna Type: AESA

Antenna Gain (dBi): 38 dBi

Main Beam Width: 2.5 deg

The system will be airborne, and will be scanning in a cone of nominally +/- 60 degrees in azimuth and elevation, centered along the lines of the aircraft velocity vector. So it will in effect be capable of pointing everywhere to the horizon, but for very limited periods of time, with a 33% duty cycle. In practice it will be looking at targets, with a more fixed scan volume, but at this time their location and orientation are unknown.

Stop Buzzer POC: Kevin Nekula, Northrop Grumman ES, 410-765-6567, kevin.nekula@ngc.com