

WALLOPS FREQUENCY UTILIZATION MANAGEMENT WORKING GROUPFREQUENCY UTILIZATION REQUEST

IT IS REQUESTED THAT THE INDICATED FREQUENCY BE REVIEWED FOR USE AT THE GSFC/WFF.

1. FREQUENCY: 902-928 MHz
2. ORGANIZATION: Aerosonde North America
3. PROJECT: WUAVF
4. SPECIFY ALL COORDINATION REQUIREMENTS FOR AREAS OR ORGANIZATIONS OUTSIDE WALLOPS FLIGHT FACILITY: None
5. SPECIFY ALL COORDINATION REQUIREMENTS FOR AREAS OR ORGANIZATIONS WITHIN WALLOPS FLIGHT FACILITY (NASA OR TENANTS): Routine
6. STATION CLASS: NAV
7. BANDWIDTH/EMISSION: 350K00F1D
8. IF A FREQUENCY BAND IS REQUESTED, DOES SYSTEM OPERATE ON DISCRETE FREQUENCIES IN THE BAND, SPREAD SPECTRUM, FREQUENCY HOPPING, OR HOW? Frequency Hoping Spread Spectrum.
9. ORGANIZATION/PROJECT CONTACT: (b) (6)
10. CONTACT PHONE NUMBER: (757) 854-4620/4618  
(b) (6)
11. DESCRIPTION OF HOW FREQUENCY WILL BE USED, METHOD OF OPERATION, ETC.: Frequencies in the specified band will be used for transmitting from a ground station to a UAV(s) for uplinking commands during tests/operations.
12. PERIOD OF USAGE, (INCLUDE OVERALL TIME FRAME, DAYS/WEEK, HOURS/DAY OF PROJECTED USAGE OR OTHER NARRATIVE DESCRIPTION): Starting NET May 24, 2004. Will be used indefinitely and occasionally as scheduled. Will start with flights lasting about 5 hours and eventually as long as 30 hours/flight, 3 flights per week, 400-500 hours per year.

File No. 646  
April 1993

## 13. TRANSMITTER DATA

- A. NOMENCLATURE: Microhard Systems Inc. Model MHX-910
- B. LOCATION:  
Bldg. N-159 (Lab or just outside the bldg.) (tests)  
near Main Base runways (operations)  
ACC (E-106A, on handrails) (operations)  
Bldg. Z-40 (Rooftop) (operations)
- C. TRANSMITTER PEAK POWER OUTPUT: 1 Watt
- D. TRANSMITTER AVERAGE POWER OUTPUT: 1 Watt
- E. PULSE WIDTH: NA
- F. MAXIMUM DUTY CYCLE: NA
- G. PULSE REPETITION FREQUENCY: NA
- H. STABILITY: NAV
- I. ANTENNA TYPE: small omni, or yagi
- J. ANTENNA HEIGHT ABOVE GROUND:  
~6 Ft. (in or near Bldg. N-159)  
~6 Ft. (near Main Base runways)  
~45 Ft. (ACC)  
~15 Ft. (Bldg. Z-40 rooftop)
- K. ANTENNA POLARIZATION: linear
- L. ANTENNA GAIN: 6.0 dBi - small omni  
11.0 dBi - yagi
- M. ANTENNA, FIXED OR ROTATABLE: Fixed - omni  
Steerable - Yagi
- N. ANTENNA, BEAM WIDTH - AZ: 360° - omni  
60° - yagi
- O. ANTENNA, BEAM WIDTH - EL: 180° - omni  
50° - yagi
- P. FIXED ANTENNA DIRECTION OF RADIATION: NAP - omni  
Seaward - yagi
- Q. TRANSMISSION SYSTEM ATTENUATION LOSSES: ~5 dB
- R. ANTENNA LATITUDE AND LONGITUDE:  
~37° 56' 00"N; 75° 28' 21"W (in or near N-159)  
~37° 56' 27"N; 75° 27' 44"W (center of triangle between Main  
Base runways or in radius approx. 1 mile from this location)  
~37° 56' 13"N; 75° 28' 12"W (ACC)  
~37° 49' 57"N; 75° 29' 19"W (Bldg. Z-40)

