

FCC Form 442 .  
Application for a New Experimental  
Radio Station License

Northrop Grumman Corporation

**EXHIBIT 1**  
(FCC Form 442, Item 4)

The frequencies requested in this application are required to conduct testing, including quality control, of mobile robotic systems. The transmitter that will operate using the 138-144 MHz band is produced by Dataradio COR, Ltd. and has an FCC equipment acceptance number of NP42424016-001.

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**EXHIBIT 2**  
(FCC Form 442, Item 4)

The proposed operations for the experimental radio facility will be conducted within a 10 km radius around the following three center points:

Oak Ridge, TN:	NL 36-00-40; WL 84-13-30
Lenior City, TN:	NL 35-52-50; WL 84-18-45
Elizabethtown:	NL 37-40-00; WL 86-09-23

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**EXHIBIT 3**  
(FCC Form 442, Item 7)

Northrop Grumman Corporation ("NGC") is required under U.S. Army contract DAAH-01-C-0127 to develop and test a mobile robot. NGC will use the requested experimental radio station license's facilities for testing, which is necessary to verify the communications links and mobility of the robot under the various conditions that it might experience during actual use.