7.7	Applicant's telefax number/s:	
7.8	E-mail address of the designated contact	
	person:	

8. OTHER LICENCES HELD BY APPLICANT 8.1 Indicate whether the applicant holds An ECS or BS Licence. If so, provide details of the

expiry date of such licence.

8.2 A separate application to renew the applicant's ECS or BS Licence must be submitted to the Authority prior to the expiry of that Licence in terms of the applicable regulations.

9. FAILURE TO COMPLY WITH REQUIREMENTS

9.1 Provide details of any action taken in relation to the applicant by the Authority or any other person due to a breach or alleged breach by the licensee of the Act and related legislation.

9.2 Provide details of any finding by the Complaints and Compliance Committee against the applicant, as well as details of the sanction imposed by the Authority, if any.

10.1 S	Specify any undertakings which the applicant is prepared to make in order to promote
th	the objects of the Act, if its Licence is renewed.

11. LATE FILING OF APPLICATION 11.1 Indicate if this application is filed with the Authority within the time period specified in the Regulations: 11.2 Where this application is filed outside of this time period, set out the reasons for the late

	filing:
12.	GENERAL
12.1	Provide details of any matter which, in the applicant's view, the Authority should consider:
12.2	Attach a resolution authorising the person signing this application to sign this application, marked clearly as Annexure A of FORM B 2 .

The person signing the registration on behalf of the applicant must acknowledge as follows:

I acknowledge that the Authority reserves the right to have any Licence amended pursuant to this application set aside, should any material statement made herein, at any time, be found to be false.

Signed

(APPLICANT)

- 1. knows and understands the contents hereof;
- 2. has no objection to taking the prescribed oath or affirmation; and
- considers this oath or affirmation to be truthful and binding on his/her conscience.

COMMISSIONER OF OATHS

Name: Address: Capacity:

FORM C

APPLICATION TO TRANSFER A RADIO FREQUENCY SPECTRUM LICENCE

(See Regulation 10)

- Note: (a) Applicants must refer to the Electronic Communications Act, 2005 (Act No. 36 of 2005) ("the Act") and any regulations published under that Act with regard to the requirements to be fulfilled by applicants.
 - (b) Information required in terms of this Form which does not fit into the space provided may be included in an appendix attached to the Form. <u>Each appendix must be</u> <u>numbered with reference to the part of the Form.</u>
 - (c) Where any information in this Form does not apply to the applicant, the applicant must indicate that the relevant information is not applicable.

1.	PARTICULARS OF LICENCE	
1.1	Licence number:	
1.2	Nature of services authorised to be provided in terms of the Licence:	
1.3	Attach a copy of the Licence that is the su Licence must be marked clearly as ANNEX	

2.	PARTICULARS OF THE APPLICANT (LICENSEE)	
2.1	Full name of the applicant:	
2.2	Designated contact person:	
2.3	Applicant's street address:	
2.4	Applicant's principal place of business (if different from street address):	
2.5	Applicant's postal address:	
2.6	Designated contact person's tel. number/s:	
2.7	Designated contact person's telefax number/s:	

•

+

2.8	E-mail	address	of	designated	contact
	person	l.			

3.	PARTICULARS OF TRANSFEREE	
3.1	Full name of transferee:	
3.2	Designated contact person:	
3.3	Transferee's street address:	
3.4	Transferee's principal place of business (if different from street address):	
3.5	Transferee's postal address:	
3.6	Telephone number/s:	(se
3.7	Telefax number/s:	
3.8	E-mail address of the designated contact person:	

4.	LEGAL FORM OF TRANSFEREE
4.1	Indicate if the transferee is:
	(i) a natural person
	(ii) a partnership
	(iii) a juristic person
	(iv) other (specify)
4.2	If the transferee is a natural person or a partnership:
4.2.1	Provide the identity number of the transferee or each partner in the transferee:
4.2.2	Attach a certified copy of the identity document of the transferee or certified copies of the
	identity document of each partner in the transferee marked clearly as Annexure A of
	FORM C 2.
4.3	If the transferee is a juristic person:
4.4. I	ndicate the legal form of the transferee (e.g. private company incorporated in terms of the
	Companies Act, 1973):
4.5 F	Registration number of transferee:

- 4.6 Attach certified copies of the transferee's certificate of incorporation and memorandum and articles of association or other constitutive and/or other governing documents of the transferee (e.g. memorandum and articles of association, association agreement, constitution) marked clearly as ANNEXURE A of FORM C 3.
- 4.7. If the transferee is not a juristic person but intends to operate as one if this application is granted:
- 4.8 Provide a written undertaking that the transferee will comply with section 5(8) (b) of the Act marked clearly as **ANNEXURE A** of **FORM C 4**.

