ANNEX A TO CHAPTER FOUT! VERWIJZINGSBRON NIET GEVONDEN.:

FREQUENCY SUPPORTABILITY FORMS

The NATO FMSC forms for FS request is provided on following pages as FS Forms 1, FS Forms 2, FS Forms 3 and FS Forms 4 including instructions. The forms comprise entries which are intended to cater for a wide variety of stations. Additionally, national forms may be required by a number of host nations.

Those personnel indicated under paragraph **Fout! Verwijzingsbron niet gevonden.**, in close co-operation with the originator, are obliged to fill in these forms appropriately in order to provide as much information as required by any frequency authority allowing thorough assessments of the impact to the host nation and, finally, comprehensive handling of complicated requests.

NOTE: Up through the end of 2003 the only FS request format to be used is the forms reproduced at annex A to this chapter. These forms are reproduced from the DD Form 1494. Beginning in 2004 and when all Nations are capable of exchanging data in SMADEF (which is planned for implementation in ARCADE and a number of National tools), SMADEF will become the sole format for FS request and comments.

SMADEF will allow automatic recording of all FS requests and answers in the MRFL central database, which will be distributed to the Nations and Commands together with the assignment and allotment data. In the interim period, both formats will be accepted.

This annex will be removed from this document at the end of the interim period.

CLASSIFICATION			
REQUEST FOR FREQUENCY SUP DEMANDE DE DISPONIBILITE DE		DATE	PAGE
TO-A::	FROM (Office making request)		1
Dutch Army	DE (Bureau qui présente la demande):		
1-EQUIPMENT NOMENCLATURE ANDOR MODEL NUMBER	Teal Drones, Inc. (A subs	idiary of Redca	t Holdings)
1-EQUIPMENT NOMEN.LATURE AND/OR MODEL NUMBER DESIGNATION DU MATERIELET NUMERO DE MODELE			
GETAC-2.3			
2-STATUS OF SUPPORTABILITY REQUEST (Check one) CENTRE DE DEMANDE (Cochez une seule case)			
X EXPERIMENTAL RESEARCH OR EXPLORATORY DEVELOPMENT RECHERCHE EXPERIMENTALE OU DEVELOPPEMENT PRELIMINAIRE ADVANCED OR ENC DEVELOPMENT DEVELOPPEMENT INGENIERIE	<i>UI</i>	PERATIONAL TILISATION OPERATION	NELLE
1 - EQUIPMENT USAGE - UTILISATION	N DU MATERIEL		
3-FUNCTION AND PURPOSE - FONCTION ET BUT			
Air surveillance			
4-METHOD OF OPERATION-MODE DE FONCTIONNEMENT Air surveillance — line of sight			
S-EXTENT OF USE - EXTENSION DE L'UTILISATION			
6-OPERATIONAL ENVIRONMENT - MILIEU D'UTILLISATION Fixed demonstration during Fire Support Symposium			
7-GEOGRAPHICAL AREA OF EXPERIMENTAL RESEARCH OR DEVELOPMENTAL EVA REGION GEOGRAPHIQUE DE LA RECHERCHE EXPERIMENTALE OU DE L'EVALUATION			
8-GEOGRAPHICAL AREA OF OPERATIONAL USE - REGION GEOGRAPHIQUE DE L'UTIL	ISATION OPERATIONNELLE		
World wide			
9-NUMBER OF EQUIPMENTS IN INITIAL PHASE – NOMBRE D'APPAREILS PENDANT LA F	PHASE INITIALE		
10-NUMBER OF THESE EQUIPMENTS PLANNED FOR OPERATIONAL USE- $\ensuremath{\textit{NOMBRED}}$ $\ensuremath{\text{TBC}}$	APPAREILS PREVU POUR L'UTILISATION OF	PERATIONNELLE	
11- NUMBER OF THESE EQUIPMENTS OPERATING SIMULTANEOUSLY IN THE SAME IN NOMBRE D'APPAREILS FONCTIONNANT SIMULTANEMENT DANS LE MEME MILIEU ELI 1			
12-TARGET DATE FOR THE START AND END OF EXPERIMENTAL OR DEVELOPMENT. DATE PREVUE POUR LE COMMENCEMENT ET LA FIN DE L'EVALUATION EXPERIMENT		EMENT	
13-TARGET DATE FOR OPERATIONAL USE - DATE PREVUE D'UTILISATION OPERATION	NELLE		
14-PREVIOUS APPLICATION NUMBER - NUMERO DE L'ANCIEN FORMULAIRE			