## 14. RECEIVER DATA NAV

- A. NOMENCLATURE:
- B. LOCATION:

## 14. RECEIVER DATA NAV

- A. NOMENCLATURE:
- B. LOCATION:
- C. STABILITY:
- D. SENSITIVITY:
- E. ANTENNA TYPE:
- F. ANTENNA POLARIZATION:
- G. ANTENNA GAIN:
- H. ANTENNA, FIXED OR ROTABLE:
- I. ANTENNA, BEAM WIDTH - AZ:
- J. ANTENNA, BEAM WIDTH - EL:
- K. FIXED ANTENNA DIRECTION OF PATTERN:
- L. ANTENNA LATITUDE AND LONGITUDE:

15. HAS FREQUENCY ALREADY BEEN ASSIGNED TO ORGANIZATION BY NTIA OR FCC FOR AREA IN WHICH IT WILL BE USED? None needed.

## 16. MISCELLANEOUS COMMENTS:

Requester is aware of high-power radars operating on 902-928 MHz at WFF.

(b) (6)

SIGNATURE

DATE

NASA/WFF/Code 569

AFFILIATION

(b) (6)

NASA GSFC/WFF RANGE  
SUPPORT MANAGER/CONTACT

DATE

(b) (6)

(b) (6)

Aerosonde NA

DATE

WALLOPS FREQUENCY UTILIZATION MANAGEMENT WORKING GROUPFREQUENCY UTILIZATION REQUEST

IT IS REQUESTED THAT THE INDICATED FREQUENCY BE REVIEWED FOR USE AT THE GSFC/WFF.

1. FREQUENCY: 902-928 MHz
2. ORGANIZATION: Aerosonde North America
3. PROJECT: WUAVF
4. SPECIFY ALL COORDINATION REQUIREMENTS FOR AREAS OR ORGANIZATIONS OUTSIDE WALLOPS FLIGHT FACILITY: None
5. SPECIFY ALL COORDINATION REQUIREMENTS FOR AREAS OR ORGANIZATIONS WITHIN WALLOPS FLIGHT FACILITY (NASA OR TENANTS): Routine
6. STATION CLASS: NAV
7. BANDWIDTH/EMISSION: 350K00F1D
8. IF A FREQUENCY BAND IS REQUESTED, DOES SYSTEM OPERATE ON DISCRETE FREQUENCIES IN THE BAND, SPREAD SPECTRUM, FREQUENCY HOPPING, OR HOW? Frequency Hoping Spread Spectrum.
9. ORGANIZATION/PROJECT CONTACT: (b) (6)
10. CONTACT PHONE NUMBER: (757) 854-4620/4618  
WFF ext. 1435  
WFF ext. 1665
11. DESCRIPTION OF HOW FREQUENCY WILL BE USED, METHOD OF OPERATION, ETC.: Frequencies in the specified band will be used for transmitting from a UAV(s) to a ground station for downlinking data during test/operations.
12. PERIOD OF USAGE, (INCLUDE OVERALL TIME FRAME, DAYS/WEEK, HOURS/DAY OF PROJECTED USAGE OR OTHER NARRATIVE DESCRIPTION): Starting NET May 24, 2004. Will be used indefinitely and occasionally as scheduled. Will start with flights lasting about 5 hours and eventually as long as 30 hours/flight, 3 flights per week, 400-500 hours per year.