4.9 Indicate when and how the transferee will comply with section 5(8) (b) of the Act.

V. OWNERSHIP AND MANAGEMENT OF APPLICANT

- 5. Provide details of all ownership interests in the applicant and the identity and address of each holder of an ownership interest in the applicant. Where an applicant is a juristic person, only shareholdings (or equivalent) of 5% or more of the total issued shares (or equivalent) in the applicant are relevant.
- 5.1 Indicate whether the applicant is listed on any stock exchange, and provide details of any such listing:
- 5.2 In respect of each holder of any ownership interest in any person holding an ownership interest in the applicant, provide the details required in 6.1 in respect of each such holder:

5.3 Indicate the extent to which any ownership interest referred to above is held by an historically disadvantaged person

6.5. Indicate whether the holder of any ownership interest in the applicant is a foreign citizen or an entity registered or incorporated in any country other than South Africa:

- 6.6. Indicate whether any person holding an ownership interest in the applicant holds a Licence issued in terms of the Act or holds an ownership interest in any other licensee licensed to provide a service similar to that to which this application relates:
- 6.7. Provide particulars of any interest held by the applicant in another licensee licensed in terms of the Act:
- 6.8. Provide details (including name, nationality, identification or passport number, position and address) of each member of the applicant's:
 - (i) board of directors or similar body; and
 - (ii) senior management.

7. OWNERSHIP AND BUSINESS PLAN

- 7.1 Indicate details of ownership and control by historically disadvantaged persons.
 - 7.2 Provide details of the transferee's business plan in respect of the licensed service outlining details as per format in Annexure D (ii-v) marked clearly as **ANNEXURE A** of **FORM C 5**:

7.3 Provide details of how the following will be achieved by the licensee:

- I. Technical efficiency
- II. Functional efficiency
- III. Economic efficiency

7.4 Provide separately and mark clearly as **ANNEXURE A** of **FORM C 6**, copies of the transferee's audited annual financial statements for the previous three years:

8. APPLICANT'S LICENCE OBLIGATIONS

8.1 Indicate those obligations of the applicant in terms of the Licence which have

been discharged and those which will assumed by the transferee, should this application be granted:

8.2 Provide separately and mark clearly as **ANNEXURE A** of **FORM C 7**, a written undertaking given by the transferee, through its duly authorised representative, that it will comply with the applicant's Licence obligations in the event of the transfer application being approved by the Authority.

8.3. Provide reasons for the transfer of the Radio Frequency Spectrum Licence
8.4. Indicate if Transferor obtained Licence through:
First Come First Serve
Beauty Contest
Amount paid: R
8.5. Indicate which Radio Frequency Spectrum is currently licensed to the transferor, and attach supporting documents.

9. UNDERTAKINGS

9.1 Specify any undertakings which the transferee is prepared to make in order to promote the objects of the Act, if the Licence is transferred.

.

The persons signing the application on behalf of the app	blicant and the transferee must
acknowledge as follows:	
I, the applicant, acknowledge that the Authority reserves the rig	ght to have any Licence amended
pursuant to this application set aside, should any material stater	ment made herein, at any time, be
found to be false.	
Signed	
(APPLICANT)	
I certify that this declaration was signed and sworn to before me	aton
the day of 20, by the deponer	nt who acknowledged that he/she:
1. knows and understands the contents hereof;	
2. has no objection to taking the prescribed oath or affirmation;	and
3. considers this oath or affirmation to be truthful and binding o	n his/her conscience.
	COMMISSIONER OF OATHS
	Name:
	Address:
	Capacity:
Signed	
(TRANSFEREE)	
I certify that this declaration was signed and sworn to before me	
the day of 20, by the deponer	nt who acknowledged that he/she:
1. knows and understands the contents hereof;	
2. has no objection to taking the prescribed oath or affirmation;	and
3. considers this oath or affirmation to be truthful and binding o	n his/her conscience.
-	
	COMMISSIONER OF OATHS
	Name:
	Address:

FORM D

NOTICE OF SURRENDER OF RADIO FREQUENCY SPECTRUM LICENCE

(Regulation 11)

INDEPENDENT COMMUNICATIONS AUTHORITY OF SOUTH AFRICA

- Note: (a) Applicants must refer to the Electronic Communications Act, 2005 (Act No. 36 of 2005) ("the Act") and any regulations published under that Act with regard to the requirements to be fulfilled by applicants.
 - (b) Information required in terms of this Form which does not fit into the space provided may be included in an appendix attached to the Form. <u>Each appendix must be</u> numbered with reference to the part of the Form.
 - (c) Where any information in this Form does not apply to the licensee, the licensee must indicate that the relevant information is not applicable.

