

Northrop Grumman Request for Experimental License

This application is for an experimental license to use 33.0 GHz to 36.0 GHz for the purpose of conducting experiments with wide-band radar applications incorporating new designs for RF antenna apertures and digital synthesizers. The work also will include modified software to process the wide band linear FM signals. Modified Northrop Grumman transmitters and active AESA antennae for Ka band radar systems will be used. Pulse Widths to be employed are 104 usec, 120 usec, and 220 usec. PRFs will be 9.6 KHz, 8.3 KHz, and 4.5 KHz. Vertical polarization will be used, employing a Northrop Grumman experimental AESA antenna, model number NP283K000G07. This antenna has a main beam width of 2.5 degrees with 40 dBi gain.