File No. 647  
April 1993

## 13. TRANSMITTER DATA

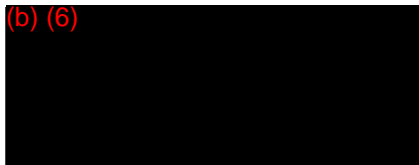
- A. NOMENCLATURE: Microhard Systems Inc. Model MHX-910
- B. LOCATION:  
Bldg. N-159 (Lab or just outside bldg.) (tests)  
Main Base runways/airspace (operations)  
UAV runway on Wallops Island south end/airspace (operations)
- C. TRANSMITTER PEAK POWER OUTPUT: 1 Watt
- D. TRANSMITTER AVERAGE POWER OUTPUT: 1 Watt
- E. PULSE WIDTH: NA
- F. MAXIMUM DUTY CYCLE: NA
- G. PULSE REPETITION FREQUENCY: NA
- H. STABILITY: NAV
- I. ANTENNA TYPE: omni
- J. ANTENNA HEIGHT ABOVE GROUND:  
~2-6 Ft. (in or near N-159)  
~2 to 20,000 (Main Base runways/airspace)  
~2 to 20,000 (UAV runway on WI south end/airspace)
- K. ANTENNA POLARIZATION: linear
- L. ANTENNA GAIN: 2.5 dBi
- M. ANTENNA, FIXED OR ROTATABLE: Fixed
- N. ANTENNA, BEAM WIDTH - A2: 360° - omni
- O. ANTENNA, BEAM WIDTH - EL: 180° - omni
- P. FIXED ANTENNA DIRECTION OF RADIATION: NAP - omni
- Q. TRANSMISSION SYSTEM ATTENUATION LOSSES: Negligible
- R. ANTENNA LATITUDE AND LONGITUDE:  
~37° 56' 00"N; 75° 28' 21"W (in or near N-159)  
~37° 56' 27"N; 75° 27' 44"W (center of triangle between Main  
Base runways or in radius approx. 1 mile from this location)  
~37° 49' 42"N; 75° 29' 38"W (UAV runway on WI south end)

## 14. RECEIVER DATA NAV

- A. NOMENCLATURE:
- B. LOCATION:
- C. STABILITY:
-

- D. SENSITIVITY:
- E. ANTENNA TYPE:
- F. ANTENNA POLARIZATION:
- G. ANTENNA GAIN:
- H. ANTENNA, FIXED OR ROTABLE:
- I. ANTENNA, BEAM WIDTH - AZ:
- J. ANTENNA, BEAM WIDTH - EL:
- K. FIXED ANTENNA DIRECTION OF PATTERN:
- L. ANTENNA LATITUDE AND LONGITUDE:
15. HAS FREQUENCY ALREADY BEEN ASSIGNED TO ORGANIZATION BY NTIA OR FCC FOR AREA IN WHICH IT WILL BE USED? None needed. (Part 15)
16. MISCELLANEOUS COMMENTS:  
Requester is aware of high-power radars operating on 902-928 MHz at WFF.

(b) (6)



SIGNATURE

6/2/04

DATE

NASA/WFF/Code 569  
AFFILIATION

(b) (6)

  
NASA GSFC/WFF RANGE  
SUPPORT MANAGER/CONTACT

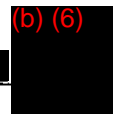
5-14-04

DATE

(b) (6)

  
Aerosonde/AeNA

(b) (6)



5/28/04

DATE

(b) (6)

Request FGR115WC ANA.doc

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WALLOPS FREQUENCY UTILIZATION MANAGEMENT WORKING GROUPFREQUENCY UTILIZATION REQUEST

IT IS REQUESTED THAT THE INDICATED FREQUENCY BE REVIEWED FOR USE AT THE GSFC/WFF.

1. FREQUENCY: 902-928 MHz
2. ORGANIZATION: AAI Corporation
3. PROJECT: SUAS
4. SPECIFY ALL COORDINATION REQUIREMENTS FOR AREAS OR ORGANIZATIONS OUTSIDE WALLOPS FLIGHT FACILITY: None
5. SPECIFY ALL COORDINATION REQUIREMENTS FOR AREAS OR ORGANIZATIONS WITHIN WALLOPS FLIGHT FACILITY (NASA OR TENANTS): Routine
6. STATION CLASS: NAV
7. BANDWIDTH/EMISSION: 230K00F1D
8. IF A FREQUENCY BAND IS REQUESTED, DOES SYSTEM OPERATE ON DISCRETE FREQUENCIES IN THE BAND, SPREAD SPECTRUM, FREQUENCY HOPPING, OR HOW? Frequency Hoping Spread Spectrum.
9. ORGANIZATION/PROJECT CONTACT: (b) (6)
10. CONTACT PHONE NUMBER: AAI CORP (WFF)/\*4632  
AAI Corp/(410) 628-6770  
WFF PM/\*1665
11. DESCRIPTION OF HOW FREQUENCY WILL BE USED, METHOD OF OPERATION, ETC.: Frequencies in the specified band will be used for transmitting from a ground station to a UAV(s) for uplinking commands during tests/operations.
12. PERIOD OF USAGE, (INCLUDE OVERALL TIME FRAME, DAYS/WEEK, HOURS/DAY OF PROJECTED USAGE OR OTHER NARRATIVE DESCRIPTION): SUAS Series # 2 flight start NET March 28, 2008, or as rescheduled. There are plans for continue occasional and indefinite use.