1.	PARTICULARS OF LICENCE	
1.1	Licence number	e
1.2	Nature of services authorised to be provided in terms of the Licence:	21710-000 M HF
1.3	Expiry date of Licence:	
1.4	Date on which surrender of Licence is to take effect:	10.07 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
1.5	Attach a copy of the Licence that is the subject of this notice marked cle Annexure A of FORM D 1.	early as

2.	PARTICULARS OF LICENSEE
2.1	Full name of licensee:
2.2	Designated contact person:
2.3	Licensee's street address:
2.4	Licensee's principal place of
	business (if different from street
	address):
2.5	Licensee's postal address:
2.6.	Licensee's telephone number/s:
2.7.	Licensee's telefax number/s:
2.8.	E-mail address of designated
	contact person:

3. PARTICULARS OF OTHER LICENCES

3.1. Indicate if the licensee holds any other Licences issued in terms of the Act and whether the licensee intends also to surrender any such Licences. If so, separate notices of surrender in respect of such Licences must be submitted in this regard.

4.	STEPS TO INFORM SUBSCRIBERS AND END-USERS			
4.1.	Provide details of the steps the licensee proposes to take to inform end-users of the			
	proposed cessation of the services in respect of which the Licence was granted.			

5. FEES PAYABLE
5.1 Indicate those fees and contributions which will be due and payable by the date on which the surrender of the Licence is to take effect and, the amount of such fees and contributions.
5.2 Specify the number of months which will have elapsed from the date on which the Licence was issued or from the last anniversary of the date on which the Licence was

issued, as the case may be:

5.3 Indicate those annual fees and contributions payable at a date subsequent to the date on which the surrender of the Licence will take effect, and the proportionate amount which must be paid to the Authority, where this can be calculated as at the date of this notice.

6.	GENERAL				
6.1	Provide details of any other matter of which, in the licensee's view, the Authority should				
	be aware and attach a copy of the Radio Frequency Spectrum Licenceissued to the				
	licensee:				
6.2	Attach a resolution authorising the person signing this notice to sign this notice, marked				
	clearly as Annexure A of FORM D 2.				

Signed

(LICENSEE)

I certify that this declaration was signed and sworn to before me aton

the day of 20..., by the deponent who acknowledged that he/she:

1. knows and understands the contents hereof;

2. has no objection to taking the prescribed oath or affirmation; and

3. considers this oath or affirmation to be truthful and binding on his/her conscience.

COMMISSIONER OF OATHS

Name:

Address:

Capacity:

FORM E

REQUEST FOR INTERVENTION BY THE AUTHORITY FOR PURPOSES OF COORDINATING RADIO FREQUENCY SPECTRUM USE OR RESOLVING DISPUTES

(Regulation 13)

INDEPENDENT COMMUNICATIONS AUTHORITY OF SOUTH AFRICA

- Note: (a) Applicants must refer to the Electronic Communications Act, 2005 (Act No. 36 of 2005) ("the Act") and any regulations published under that Act with regard to the requirements to be fulfilled by applicants.
 - (b) Information required in terms of this Form which does not fit into the space provided may be included in an appendix attached to the Form. <u>Each appendix must be</u> <u>numbered with reference to the part of the Form.</u>

1.	PARTICULARS OF LICENCEES	
1.1	Number of Licensees	
1.2	Licence number of each Licensee	
1.3	Nature of services authorised to be provided in terms of the Licence:	
1.4	Expiry date of Licence of each Licensee:	
1.5	Date on which coordination agreement , if any, was concluded:	
1.6	Date/s on which ADR was attempted:	
1.7	Attach a copy of the coordination agreeme	nt, if any, marked clearly as Annexure A
	of FORM E1.	