FS Forms 1

RELATED

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CLASSIFICATION

INSTRUCTIONS FOR COMPLETING FREQUENCY SUPPORTABILITY FORM

1. Type in classification and downgrading stamp and insert nomenclature and equipment type, e.g., AN/FPS-16 Instrumentation Radar. Indicate by check mark whether for Experimental Research or Exploratory Development. Advanced or Engineering Development, or Operational. The classification of the title will be appropriately indicated. Classified information contained in the completed form will be indicated either as a general statement in the Remarks paragraph such as "The purpose, functions ... are classified" or by an enumeration of the applicable paragraphs and subparagraphs with their classification, or the classification may be marked alongside each entry on the form.

EXPERIMENTAL RESEARCH OR EXPLORATORY DEVELOPMENT

- 2.a. To test the feasibility of new techniques or concepts of natural phenomena and environment and efforts towards solution of problems in the physical behavioural and social sciences that have no direct military application.
- b. To test the feasibility of adapting conventional techniques to new purposes prior to projection into development planning includes all effort directed toward solution of specific military problems, short or major development projects.

ADVANCED OR ENGINEERING DEVELOPMENT

- a. To develop equipment which have moved into the development of hardware for experimental or operational test.
- b. To modify existing operational equipment for improved performance.
- To develop programs being engineered for service use but which have not yet been approved for production and service deployment.
- d. To continue development of equipment/systems that have been approved for production and service use.

OPERATIONAL

To operate and test equipment which have passed the development phase and are planned for operational use for:

- (1) Tactical and training purposes.
- (2) Non-tactical purposes such as for test range instrumentation purposes.
- 3. Describe the function and purpose to be performed as specifically as possible. For example, Guided Missile Control Radar; Troposcatter Communications equipment; provides acquisition and tracking information; short range communications; telemetry for quality control.
- 4. Describe the method of operation. For example: Radar activates beacon transponder in missile with coded pulses; Beacon provides missile track; Radar also transmits coded pulse command signals to missile beacon receiver for guidance.
- 5. Describe operational extent of usage. For example: Continuous or intermittent-expected duty cycle during mission; expected number of hours of operation per day or other appropriate time period; Indicate any conditions governing intermittent use; When appropriate, describe mission phase during which system operates.
- 6. Give brief description of ultimate operational environment. For example: Amphibious landing operations; Defence of strategic target area; sea areas; field army. Provide any additional environment factors pertinent to a meaningful assessment of electromagnetic compatibility such as: specific vehicle/platform types; expected mobility; or other factors affecting the environment variability.
- State geographical area used for experimental research or development.
- 8. State geographical area for potential use. Provide latitude and longitude of centre of operational area and radius of operation in kilometres.
- 9. List number of equipment's planned for experimental or developmental phase.
- 10. List number of equipment's planned for operational use.
- 11. Indicate maximum number of these equipment's which will be operating simultaneously in the same environment. For example: 3 missiles will be flown simultaneously in an operating area.
- 12. Indicate the dates on which it is expected that experimental or developmental phase will start and finish.
- 13. Indicate target date for operational use as defined in item 6.