File No.  
April 1993

## 13. TRANSMITTER DATA

- A. NOMENCLATURE: Freewave Technologies Model FGR115WC
- B. LOCATION:
  - Bldg. D-1 Hangar area or just outside hangar (tests)
  - Near Main Base runways (operations)
  - Island UAV runway (operations)
- C. TRANSMITTER PEAK POWER OUTPUT: 1 Watt
- D. TRANSMITTER AVERAGE POWER OUTPUT: 1 Watt
- E. PULSE WIDTH: NA
- F. MAXIMUM DUTY CYCLE: NA
- G. PULSE REPETITION FREQUENCY: NA
- H. STABILITY: NAV
- I. ANTENNA TYPE: Omni
- J. ANTENNA HEIGHT ABOVE GROUND:
  - ~6 Ft. (in or near Bldg. D-1)
  - ~6 Ft. (near Main Base runways)
  - ~15 Ft. (UAV runway)
- K. ANTENNA POLARIZATION: Vertical
- L. ANTENNA GAIN:
- M. ANTENNA, FIXED OR ROTATABLE: Fixed - omni
- N. ANTENNA, BEAM WIDTH - AZ: 360° - omni
- O. ANTENNA, BEAM WIDTH - EL: 180° - omni
- P. FIXED ANTENNA DIRECTION OF RADIATION:
- Q. TRANSMISSION SYSTEM ATTENUATION LOSSES:
- R. ANTENNA LATITUDE AND LONGITUDE:
  - ~37° 56' 00"N; 75° 28' 21"W (in or near N-159)
  - ~37° 56' 27"N; 75° 27' 44"W (center of triangle between Main Base runways or in radius approx. 1 mile from this location)
  - ~37° 56' 13"N; 75° 28' 12"W (ACC)
  - ~37° 49' 57"N; 75° 29' 19"W (Bldg. Z-40)

## 14. RECEIVER DATA NAV

- A. NOMENCLATURE:
- B. LOCATION:



(b) (6)

Request FGR115WC ANA.doc

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- C. STABILITY:
- D. SENSITIVITY:
- E. ANTENNA TYPE:
- F. ANTENNA POLARIZATION:
- G. ANTENNA GAIN:
- H. ANTENNA, FIXED OR ROTATABLE:
- I. ANTENNA, BEAM WIDTH - AZ:
- J. ANTENNA, BEAM WIDTH - EL:
- K. FIXED ANTENNA DIRECTION OF PATTERN:
- L. ANTENNA LATITUDE AND LONGITUDE:
15. HAS FREQUENCY ALREADY BEEN ASSIGNED TO ORGANIZATION BY NTIA  
OR FCC FOR AREA IN WHICH IT WILL BE USED? No License needed (Part  
15).
16. MISCELLANEOUS COMMENTS:  
Requester is aware of high-power radars operating on 902-928 MHz  
at WFF.

(b) (6)

SIGNATURE

DATE

NASA/WFF/Code 569

AFFILIATION

(b) (6)

NASA GSFC/WFF RANGE  
SUPPORT MANAGER/CONTACT

DATE

(b) (6)

Aerosonde/AAIC

DATE

WALLOPS FREQUENCY UTILIZATION MANAGEMENT WORKING GROUP

FREQUENCY UTILIZATION REQUEST

IT IS REQUESTED THAT THE INDICATED FREQUENCY BE REVIEWED FOR USE AT THE GSFC/WFF.