2.	PARTICULARS OF LICENSEE/ APPLICANT 1	
2.1	Full name of licensee:	

•

2.2	Designated contact person:
2.3	Licensee's street address:
2.4	Licensee's principal place of
	business (if different from street
	address):
2.5	Licensee's postal address:
2.6.	Licensee's telephone number/s:
2.7.	Licensee's telefax number/s:
2.8.	E-mail address of designated
	contact person:

3.	PARTICULARS OF LICENSEE OR APPLICANT 2
3.1	Full name of licensee:
3.2	Designated contact person:
3.3	Licensee's street address:
3.4	Licensee's principal place of
	business (if different from street
	address):
3.5	Licensee's postal address:
2.6.	Licensee's telephone number/s:
2.7.	Licensee's telefax number/s:
2.8.	E-mail address of designated
	contact person:

4.	PARTICULARS OF LICENSEE/AP	CULARS OF LICENSEE/APPLICANT 3		
4.1	Full name of licensee:			
4.2	Designated contact person:			
4.3	Licensee's street address:			
4,4	Licensee's principal place of			
	business (if different from street			
	address):			
4.5	Licensee's postal address:			

56 No. 34172

GOVERNMENT GAZETTE, 31 MARCH 2011

2.6.	Licensee's telephone number/s:
2.7.	Licensee's telefax number/s:
2.8.	E-mail address of designated
	contact person:

5. PROPOSED AMENDMENT TO THE LICENCE

5.1 Each applicant must set out the following:.

- a. Operator site (coordinates)
 - b. Frequencies in use
 - c. Technology in use
 - d. Power (EIRP)
 - e. Antenna gain
 - f. Height of antennas

5.2 Each applicant must set out the reasons for the dispute and attach the statements of fact supporting the claims, and documented proof of previous attempts to resolve the dispute by negotiation between the parties marked clearly as **Annexure A of FORM E2.**

5.3 Each applicant must explain the implications (if any) if the dispute is not resolved and propose options for resolution of the coordination issue:

6. RADIO FREQUENCY SPECTRUM

6.1 Indicate whether the applicants all hold a radio frequency spectrum Licence. If so, provide details thereof and attach a copy of the radio frequency spectrum Licences marked clearly as **Annexure A** of **FORM E3**.

6.2 In the event that an amendment to the applicant's radio frequency spectrum Licence is

necessary, a separate application to amend the applicant's radio frequency spectrum Licence must be submitted to the Authority in this regard at the same time as this application.

7.	UNDERTAKINGS
7.1	Provide details of undertakings (if any) and other matters which, in the applicants view,
	the Authority may need to take into consideration:
7.2	Attach a resolution authorising the person signing this application. The resolution must

The person signing the application on behalf of the applicant must acknowledge as follows:

I acknowledge that the Authority reserves the right to cease intervention should any material statement made herein, at any time, be found to be false.

- knows and understands the contents hereof;
- has no objection to taking the prescribed oath or affirmation; and
- considers this oath or affirmation to be truthful and binding on his/her conscience.

COMMISSIONER OF OATHS

Name:

Address:

Capacity:

Annexure B - Apparatus exempt from radio frequency spectrum licenses

The use or possession of the RADIO APPARATUS listed in Column B below, in accordance with all specifications listed in Columns, A, C, D and E of the Table below shall not require a radio frequency spectrum licence:

Table of Radio Frequency Spectrum LicenceExemptions

Column A	Column B	Column C	Column D	Column E
Frequency Bands K=kHz M=MHz G=GHz	Type of Device	Maximum Radiated Power or Field Strength Limits & Channel spacing	Relevant Standard	Additional Requirements
9-59.75K	Inductive Loop System.	72 dBµA/m @ 10m. No duty cycle restriction. No channel spacing.	EN 300 330 EN 301 489-1,3 EN 60950	CEPT/ERC/REC 70-03
59.75-60.25K	Inductive Loop System.	42 dBµA/m @ 10m. No restrictions on duty cycle No channel spacing.	N 300 330 EN 301 489-1,3 EN 60950 ISO/ IEC 18047-2	CEPT/ERC/REC 70-03 ASK, FSK, & PSK
60.25-70K	inductive Loop System.	72 dBµA/m @ 10m. No restrictions on duty cycle No channel spacing.	EN 300 330 EN 301 489-1,3 EN 60950	CEPT/ERC/REC 70-03
70-119K	Inductive Loop System.	42 dBµA/m @ 10m.	N 300 330 EN 301 489-1,3	CEPT/ERC/REC 70-03