CLASSIFICATION		
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TRANSMITTER EQUIPMENT CHARACTERISTICS CARACTERISTIQUES DU MATERIEL EMETTEUR

PAGE	

1. Nomenclature, Manufacturer's Model No Désignation, no de modèle du fabricant:	2. Manufacturer's Name - Nom du fabricant:
pMDDL2350 AES-256	Microhard Corporation
3. Transmitter installation - Installation émettrice: Class-1 Unmaned Air Vehicle (Quad Rotor)	4. Transmitter Type - Type d'émetteur: Digital Wireless Modem
5. Tuning Range - Gamme d'accord: EU Aeronautical Band 2.304 — 2.39 GHz	6. Method of Tuning - Méthode d'accord: Digital syntheziser
7. RFChanneling Capability - Répartition des voies RF:	8. Emission Designator(s) - Identificateur(s) d'émission:
4MHz or 8MHz	4M23D1D or 8M38D1D
9. Frequency Tolerance - Tolérance de fréquence:	
20 ppm	
10. Filter employed - Filtre utilisé: Yes - Otá X No - Non	12. Emission Bandwidth - Calculated X Measured Largeur de bande de l'émission: Calculée Mesurée
11. Spread Spectrum - Spectre étalé: Yes - Oui X No - Non	(a) -3 dB 3.8 - 7.6 MHz (b) -20 dB 4.4 - 8.8 MHz
13. Maximum Bit Rate - Debit binaire maximal: 64QAM_5/8 27.8Mbps	(c) 40dB 5.5-11.2 MHz (d) -60dB 8.5-18.2 MHz
14. Modulation Techniques and Coding - Techniques de modulation et de codage:	(e) OC-BW 4.5-8.9 MHz
	Larg. de bande occupée
COFDM (Coded OFDM)	15. Maximum modulation Frequency - Fréquence de modulation et de codage:
COLDINI (CORCE OLDINI)	8 Mhz
16. Pre-emphasis - Préaccentuation: Yes - Oui ? No - Non ?	17. Deviation Ratio - Rapport de déviation: TBD
18. Pulse Characteristics - Caractéristiques des impulsions:	19. Power - Puissance:
Unknown. Information is not provided by supplier.	
(a) Data Enfo de nformano	
(a) Rate - Fréq. de récurrence (b) Width - Durée	(a) Mean-Moyenne Approx 22.5 dBm
(c) Rise Time - Telmps de montée	(a) Nean-Woyelle Approx 22.5 dBm (b) PEP-Encrête Approx 28.15 dBm
(d) Fall Time - Temps de descente	(6) PEP-Encrete Approx 20.13 dbiii
(e) Comp Ratio - Rapport de comp.	20. Output Device - Dispositif de sortie:
Larg. de bande occupée	Microhard Pico Modem
21. Harmonic Level - Niveau des harmoniques:	22. Spurious Level - Niveau du rayonnement non essentiel:
21.1 Rullrone LEVA-1 ween the strangers.	22. Spanoas Level - reveal an rayonnement non essentiel.
(a) 2nd-2e <-14 dB (Below Acceptable Limit)	-12.89dBm in non-restricted Frequency Bands (Conducted)
(b) 3rd-3e <-19.5 dB (Below Acceptable Limit)	1 7
(c) Other-Autres None detected	
(c) Out Thurs Polic deceded	
24. Remarks - Remarques:	