1. FREQUENCY: 310-390 MHz
2. ORGANIZATION: ~~Aerospace North America~~ AAI (b) (6)
3. PROJECT: WUAVF/TIER II
4. SPECIFY ALL COORDINATION REQUIREMENTS FOR AREAS OR ORGANIZATIONS OUTSIDE WALLOPS FLIGHT FACILITY: None
5. SPECIFY ALL COORDINATION REQUIREMENTS FOR AREAS OR ORGANIZATIONS WITHIN WALLOPS FLIGHT FACILITY (NASA OR TENANTS): Routine
6. STATION CLASS: NAV
7. BANDWIDTH/EMISSION: 280K00F1D (Fast Mode); 25K00F1D (Slow Mode)
8. IF A FREQUENCY BAND IS REQUESTED, DOES SYSTEM OPERATE ON DISCRETE FREQUENCIES IN THE BAND, SPREAD SPECTRUM, FREQUENCY HOPPING, OR HOW? Can operate in Fixed Frequency or Frequency Hopping.
9. ORGANIZATION/PROJECT CONTACT: (b) (6)
10. CONTACT PHONE NUMBER: AAI (b) (6) WFF /\*4632  
AAI (b) (6) WFF /\*(410) 628-6770  
(b) (6) WFF PM /\*1033
11. DESCRIPTION OF HOW FREQUENCY WILL BE USED, METHOD OF OPERATION, ETC.: Frequency(ies) in the specified band will be used for transmitting from a ground station to a UAV(s) for uplinking commands during tests/operations. When in frequency hopping mode it can hop in up to 50 discrete frequencies.
12. PERIOD OF USAGE, (INCLUDE OVERALL TIME FRAME, DAYS/WEEK, HOURS/DAY OF PROJECTED USAGE OR OTHER NARRATIVE DESCRIPTION): Starting with Phase 1 NET August 28 and through September 22, 2006. There are plans for continue occasional and indefinite use. Will start with flights lasting about 4 hours and eventually as long as 30 hours/flight, 3 flights per week, 400-500 hours per year.

File No. 694  
April 1993

13. TRANSMITTER DATA

- A. NOMENCLATURE: Microhard Systems Inc. Model MHX-320
- B. LOCATION:
  - Bldg. D-1/N104 (ANA Hangar area or just outside hangar) (tests)
  - near Main Base runways (operations)
  - Island UAV runway (operations)
- C. TRANSMITTER PEAK POWER OUTPUT: 1 Watt
- D. TRANSMITTER AVERAGE POWER OUTPUT: 1 Watt
- E. PULSE WIDTH: NA
- F. MAXIMUM DUTY CYCLE: NA
- G. PULSE REPETITION FREQUENCY: NA
- H. STABILITY: 1.5 ppm
- I. ANTENNA TYPE: Dipole
- J. ANTENNA HEIGHT ABOVE GROUND:
  - ~5 Ft. (in or near Bldg. D-1)
  - ~6 Ft. (near Main Base runways)
  - ~15 Ft. (UAV runway)
- K. ANTENNA POLARIZATION: Horizontal
- L. ANTENNA GAIN: 1.5 dBi min
- M. ANTENNA, FIXED OR ROTABLE: Fixed
- N. ANTENNA, BEAM WIDTH - AZ: 60°
- O. ANTENNA, BEAM WIDTH - EL: 180° "omni"
- P. FIXED ANTENNA DIRECTION OF RADIATION: N/A
- Q. TRANSMISSION SYSTEM ATTENUATION LOSSES: 5 dB max
- R. ANTENNA LATITUDE AND LONGITUDE:
  - ~37° 56' 28"N; 75° 28' 14"W (in or near D-1)
  - ~37° 56' 27"N; 75° 27' 44"W (center of triangle between Main Base runways or in radius approx. 1 mile from this location)
  - ~37° 49' 45"N; 75° 29' 38"W (UAV Runway)

14. RECEIVER DATA      N/A

- A. NOMENCLATURE:
- B. LOCATION:
- C. STABILITY:

- C. STABILITY:
- D. SENSITIVITY:
- E. ANTENNA TYPE:
- F. ANTENNA POLARIZATION:
- G. ANTENNA GAIN:
- H. ANTENNA, FIXED OR ROTATABLE:
- I. ANTENNA, BEAM WIDTH - AZ:
- J. ANTENNA, BEAM WIDTH - EL:
- K. FIXED ANTENNA DIRECTION OF PATTERN:
- L. ANTENNA LATITUDE AND LONGITUDE:
15. HAS FREQUENCY ALREADY BEEN ASSIGNED TO ORGANIZATION BY NTIA OR FCC FOR AREA IN WHICH IT WILL BE USED? No. A RFA will be requested from NTIA.
16. MISCELLANEOUS COMMENTS:  
Requester was made aware of potential non-conforming and NIB status prior and even after obtaining a RFA.