•

•

No.	34172	2 59
-----	-------	-------------

		No restrictions on duty cycle	EN 60950	ASK, FSK, & PSK
		No channel spacing.	ISO/ IEC 18047-2	
119-135K	Inductive Loop System X	72 dBμA/m @ 10m.	EN 300 330	CEPT/ERC/REC 70-03
		No restrictions on duty cycle	EN 301 489-1,3	ASK, FSK, & PSK
		No channel spacing.	EN 60950 ISO/ IEC	
740-8800K	Inductive Loop System	9 dBµA/m @ 10m.	18047-2 EN 300 330	CEPT/ERC/REC 70-03
	Cystem	No restrictions	EN 301 489-1,3	
		on duty cycle	EN 60950	
		No channel spacing.		
6.765-6.795M	Inductive Loop System	42 dBμA/m @ 10m.	EN 300 330	CEPT/ERC/REC 70-03
		No restrictions on duty cycle	EN 301 489-1,3 EN 60950	
		No channel spacing.		
13.553-13.567M	Inductive Loop System	42 dBμA/m @ 10m.	EN 300 330	CEPT/ERC/REC 70-03
		No restrictions	EN 301 489-1,3	
		on duty cycle	EN 60950	ASK, FSK, & PSK
00.057.07.00014	Induction Loop	No channel spacing.		
26.957-27.283M	Inductive Loop System	42 dBµA/m @ 10m.	EN 300 330	CEPT/ERC/REC 70-03
		No restrictions on duty cycle	EN 301 489-1,3 EN 60950	
		No channel spacing.		
26.957-27.283M	Non-specific SRD.	10 rnW erp	EN 300 220	CEPT/ERC/REC 70-03

÷

,

		No restrictions on duty cycle.	EN 301 489-1,3	
		No channel spacing.	EN 60950	
26.995; 27.045; 27.095; 27,145;	Surface Model Control.	100 rnW erp.	EN 300 220	CEPT/ERC/REC 70-03
27.195M		No restrictions on duty cycle.	EN 301 489-1,3	
		10 kHz channel spacing.	EN 60950	
35.00 - 25.25M	Aircraft Model Control.	100 rnW erp.	EN 300 220	CEPT/ERC/REC 70-03
		No restrictions on duty cycle.	EN 301 489-1,3	
		10 kHz channel spacing.	EN 60950	
36.65 - 36.75M	Wireless Microphones.	100 rnW erp.	EN 300 422	CEPT/ERC/REC 70-03
		100% duty cycle.	EN 301 489-9	
		No channel spacing.	EN 60950	
40.65 - 40.70M	Wireless Microphones.	100 rnW erp	EN 300 422	CEPT/ERC/REC 70-03
		100% duty cycle	EN 301 489-9	
		No channel spacing.	EN 60950	
40.665, 40.675, 40.685, 40.695	Surface Model Control.	100mW erp.	EN 300 220	CEPT/ERC/REC 70-03
		No restriction on duty cycle.	EN 301 489-1,3	
		10 kHz channel spacing.	EN 60950	
40.66 – 40.7M	Non-specific SRD.	10 mW erp.	EN 300 220	CEPT/ERC/REC 70-03
		No duty cycle restriction.	EN 301 489-1,3	
		No channel spacing.	EN 60950	

.

		· · · · · · · · · · · · · · · · · · ·		-
46.61 – 46.97M 49.67 – 49.97M	CT0 Cordless Phones.	10 mW eirp	The Authority	Government Gazette
			TE-013	22443 of 4th July 2001
53 – 54M	Wireless Microphones.	50 rnW erp for class 1	EN 300 422	CEPT/ERC/REC 70-03
		equipment	EN 301 489-1,9	
		100 mW erp	EN 60950	
		100% duty cycle		
		No channel spacing		
54.4500; 54.4625;	Model Control.	5W erp	EN 300 220	CEPT/ERC/REC 70-03
54.4750; 54.4875;		12.5kHz channel spacing	EN 301 489-1,3	
54.500;			EN 60950	
04.000,				
54.5125; 54.5250;				
54.5375;				
54.5500M				
141 – 142M	Remote Control Industrial	100mW erp	EN 300 220	
	Apparatus.		EN 301 489-1,3	
			EN 60950	
148 – 152M	Wildlife telemetry Tracking.	25rnW erp	EN 300 220	The use of this band is restricted to
	doming.		EN 301 489-1,3	National game Parks.
			EN 60950	
169.4 – 169.475M	Meter Reading	500rnW erp	EN 300 220	CEPT/ERC/REC 70-03
		50kHz channel spacing	EN 301 489-1,3	ECC/DEC (05)02
			EN 60950	
		< 10% duty cycle		
173.2125 -	Non-specific	10 mW erp	EN 300 220	