CLASSIFICATION

TRANSMITTER EQUIPMENT CHARACTERISTICS

- Enter the government assigned equipment designation. If above is not available, enter the manufacturer's model number, e.g. MIT502, and complete item 2. If above is not available enter a short descriptive title, e.g. ATS-6 telemetry transmitter.
- 2. Enter if available. If a manufacturer's model number is listed in item 1, this item must be completed.
- 3. List specific type(s) of vehicle(s), ship(s), plane(s) or building(s) etc. where the transmitter(s) will be installed.
- 4. Enter the generic class of the transmitter, e.g. Frequency scan, Scan While Track Radar, Monopulse Tracker, AM or PM communications. In addition, for radar enter the radar type e.g. Non-FM Pulse, FM-Pulse, Frequency Hopping, CW or FM-CW.
- 5. Enter the frequency range through which the transmitter is capable of being tuned, e.g. 225-400 MHz. For equipment designed to operate only at a single frequency, enter the frequency indicate units e.g. kHz, MHz or GHz.
- 6. Enter the method of tuning, e.g. crystal, synthesiser or cavity. If the equipment is not readily tuneable in the field. Indicate in Remarks (item 23) the complexity factors such as skill levels involved, major assemblies involved, time required and location (factory or depot) where equipment is to be tuned.
- 7. Describe the RF channelling capability. For uniformly spaced channels, enter the centre frequency of the first channel and channel spacing e.g. first channel 406MHz, 100kHz increments; for continuous tuning, enter the lowest frequency and the word "continuous"; for others, such as SSB or cases where channel selection is under software control, enter a detailed description in Remarks (23), e.g. degraded channels, internal hardwiring limitations or lockout capability for frequency hopping systems.
- 8. Enter the emission designator(s) including the necessary bandwidth for each designator e.g. 16K0F3E. For systems with a frequency hopping mode as well as a non-hopping mode, enter the emission designators for each mode. Identify each mode such as hopping or non-hopping.
- 9. Enter the frequency tolerance, i.e. the maximum departure of a transmitter from its assigned frequency after normal warm-up time has been allowed. Indicate the units in part per million (ppm) for all emission types except single side band, which shall be indicated in Hertz (Hz)
- 10. Check the appropriate box.
- 11. Check the appropriate box. If YES see instructions for item 14.
- 12. Enter the emission bandwidths for which the transmitter is designed at the -3, -20 and -60dB levels and the occupied bandwidth. The bandwidth at -40dB shall also be entered for pulse radar transmitters. The emission bandwidth is defined as that appearing at the antenna terminals and includes any significant attenuation contributed by filtering in the output circuit or transmission lines. Values of emission bandwidth specified should be indicated as calculated or measured by checking the appropriate block. Note that the occupied bandwidth (item 12(e)) is defined as the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5% of the total mean power radiated.
- 13. Enter the maximum information bit rate for digital equipment, in bits per second. If spread spectrum is used, enter the bit rate after encoding.
- 14. Describe in detail the modulation and/or coding techniques employed. For complex modulation schemes such as direct sequence spread spectrum, frequency hopping, frequency agile, provide information relating to hop rate, processing gain, clock rate, No of hop sets, No of frequencies per hop set, etc. If too lengthy, use item 23.
- 15. For frequency or phase-modulated transmitter, enter the maximum modulation or base band frequency. The frequency is assumed to be the frequency at -3dB point on the high frequency side of the modulator response curve. Indicate the units, e.g. Hz, kHz or MHz.
- 16. For frequency or phase modulated transmitter check the appropriate block to indicate whether pre-emphasis is available.
- 17. For frequency or phase modulated transmitter enter the deviation ratio computed with the formula:

Deviation ratio = <u>maximum frequency deviation</u> maximum modulation frequency

- 18. For pulse modulated transmitters
 - a. enter the pulse repetition rate in pulses per second (pps)
 - b. enter the pulse width at the half voltage levels in usec
 - c. enter the pulse rise time in microseconds (usec). This is the time duration for the loading edge of the voltage pulse to rise from 10% to 90% of its peak amplitude
 - d. enter the pulse fall time in microseconds (usec). This is the time duration for the training edge of the voltage pulse to fall from 90% to 10% of its peak amplitude
 - e. enter the maximum pulse compression ratio if applicable.
 - For coded pulse waveform see instructions for item 14.
- 19. Enter the mean power delivered to the antenna terminals for all AM and FM emissions or the peak envelope power (PEP) for all other classes of emissions. If there are any unique situations such as interrupted CW, provide details in Remarks (23). Indicate the units e.g. W
- 20. Enter a description of the device used in the transmitter output stage e.g. ceramic diode, reflex klystron, transistor or TWT.
- 21. Enter the harmonic level of the 2nd and 3rd harmonics in dB relative to the fundamental. Enter in item (c) the relative level in dB of the highest-powered harmonic above the 3rd.
- 22. Enter the maximum value of spurious emission in dB relative to the fundamental which occurs outside the -60dB point on the transmitter fundamental emission spectrum (item 12) and does not occur on a harmonic of the fundamental emission spectrum (item 12) and does not occur on a harmonic of the fundamental frequency. Indicate in kHz or MHz the location of the spurious from the fundamental frequency.
- 23. Remarks.

