

EXHIBIT 1
FCC FORM 442
ITEMS 4a-4g

This radar transmitter is intended to be flexible in its output parameters. Although transmissions are expected to use the nominal values, test conditions may dictate using others within the range below.

Parameter	Nominal	Range
Peak Power	8 kW	4-20 kW
PRF	1500 Hz	400-3000 Hz
Pulse Width	30 μ Sec	2-100 μ Sec
Linear FM Sweep Rate	600 MHz in 30 μ Sec	600 MHz in 20-100 μ Sec

The necessary bandwidth for the radar was calculated using the formula below:

$$B_n = (6.36 / t) + 2M$$

where $t = 2 \mu\text{Sec}$ and $M = 600 \text{ MHz}$
 $B_n = 1203 \text{ MHz}$

EXHIBIT 2
FCC FORM 442
ITEM 7

Northrop Grumman Corporation, under contract #N00014-95-C-0199 with the U.S. Navy Office of Naval Research, is required to develop and demonstrate a radar transmitter using advanced modes. Modes to be demonstrated include synthetic aperture radar (SAR), inverse SAR (ISAR), moving target indication (MTI), and moving target imaging (MTIm). The radar is to be developed and tested at Northrop Grumman Norden Systems in Norwalk, CT initially, with flight testing on board a Northrop Grumman BAC 1-11 (based at BWI Airport) and a U. S. Navy P-3 (based at Patuxent River Naval Air Station) beginning in late 1998. These tests are expected to continue through 1999 into 2000. The Navy point of contact is Susan Vilello at 703-696-2605.