~

			- 1	
173.2375M	SRD – telecornrnand only.	25 kHz channel spacing	EN 301 489-1,3 EN 60950	
173.2375 – 173.2875M	Non-specific SRD.	I0 rnW erp. 25 kHz channel spacing.	EN 300 220 EN 301 489-1,3 EN 60950	
173.965 – 174.015M	Wireless Microphones and assistive listening devices.	2 mW eirp. 100% duty cycle. No channel spacing.	EN 300 220 EN 301 489-9 EN 60950	CEPT/ERC/REC 70-03
402 – 405M	Medical Implants.	 25 μW erp. No duty cycle restriction for devices with LBT, otherwise ≤ 1%. 25 kHz channel spacing. 	EN 300 839 EN 301 489-1,3 EN 60950	ITU-R RS.1346 CEPT/ERC/DEC (01)17
402 – 406M	Doppler shift movement detectors, wireless microphones, garage door openers and motor car alarm systems.	10 mW erp. No channel spacing. 100% duty cycle.	EN 300 422 EN 300 220 EN 301 489-1,3 EN 60950	
433.05 – 434.79M	Non specific SRD	1 mW erp. No channel spacing. 100% duty cycle	EN 300 220 EN 301 489-1,3 EN 60950	CEPT/ERC/REC 70-03 ASK, FSK, PSK, & FHSS

•

.

		· · · · · · · · · · · · · · · · · · ·		
			ISO/IEC 18047-7	
433.05 434.79M	Non specific SRD	10mW erp	EN 300 220	CEPT/ERC/REC 70-03
		duty cycle < 10%	EN 301 489-1,3	ASK, FSK, PSK, &
		No channel spacing	EN 60950	FHSS
			ISO/IEC 18047-7	
433.05 434.79M	Non specific SRD	10 mW erp	EN 300 220	CEPT/ERC/REC 70-03
		100% duty cycle	EN 301 489-3	
		Up to 25kHz channel spacing.	EN 60950	
			ISO/IEC 18047-7	
446 - 446.1 M includes the	Public Mobile Radio (PMR).	500mW.	EN 300 296	
following eight channels.		12,5 kHz channel spacing	EN 301 489-5	
			EN 60950	
446.00625M; 446.01875M;				
446.03125M;				
446.04375M;				
446.05625M;				
446.06875M;				
446.08125M;				
446.09375M;				
464.5375M	Security systems	1W	EN 300 296	
		25 kHz channel spacing.	EN 301 489-5	
		opdonig.	EN 60950	

464.500 – 464.5875	Non-specific SRD	100mW No channel	EN 300 220	
	· · · ·	spacing	EN 301 489-3	
			EN 60950	
			ISO/IEC 18047-7	
463.975M; 464.125M;	Low Power Radio.	500mW.	EN 300 296	CEPT/ERC/REC 70-03
464.175M; 464.325M;		12,5 kHz channel spacing	EN 301 489-5	
464.375M;			EN 60950	
863 - 865M	Wireless Audio Systems.	10 mW erp.	EN 300 357	CEPT/ERC/REC 70-03
	•	100 % duty cycle.	EN 301 489-9	CEPT/ERC/DEC
		No channel spacing.	EN 60950	(01) 18
863 - 865M	Wireless Microphones	10 mW erp.	EN 300 422	CEPT/ERC/REC 70-03
		100 % duty cycle.	EN 301 489-9	
		No channel spacing.	EN 60950	
864.1 - 868.1M	CT2 cordless telephones	10 mW eirp.	EN 301 797	CEPT/ERC/REC 70-03
			EN 301 489- 1,10	
			The Authority	
			TE - 012	
868 - 868.6M	Non specific SRD	25 mW erp.	EN 300 220	CEPT/ERC/REC 70-03
		< 1% duty cycle or	EN 301 489-1,3	CEPT/ERC/DEC (01) 04

.

		LBT.	EN 60950	
868.6 - 868.7M	Alarms.	10 mW erp.	EN 300 220	CEPT/ERC/REC 70-03
		< 1 % duty cycle. 25 kHz channel	EN 301 489-1,3	CEPT/ERC/REC
		spacing.	EN 60950	(01) 09
868.7 – 869.2M	Non specific SRD	25 mW erp.	EN 300 220	CEPT/ERC/REC 70-03
		< 0.1 % duty cycle or LBT.	EN 301 489-1,3	CEPT/ERC/REC
		No channel spacing.	EN 60950	(01) 04
869.25 – 869.3M	Alarms.	10 mW erp.	EN 300 220	CEPT/ERC/REC 70-03
		< 0.1 % duty cycle.	EN 301 489-1,3	
		25 kHz channel spacing.	EN 60950	
869.4 - 869.65M	Non-specific SRD.	500mW erp.	EN 300 220	CEPT/ERC/REC 70-03
		< 10% duty cycle or	EN 301 489-1,3	
		LBT.	EN 60950	
		25 kHz channel spacing.		
869.65 - 869.7M	Alarms	25 rnW erp.	EN 300 220	CEPT/ERC/REC 70-03
		10 % duty cycle.	EN 301 489-1,3	
		25 kHz channel spacing.	EN 60950	
869.7 - 870.0M	Non-specific SRD.	5 mW erp.	EN 300 220	CEPT/ERC/REC 70-03
		100 % duty cycle.	EN 301 489-1,3	
			EN 60950	