CLASSIFICATION		

RECEIVER EQUIPMENT CHARACTERISTICS CARACTERISTIQUES DU MATERIEL RECEPTEUR

PAGE	

Nomenclature, Manufacturer's Model No Désignation, no de modèle du fabricant: pMDDL2350 AES-256	Manufacturer's Name - Non du fabricant: Microhard Corporation
3. Receiver installation - Installation réceptrice: Embedded Integrated System on the Air Vehicle	4. Receiver Type - Type récepteur: Digital Receiver
5. Tuning Range - Gamme d'accord:: EU Aeronautical Band 2.304 – 2.39 GHz	6.Method of Tuning - <i>Méthode d'accord:</i> Localized Receiver Oscilartor
7. RFChanneling Capability - Répartition des voies RF: 4MHz or 8MHz	8. Emission Designator(s) - Identificateur(s) d'émission: 4M23D1D or 8M38D1D COFDM Modulated Receiver
9. Frequency Tolerance - Tolérance de fréquence: 20 ppm	
10. If Selectivity - Sélectivité FI:	11. RF Selectivity - Sélectivité RF: Calculated Measured
Unknown. Information is not provided by supplier.	
1st 2nd 3 rd	Unknown. Information is not provided by Calculée Mesurée supplier.
lère 2e 3e	(a)
(b) (c)	(b) (c)
12. If Frequency - Fréquence intermédiaire:	13. See instructions / Voir instructions
NA-Non-Superhetrodyne. (a) 1st - 1ère	
(b) 2nd-2e (c) 3rd-3e	14. See instructions / Voir instructions
15. Oscillator Tuned - Oscillateur accordé:	16. Maximum Bit Rate - <i>Débit binaire maximal</i> :
lst 2nd 3rd	~25Mpbs
(a) Above Tuned Frequency line 2e 3e	17. Sensibility - Sensibilité: (a) Sensibility - Sensibilité -81 to -99.5 dBm (b) Criteria - Critère Nat Known Fram Supplier (c) Noise Fig - Facteur de bruit Not Known Fram Supplier (d) Noise Temp - Temp, de bruit
18. De-emphasis - Désaccentuation: Not Known From Supplier Yes - Oui No - Non X	20. Spurious Rejection - <i>Rejet des fréquences parasites:</i> ~75 dB
19. Image Rejection - Rejet de fréquence image: ~75 dB	
21. Remarks-Remarques: Item 17 a: Sensitivity auto-negotiates and varies across the specified (-81 to-99.5 dBm) range depending on Operating Bandwidth and Modulation type and sambal rate used. This is autonegtiated based on receive signal amplitude, noise figure and bit error rate.	

