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Form Approved OMB No. 2120-0001

U.S. Department of Transportation
Federal Aviation Administration

Failure To Provide All Requested Information May Delay Processing of Your Notice

Notice of Proposed Construction or Alteration

FOR FAA USE ONLY
Aeronautical Study Number

1. Sponsor *(person, company, etc. proposing this action):*
Attn.of: Steven F. Balaz
Name: Northrop Grumman Corporation
Address: P. O. Box 746, Mail Stop 170
City: Baltimore State: MD Zip: 21203
Telephone: (410) 765-5626 Fax: (410) 765-6898

2. Sponsor's Representative *(if other than #1):*
Attn.of:
Name:
Address:
City: State: Zip:
Telephone: Fax:

3. Notice of: [X] New Construction [ ] Alteration [ ] Existing

4. Duration: [ ] Permanent [X] Temporary (36 months, days)

5. Work Schedule: Beginning 1/1/00 End 12/31/00

6. Type: [ ] Antenna Tower [ ] Crane [ ] Building [ ] Power Line
[ ] Landfill [ ] Water Tank [X] Other radar antenna

7. Marking/Painting and/or Lighting Preferred:
[ ] Red Lights and Paint [ ] Dual - Red and Medium Intensity White
[ ] White - Medium Intensity [ ] Dual - Red and High Intensity White
[ ] White - High Intensity [X] Other None

8. FCC Antenna Structure Registration Number *(if applicable):*

9. Latitude: 39 ° 10 ' 45.01 "

10. Longitude: 076 ° 41 ' 22.31 "

11. Datum: [X] NAD 83 [ ] NAD 27 [ ] Other

12. Nearest: City: Linthicum State: MD

13. Nearest Public-use (not private-use) or Military Airport or Heliport:
Baltimore-Washington International

14. Distance from #13. to Structure: 1600 ft.

15. Direction from #13. to Structure: 346 deg.

16. Site Elevation *(AMSL):* 152.6 ft.

17. Total Structure Height *(AGL):* 22 ft.

18. Overall Height (#16. + #17.) *(AMSL):* 174.6 ft.

19. Previous FAA Aeronautical Study Number (if applicable):
- OE

20. Description of Location: (Attach a USGS 7.5 minute Quadrangle Map with the precise site marked and any certified survey.)
The radar antenna will be mounted on the ground at the Blueberry Hill Test Site located 1600'from BWI runway 10. See attached vertical profile showing shielding by additional existing 123ft. high steel tower.

21. Complete Description of Proposal:

Northrop Grumman Corporation is developing a new solid state transmitter for existing AN/TPS-70 radars to extend the useful life of the product and increase its capability and reliability
A Standard TPS-70 antenna will be mounted on the ground.
The radar can transmit up to 32kW of Peak power on two channels within the range of 2.8-3.1 GHz.
The radar system includes an L-Band interrogator which produces 2kW of peak power at 1030 MHz.The radar is capable of blanking if required. Actual transmitter frequencies will be selected based on the terms of an FCC Experimental Station license (application attached).

Frequency/Power (kW)	

Notice is required by 14 Code of Federal Regulations, part 77 pursuant to 49 U.S.C., Section 44718. Persons who knowingly and willingly violate the notice requirements of part 77 are subject to a civil penalty of $1,000 per day until the notice is received, pursuant to 49 U.S.C., section 46301 (a).

I hereby certify that all of the above statements made by me are true, complete, and correct to the best of my knowledge. In addition, I agree to mark and/or light the structure in accordance with established marking and lighting standards as necessary.

Date	Typed or Printed Name and Title of Person Filing Notice	Signature
12/22/99	Steven F. Balaz Spectrum Licensing Specialist	Steven F Balaz

FAA Form 7460-1 (2-99) Supercedes Previous Edition

NSN: 0052-00-012-0008

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Attn.of: Steven F. Balaz
Name: Northrop Grumman Corporation
Address: P. O. Box 746, Mail Stop 170
City: Baltimore State: MD Zip: 21203
Telephone: (410)765-5626 Fax: (410)765-6898

2. Sponsor's Representative *(if other than #1):*
Attn.of:
Name:
Address:
City: State: Zip:
Telephone: Fax:

3. Notice of: [X] New Construction [ ] Alteration [ ] Existing

4. Duration: [ ] Permanent [X] Temporary (36 *months,* days)

5. Work Schedule: Beginning 1/1/00 End 12/31/00

6. Type: [X] Antenna Tower [ ] Crane [ ] Building [ ] Power Line
[ ] Landfill [ ] Water Tank [ ] Other

7. Marking/Painting and/or Lighting Preferred:
[ ] Red Lights and Paint [ ] Dual - Red and Medium Intensity White
[ ] White - Medium Intensity [ ] Dual - Red and High Intensity White
[ ] White - High Intensity [X] Other No preference

8. FCC Antenna Structure Registration Number *(if applicable):*
Pending following this application

9. Latitude: 39 ° 11 ' 08.59 "

10. Longitude: 076 ° 42 ' 10.26 "

11. Datum: [X] NAD 83 [ ] NAD 27 [ ] Other

12. Nearest: City: Linthicum State: MD

13. Nearest Public-use (not private-use) or Military Airport or Heliport:
Baltimore-Washington International

14. Distance from #13. to Structure: 5680 ft.

15. Direction from #13. to Structure: 270 deg.

16. Site Elevation *(AMSL):* 242 ft.

17. Total Structure Height *(AGL):* 37 ft.

18. Overall Height (#16. + #17.) *(AMSL):* 279 ft.

19. Previous FAA Aeronautical Study Number (if applicable):
85-AEA-1065 - OE

20. Description of Location: (Attach a USGS 7.5 minute Quadrangle Map with the precise site marked and any certified survey.)
The radar antenna will be mounted on an existing 15ft. high tower located 5680ft. from BWI runway 15R. See attached vertical profile showing shielding by additional existing 63ft high tower.

21. Complete Description of Proposal:

Northrop Grumman Corporation is developing a new solid state transmitter for existing AN/TPS-70 radars to extend the useful life of the product and increase its capability and reliability A Standard TPS-70 antenna will be mounted on an existing 15ft. tall steel tower at 1166 Stoney Run RD. The radar can transmit up to 32kW of peak power on two channels within the range of 2.8 to 3.1 GHz.The radar system includes an L-Band interrogator that produces 2kW of peak power at 1030 MHz.The radar is capable of blanking if required. Actual transmitter frequencies will be selected based on the terms of an FCC Experimental Station license (application attached).

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