(b) (6)

SIGNATURE

DATE

NASA/WFF/Code 569  
AFFILIATION

*See Attached!*

(b) (6)

NASA GSFC/WFF RANGE  
SUPPORT MANAGER/CONTACT

DATE

(b) (6)

DATE

- C. STABILITY:
- D. SENSITIVITY:
- E. ANTENNA TYPE:
- F. ANTENNA POLARIZATION:
- G. ANTENNA GAIN:
- H. ANTENNA, FIXED OR ROTATABLE:
- I. ANTENNA, BEAM WIDTH - AZ:
- J. ANTENNA, BEAM WIDTH - EL:
- K. FIXED ANTENNA DIRECTION OF PATTERN:
- L. ANTENNA LATITUDE AND LONGITUDE:
15. HAS FREQUENCY ALREADY BEEN ASSIGNED TO ORGANIZATION BY NTIA OR FCC FOR AREA IN WHICH IT WILL BE USED? No. A RFA will be requested from NTIA.
16. MISCELLANEOUS COMMENTS:  
Requester was made aware of potential non-conforming and NIB status prior and even after obtaining a RFA.

(b) (6)

SIGNATURE

DATE

(b) (6)

9/12/06  
DATE

SUPPORT MANAGER/CONTACT

(b) (6)

Aerospace/ANA

AAI

(b) (6)

DATE

## 13. TRANSMITTER DATA

- A. NOMENCLATURE: Microhard Systems Inc. Model MHX-320
- B. LOCATION: UAV to test/stage from:  
Bldg. D-1/N104 (ANA Hangar area or just outside hangar) (tests)  
near Main Base runways (operations)  
Island UAV runway (operations)
- C. TRANSMITTER PEAK POWER OUTPUT: 1 Watt
- D. TRANSMITTER AVERAGE POWER OUTPUT: 1 Watt
- E. PULSE WIDTH: NA
- F. MAXIMUM DUTY CYCLE: NA
- G. PULSE REPETITION FREQUENCY: NA
- H. STABILITY: 1.5 ppm
- I. ANTENNA TYPE: omni
- J. ANTENNA HEIGHT ABOVE GROUND:  
~2-6 Ft. (in or near Bldg. D-1)  
~2 to 20,000 (Main Base runways/airspace)  
~2 to 20,000 (UAV runway on WI south end/airspace)
- K. ANTENNA POLARIZATION: linear
- L. ANTENNA GAIN: 2 dB min
- M. ANTENNA, FIXED OR ROTABLE: Fixed
- N. ANTENNA, BEAM WIDTH - AZ: 360°
- O. ANTENNA, BEAM WIDTH - EL: 180°
- P. FIXED ANTENNA DIRECTION OF RADIATION: NAP
- Q. TRANSMISSION SYSTEM ATTENUATION LOSSES: 1 dB
- R. ANTENNA LATITUDE AND LONGITUDE:  
~37° 56' 28"N; 75° 28' 14"W (in or near D-1)  
~37° 56' 27"N; 75° 27' 44"W (center of triangle between Main  
Base runways or in radius approx. 1 mile from this location)  
~37° 49' 45"N; 75° 29' 38"W (UAV Runway)

## 14. RECEIVER DATA NAV

- A. NOMENCLATURE:
- B. LOCATION:

- D. SENSITIVITY:
- E. ANTENNA TYPE:
- F. ANTENNA POLARIZATION:
- G. ANTENNA GAIN:
- H. ANTENNA, FIXED OR ROTATABLE:
- I. ANTENNA, BEAM WIDTH - AZ:
- J. ANTENNA, BEAM WIDTH - EL:
- K. FIXED ANTENNA DIRECTION OF PATTERN:
- L. ANTENNA LATITUDE AND LONGITUDE:
15. HAS FREQUENCY ALREADY BEEN ASSIGNED TO ORGANIZATION BY NTIA OR FCC FOR AREA IN WHICH IT WILL BE USED? No. A RFA will be requested from NTIA.
16. MISCELLANEOUS COMMENTS:  
Requester was made aware of potential non-conforming and NIB status prior and even after obtaining a RFA.