CLASSIFICATION		

RECEIVER EQUIPMENT CHARACTERISTICS

- 1. Enter the alphanumeric equipment designation. If above is not available, enter the manufacturer's model number e.g. MIT502 and complete item 2. If above is not available, enter a short descriptive title e.g. GPS receiver. A separate receiver submission is required for each receiver in a complex system e.g. radar ECCM receivers.
- 2. Enter the manufacturer's name if available. If a manufacturer's model number is listed in item 1, this item must be completed.
- 3. List specific type(s) of vehicle(s), ship(s), plane(s) or building(s) etc. where the receiver(s) will be installed.
- 4. Enter the generic class e.g. Dual conversion super-heterodyne or homodyne.
- 5. Enter the frequency range through which the receiver is capable of being tuned e.g. 225-400 MHz. For equipment designed to operate only at a single frequency, enter this frequency. Indicate units: kHz, MHz or GHz.
- 6. Enter the method of tuning e.g. crystal, synthesiser or cavity. If the equipment is not readily tuneable in the field, indicate in Remarks (21), the complexity of tuning include complexity factors, such as skill levels involved, major assemblies involved, time required and location (factory or depot) where equipment is to be tuned.
- 7. Describe the RF channelling capability. For uniformly spaced channels, enter the centre frequency of the first channel and channel spacing e.g. first channel 408 MHz, 100 kHz increments, for continuous tuning, enter the lowest frequency and the words "continuous", for others, including cases where channel selection is under software control, enter a detailed description in Remarks (21).
- 8. Enter the emission designator(s) including the necessary bandwidth for each designator e.g. 16K0F3E. For systems with a frequency hopping mode as well as non-hopping modes, enter the emission designators for each mode.
- 9. Enter the frequency tolerance, i.e., the maximum departure of a receiver from its assigned frequency after normal warm-up time has been allowed. Indicate the units in parts per million (PPM) for all emission types except single side band, which shall be indicated in Hartz (Hz)
- 10. Enter the bandwidth for each IF stage at -3, -20 and -60dB levels. Indicate units, e.g. kHz or MHz.
- 11. Enter the bandwidth at -3, -20 and -60dB levels. The RF bandwidth includes any significant attenuation contributed by filtering in the input circuit or transmission line. Values of RF bandwidths specified should be indicated as calculated or measured by checking the appropriate block. Indicate units, e.g. kHz or MHz. Enter the pre-selection type, e.g. tuneable cavity.
- 12. Enter the tuned frequency of the 1st, 2nd and 3rd IF stages. Indicate units, e.g. kHz or MHz.
- 13. and 14. Intentionally left blank to match US form.
- 15. Check the appropriate block to indicate the location of the 1st, 2nd and 3rd oscillator frequencies with respect to the associated mixer input signal.
- 16. Where applicable, enter the maximum bit rate (BPS) that can be used. If spread spectrum is used, enter the bit rate after decoding. Describe any error detecting/correcting codes in Remarks (21).
- 17. a. enter the sensitivity in dBm.
 - b. specify criteria used, e.g. 12dB SINAD (signal + noise + distortion over noise + distortion)
 - c. if the receiver is used with terrestrial systems, enter the receiver noise figure in dB.
 - d. if the receiver is used with space or satellite earth stations, enter the receiver noise temperature in Kelvin.
- 18. For frequency modulated or phase modulated receivers indicate whether de-emphasis is available.
- 19. Enter the image rejection is the ratio of the image frequency signal level required to produce a specified output, to the desired signal level required to produce the same output.
- 20. Enter the spurious rejection in dB. Enter the single level of spurious rejection that the receiver meets of exceeds at all frequencies outside the -60dB IF bandwidth. Spurious rejection is the ratio of a particular out-of-band frequency signal level required to produce a specified output, to the desired signal level required to produce the same output.
- 21. Remarks.

