

Rev'd 3-26-86

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CHARTERED

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March 25, 1996

HAND DELIVERY

Mr. Carl Huie
Federal Communications Commission
Office of Engineering and Technology
Experimental Licensing Branch
2000 M Street, N.W.
Suite 230
Washington, DC 20554

Re: Application of Northrop Grumman Corporation
File No. 5086-EX-PL-95

Dear Mr. Huie:

This letter and enclosures are submitted in response to your telephone request for information concerning the above-mentioned FCC Form 442 application. As you know, this application is one of four pending applications which Northrop Grumman Corporation acquired as a result of the grant of its FCC Form 702 application, filed February 22, 1996, requesting consent to assignment of experimental licenses and pending applications from Westinghouse Communication Services, Inc. to Northrop Grumman Corporation.

The information consists of corrected pages two and four to FCC Form 442. Page two is submitted to correct the emission and necessary bandwidth. Page 4 is submitted to respond to question 18, to supply a "no" response to question 20 and to request the deletion of Exhibit 3 to the application, which related to the "yes" response initially supplied by Westinghouse Communication Services, Inc. in response to that question. In all other respects, the information contained herein is identical to that initially submitted by Westinghouse Communications Services, Inc. Northrop Grumman respectfully requests that these corrected pages be substituted for those currently on file.

Questions concerning this submission may be directed to the undersigned, or to Susan Clark, a Legal Assistant in this office, at (202) 371-6061.

Sincerely,



Thomas J. Keller
Attorney for Northrop Grumman Corporation

Enclosures
cc: Steve Balaz (via facsimile)

**APPLICATION FOR NEW OR MODIFIED RADIO STATION AUTHORIZATION UNDER PART 5
OF FCC RULES - EXPERIMENTAL RADIO SERVICE (OTHER THAN BROADCAST)**

1. Applicant's Name and Post Office address (Street address, city, state, and ZIP Code. See Instruction No. 4) Northrop Grumman Corporation 1840 Century Park East Los Angeles, CA 90067 Attn: James C. Johnson	DO NOT WRITE IN THIS BLOCK File No.
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2(a). Application for (check only one box) ☒ New station ☐ Modification of existing authorization	2(b). For Modification indicate below: File No: 5086-EX-PL-95 Call Sign:
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3. Application for modification indicate whether change is an addition or replacement of (check all that apply)

☐ FREQUENCY ☒ EMISSION ☐ POWER ☐ LOCATION

☒ OTHER PARTICULARS (describe below or in attached EXHIBIT No. _____)

Necessary bandwidth

4. Particulars of Operation (see instruction below)						
Frequency (state whether kHz or MHz)	POWER			EMISSION	MODULATING SIGNAL	NECESSARY BANDWIDTH (kHz)
(A)	(B)	(C)	(D)	(E)	(F)	(G)
9.5-10.5 GHz	29.2 kw	113.6 dBm	Mean	114M4MINEN	200 Hz to 5 MHz	114.4 MHz
w/10 MHz				114M4WINEN	PRF	
Channel spacing					0.1 to 20000 usec pulses	
13.4-13.6 GHz	29.2 kw	117.1 dBm	Mean	114M4MINEN	200 Hz to 5 MHz	114.4 MHz
w/10 MHz				114M4WINEN	PRF	
Channel spacing					0.1 to 2000 usec pulses	

- (A) List each frequency or frequency band separately. (If more space is required, attach as EXHIBIT No. _____)
- (B) Insert maximum R.F. output power at the transmitter terminals. Specify units.
- (C) Insert maximum effective radiated power from the antenna (If pulsed emission, specify peak power).
- (D) Insert "MEAN" or "PEAK" (See definitions in Part 5).
- (E) List each type of emission separately for each frequency. (See Section 2.201 of FCC Rules.)
- (F) Insert as appropriate for the type of modulation:
- (1) the maximum speed of keying in bauds;
 - (2) maximum audio modulating frequency;
 - (3) frequency deviation of carrier;
 - (4) pulse duration and repetition rate.
- For complex emissions, describe in detail in the space provided below.
- (G) Describe how the necessary bandwidth was determined in space provided below.

14. Is the equipment listed in Item 13 capable of station identification pursuant to Section 5.152? ☐ YES ☒ NO
15. Will the antenna extend more than 6 meters above the ground, or if mounted on an existing building, will it extend more than 6 meters above the building, or will the proposed antenna be mounted on an existing structure other than a building? ☒ YES ☐ NO
- If "YES", give the following (see instruction 9):
- (a) Overall height above ground to tip of antenna is 11 meters.
- (b) Elevation of ground at antenna site above mean sea level is 45.7 meters.
- (c) Distance to nearest aircraft landing area is 0.557 kilometers.
- (d) List any natural formations of existing man-made structures (hills, trees, water tanks, towers, etc.) which, in the opinion of the applicant, would tend to shield the antenna from aircraft and thereby minimize the aeronautical hazard of the antenna.

Antenna will be mounted approximately 10 meters upon an existing 30 meter tall tower. FAA has been notified

- (e) Submit as EXHIBIT No. 2 a vertical profile sketch of total structure including supporting building, if any, giving heights in meters above ground for all significant features. Clearly indicate existing portion, noting particulars of aviation obstruction lighting already available.

16. Applicant is: (Check only one box)

- ☐ INDIVIDUAL ☐ ASSOCIATION ☐ PARTNERSHIP ☒ CORPORATION
- ☐ OTHER (describe below)

17. Is applicant a foreign government or a representative of a foreign government? ☐ YES ☒ NO

18. Has applicant or any party to this application had any FCC station license or permit revoked or had any application for permit, license or renewal denied by this Commission? ☐ YES ☒ NO

If "YES", attach as EXHIBIT No. _____ a statement giving call sign of license or permit revoked and relate circumstances.

19. Will applicant be owner and operator of the station? ☒ YES ☐ NO

20. Give name, title, and telephone number (Include area code) of person who can best handle inquiries pertaining to this application.

Steve Balaz, Frequency Coordinator, Northrop Grumman Corporation, (410) 765-5626

21. APPLICANT ANTI-DRUG ABUSE CERTIFICATION:

By checking "YES", the applicant certifies that, in the case of an individual applicant, he or she is not subject to denial of federal benefits, that includes FCC benefits, pursuant to Section 5301 of the Anti- Drug Abuse Act of 1988, 21 U.S.C. 862, or, in the case of a non- individual applicant (e.g., corporation, partnership, or other unincorporated association), no party to the applicant is subject to a denial of federal benefits, that includes FCC benefits, pursuant to that section. For the definition of "party" for these purposes, see 47 CFR 1.2002(b).

☒ YES ☐ NO

22. List below all exhibits in numerical sequence and the item number of form requiring the exhibit identified.

EXHIBIT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER	ITEM NO. OF FORM
1	10				
2	15(e)				