(b) (6)

SIGNATURE

NASA/WFF/Code 569  
AFFILIATION

DATE

9/11/06

See  
attached! →

(b) (6)

NASA GSFC/WFF RANGE  
SUPPORT MANAGER/CONTACT

DATE

(b) (6)

9/10/06  
DATE

Sep. 12. 2006 11:12AM

WFF CODE 830

No. 0312

r. 4

- D. SENSITIVITY:
- E. ANTENNA TYPE:
- F. ANTENNA POLARIZATION:
- G. ANTENNA GAIN:
- H. ANTENNA, FIXED OR ROTABLE:
- I. ANTENNA, BEAM WIDTH - AZ:
- J. ANTENNA, BEAM WIDTH - EL:
- K. FIXED ANTENNA DIRECTION OF PATTERN:
- L. ANTENNA LATITUDE AND LONGITUDE:
15. HAS FREQUENCY ALREADY BEEN ASSIGNED TO ORGANIZATION BY NTIA OR FCC FOR AREA IN WHICH IT WILL BE USED? No. A RFA will be requested from NTIA.
16. MISCELLANEOUS COMMENTS:  
Requester was made aware of potential non-conforming and NIB status prior and even after obtaining a RFA.

(b) (6)

SIGNATURE

DATE

(b) (6)

NASH CSFC/NTI REVIEW  
SUPPORT MANAGER/CONTACT

DATE

9/12/06

(b) (6)

DATE



## FREQUENCY UTILIZATION REQUEST

IT IS REQUESTED THAT THE INDICATED FREQUENCY BE REVIEWED FOR USE AT THE GSFC/WFF.

1. FREQUENCY: 310-390 MHz
2. ORGANIZATION: ~~Aerosonde North America~~ **AAI** (b) (6)
3. PROJECT: WUAVF/TIER II
4. SPECIFY ALL COORDINATION REQUIREMENTS FOR AREAS OR ORGANIZATIONS OUTSIDE WALLOPS FLIGHT FACILITY: None
5. SPECIFY ALL COORDINATION REQUIREMENTS FOR AREAS OR ORGANIZATIONS WITHIN WALLOPS FLIGHT FACILITY (NASA OR TENANTS): Routine
6. STATION CLASS: NAV
7. BANDWIDTH/EMISSION: 280K00F1D (Fast Mode); 25K00F1D (Slow Mode)
8. IF A FREQUENCY BAND IS REQUESTED, DOES SYSTEM OPERATE ON DISCRETE FREQUENCIES IN THE BAND, SPREAD SPECTRUM, FREQUENCY HOPPING, OR HOW? Can operate in Fixed Frequency or Frequency Hopping.
9. ORGANIZATION/PROJECT CONTACT: (b) (6)
10. CONTACT PHONE NUMBER: ~~ANA (410) 627-4632~~ **AAI** (b) (6)  
~~ANA/ (410) 628-6770~~ **AAI** (b) (6)  
~~NET FM/\*1033~~
11. DESCRIPTION OF HOW FREQUENCY WILL BE USED, METHOD OF OPERATION, ETC.: Frequency(ies) in the specified band will be used for transmitting from a UAV(s) to a ground station for control/downlinking data during test/operations. When in frequency hopping mode it can hop in up to 50 discrete frequencies.
12. PERIOD OF USAGE, (INCLUDE OVERALL TIME FRAME, DAYS/WEEK, HOURS/DAY OF PROJECTED USAGE OR OTHER NARRATIVE DESCRIPTION): Starting with Phase 1 NET August 28 and through September 22, 2006. There are plans for continue occasional and indefinite use. Will start with flights lasting about 4 hours and eventually as long as 30 hours/flight, 3 flights per week, 400-500 hours per year.

File No. 695  
April 1993