CL ACCIDICATION		
CLASSIFICATION		

ANTENNA EQUIPMENT CHARACTERISTICS CARACTERISTIQUES DU MATERIEL D'ANTENNE

PAGE	

1. Transmitting Receiving Emission Réception	Transmitting and Receiving Emission et réception
2. Nomenclature, Manufacturer's Model No Désignation, no de modèle du fabricant:	3. Manufacturer's Name - Nom du fabricant:
Linx Technology custome design and specified by Teal Drones	Linx Technology / Teal Drones (Teal Part Number – 50138)
4. Frequency Range - Gamme de fréquences:	5. Type: Omni Directional, Sleved Monopole Antenna
Tuned for operation @ 2.304 – 2.39 GHz 6. Polarization:	7 Soon Champtonistics Commentation and Advances
6. Polarization - Polarization: Linear Vertically Polarized	7. Scan Characteristics – Caractéristiques de balayage:
8. Cain:	Not Fully Characterized
(a) Main Beam 3.0 dBi Peak Gain @ Horizontal Plane Vertically Polarized	(a) Type Omni Directional (b) Vertical Scan: Balayage vertical: (1) Max Elev ~60 Degrees (Estimated)
Faisceau principal (b) 1st Major Side Lobe 1er lobe latéral important ~ 1.7 dBi	Angle de site max. (2) Min Elev ~60 Degrees (Estimated) Angle de site min. (3) Scan Rate Continuous Vitesse de balayage
9. Beamwidh- <i>Largeur diufaisceau:</i> (a) Horizontal ~120 Degrees (++-60) from 90 degrees on the horizontal plane. (b) Vertical (Antenna is substantially Imnidirection)	(c) Horizontal Scan: Balayage horizontal: (1) Sector Scanned Secteur balayé (2) Scan Rate Vitesse de balayage (d) Sector Blanking Efficement de secteur Ves No No Non
21. Remarks-Remarques:	•
(a) ¼-Wave Sleeved Monopole (Wire Whip) Peak Gain 3.0 dBi Maximum return loss: -29dB @ ~2.34 GHz Radiation Efficiency: >/= 90% Impedance = 50 Ohm (b) There are two antennas present on the aircraft to support Multi-In Multi-Out transmission and reception. Both antennas are the same type/model.	

CLASSIFICATION

ANTENNA EQUIPMENT CHARACTERISTICS

- Check the appropriate block to indicate the type of antenna. For multi-antenna system, use one page for each antenna.
- 2. Enter the assigned alphanumeric equipment designation. If above is not available, enter the manufacturer's model number e.g. DS6558 and complete item 3. If above is not available, enter a short descriptive title e.g. ATS-6 Telemetry antenna.
- Enter the manufacturer's name if available. If a manufacturer's model number is listed in item 2, this item must be completed. 3.
- Enter the range of frequencies for which the antenna is designed. Indicate units e.g. kHz or MHz.
- 5. Enter the generic name or describe general technical features e.g. Horizontal, Log periodic, Cassegrain with polarisation twisting, Whip, Phased Array or Conformal Array.
- Enter the polarisation: if circular, indicate whether it is left or right hand.
- If this antenna scans, enter the type of scanning, e.g. vertical, horizontal, vertical and horizontal.
 - Vertical scan:
 - (1) enter the maximum elevation angle in degrees (positive or negative referenced to the horizontal) that the antenna can scan. (2) enter the minimum elevation angle in degrees (positive or negative referenced to the horizontal) that the antenna can scan.

 - (3) enter the vertical scanning rate in scans per minute.
 - Horizontal scan:
 - (1) enter the angular scanning range in degrees of the horizontal sector scanned.
 - (2) enter the horizontal scan rate in scans per minute.
 - Indicate if antenna is capable of being sector blanked. If yes, enter details in Remarks (10).
- 8.
- Enter the maximum gain in dB relative to an isotropic radiator (dBi).

 Enter the nominal gain of the 1st major side lobe in dBi and the angular displacement from the main beam in degrees.
- Enter the -3dB beam width in degrees.
- Use this item to describe any unusual characteristics of the antenna, particularly as they relate to the assessment of electromagnetic compatibility. Use this item to amplify or clarify any of the information provided above. In addition, enter the following information if applicable:
 - the front to back ratio in dB for directional antennas used in Radio Relay circuits.
 - for phased array antennas, enter:
 - (1) mode of operation, single or multiple beam;
 - (2) single beam parameters;
 - (3) multiple beam parameters:
 - (a) polarisation of each beam;
 - (b) gain of each beam;
 - (c) beam width of each beam;
 - (d) scan characteristics of each beam (refer to item 7).