-

		No channel		
		spacing.		
	DECT cordless ones.	250 mW eirp (peak).	EN 300 406	
		1.728 MHz	EN 301 489-1,6	
		channel spacing.	EN 60950	
			The Authority	
			TE 001	
	lon-specific SRD	10 mW erp.	EN 300 440	CEPT/ERC/REC 70-03
		No duty cycle.	EN 301 489-1,3 EN 60950	
		No channel spacing.		
	Videband Vireless	100 Mw eirp.	EN 300 328	CEPT/ERC/REC 70-03
	Systems	No duty Cycle.	EN 301 489 - 1,3	
	VLAN	No channel spacing.	EN 60950	
Ti A	Videband Data Transmission Applications WBDTS)			
M	Iodel Control.			
2400 – 2483.5M Fi	DDA	25 mW erp.	EN 300 440	CEPT/ERC/REC 70-03
		No duty cycle.	EN 301 489-1,3	
		No channel spacing.	EN 60950	
	ow power Video Surveillance	100 mW erp.	EN 300 440	CEPT/ERC/REC 70-03
		No duty cycle.	EN 301 489-1,3	
		No channel spacing.	EN 60950	

•

٠

				· · · · · · · · · · · · · · · · · · ·
	Systems / Radio Local Access Network (WAS & RLAN) indoor use only.	Dynamic Frequency Selection (DFS) & Transmitter Power Control Obligatory.	EN 301 489- 1,17 EN 60950	
5470 – 5725M	Wireless Access Systems / Radio Local Access Network (WAS & RLAN): indoor use only.	1 W eirp. Dynamic Frequency Selection (DFS) & Transmitter Power Control Obligatory.	EN 300 893 EN 301 489- 1,17 EN 60950	ITU-R M.1625
5725 – 5875M		1 watt peak eirp Any modulation		
5725 5875M		4 watt peak eirp Frequency hopping or digital modulation only		
5795 – 5805M	RTTT data	2 W eirp. No duty cycle restriction. No channel spacing.	EN 300 674 EN 301 489-1,3 EN 60950	ITU-R M.1453 CEPT/ERC/DEC (92)02
5805 – 5815M	RTTT data.	2 W eirp. No duty cycle restriction. No channel spacing.	EN 300 674 EN 301 489-1,3 EN 60950	ITU-R M.1453 CEPT/ERC/DEC (92)02
9200 – 9500M	FDDA.	25 rnW eirp. No duty cycle restriction.	EN 300 440 EN 301 489-1,3 EN 60950	CEPT/ERC/REC 70-03

.

		-		,
		No channel spacing.		
9500 - 9975M	FDDA.	25 mW eirp.	EN 300 440	CEPT/ERC/REC 70-03
		No duty cycle restriction.	EN 301 489-1,3	
		No channel spacing.	EN 60950	
10.5 – 10.6G	FDDA.	500 rnW eirp.	EN 300 440	CEPT/ERC/REC 70-03
		No duty cycle restriction.	EN 301 489-1,3	
		No channel spacing.	EN 60950	
13.4 – 14G	FDDA.	25 rnW eirp.	EN 300 440	CEPT/ERC/REC 70-03
		No duty cycle restriction.	EN 301 489-1,3	
		No channel spacing.	EN 60950	
17.1 – 17.3G	Wireless Access Systems / Radio	100 mW eirp.	EN 300 440	CEPT/ERC/REC 70-03
	Local Access Network (WAS & RLAN).		EN 301 489-1,3	
			EN 60950	
24.00 - 24.25G	Non-specific SRD.	100 mW eirp.	EN 300 440	CEPT/ERC/REC 70-03
		No duty cycle restriction.	EN 301 489-1,3	
		No channel spacing.	EN 60950	
24.05 – 24.25G	FDDA.	100 rnW eirp.	EN 300 440	CEPT/ERC/REC 70-03
		No duty cycle restriction.	EN 301 489-1,3	
		No channel	EN 60950	

		spacing.		
76-77G	RTTT radar	55dBm peak	EN 300 091	CEPT/ERC/REC 70-03
		No duty cycle restriction	EN 301 489-1,3	
		No channel spacing	EN 60950	

Use and possession of all radio apparatus exempt in terms of the above table must comply with the following:

- (a) All radio apparatus must be type-approved by the Authority in accordance with section 35 of the Act;
- (b) The frequencies, transmitting power and external high-gain antenna of the radio apparatus must not be altered without a new type approval certificate being issued by the Authority;
- (c) The RADIO APPARATUS must be operated within, and not exceed, the technical parameters set out in each of the applicable columns C and D of the Table with respect to the frequency band; maximum radiated power or field strength limits and channel spacing; relevant standard; and duty cycles and antennas to be used as contained in Column E.
- (d) The antenna of the RADIO APPARATUS must not be higher or above average ground level than the lowest point of the place where the RADIO APPARATUS operates effectively.
- (e) The RADIO APPARATUS must not cause interference to any person issued with a radio frequency spectrum licenceby the Authority.
- (f) The user of the RADIO APPARATUS in the licence-exempt frequency spectrum operates on non-interference and zero protection bases from interference.

Annexure C. Categories subject to the Standard Application Procedure.

- (1) Unless otherwise stated in regulations or an Invitation to Apply, Standard Application procedures apply to the following:
 - i. Amateur Radio;
 - ii. Marine Band;
 - iii. Aeronautical Band;
 - iv. Citizen Band Radio;
 - v. Ski Boats;
 - vi. Two way Radio without repeaters; (including Short Range Business Portable radio);
 - vii. Shared simplex HF;
 - viii. Communal Repeaters;
 - ix. Radio Frequency Spectrum Licencefor assignment in the broadcast bands to the holder of a Broadcast Service Licence;
 - x. For frequencies above 40 GHz;
 - xi. Microwave Point to Point
 - xii. Point to Multipoint Point fixed links bands
 - xiii. Satellite Bands Direct Links
 - xiv. Any other services or frequency bands that the Authority may specify.
- (2) In addition, where a Licensee already has assignments for point to point links under his licence, he may apply for new links to be assigned as an amendment to his licenceusing the Standard Application Procedure.
- (3) The Authority may at any time require an applicant to submit his application using the extended procedures.

Annexure D. Standard Application Procedures

- (1) The relevant application form obtainable at any office of the Authority shall be completed in full and submitted with the prescribed application fee at any office of the Authority.
- (2) For applications subject to the standard application procedures, the following information shall be provided unless otherwise specified in these or other regulations.
- (3) If the information to be supplied is not applicable, then the term 'not applicable' shall be written with a short explanation.

I. APPLICANT'S DETAILS

No.	Information Required
1	Name, address, identification number telephone number and Email address of applicant
	• If the applicant is a South African citizen a copy of the identity document shall be submitted to the Authority.
	• If the applicant is a foreigner a copy of the passport as well as proof of status shall be submitted to the Authority.
	In the case of companies
	(3) A certified copy of the Company's registration certificate
	(4) Name and address of directors and/ or principal executives
2	When applying for an Radio Frequency Spectrum Licencefor Amateur Radio, the following shall be supplied by the applicant in addition to that specified in 1:
	(5) A copy of the applicant's Amateur Radio Operator's Certificate.
3	When applying for a Radio Frequency Spectrum Licencefor a high frequency (HF Band) cross border communication system in the Southern African Development Community, the following must be supplied by the applicant addition to that specified in (1):
	• The registration numbers of any vehicles in which the radio apparatus may be installed.
4	When applying for a Radio Frequency Spectrum Licencefor a high frequency (HF Band) cross-border communication system in a territory other than in the Southern African Development Community, the following shall be supplied by the applicant in addition to that specified in (1):
	• A copy of the Radio Frequency Spectrum Licenceissued in the foreign country.
	Proof of validity of the foreign Radio Frequency Spectrum Licence.
	• A completed form of notice (AP1/A15) in respect of a transmitting terrestrial station.

-

(ii) TECHNICAL INFORMATION (SYSTEM DESIGN)

No.	Information Required		
1	Site names	Name of place where equipment is located	
2	Site code	Code assigned to place	
3	Site coordinates	Geographic coordinates to locate places on maps in degrees, minutes and seconds (ddmmss)	
4	Frequency (Hz)	Airwaves through which the radio waves are transmitted	
5	Bandwidth (MHz)	Amount of frequency occupied by the transmitted signal (RF bandwidth)	
6	Modulation scheme	Method of transmitting radio signals	
7	Bit rate (bits/s)	Speed of transmitting digital radio signals	
8	Antenna site	Where antenna is situated	
9	Antenna type	Type of antenna	
10	Antenna diameter (m)	Diameter of antenna	
11	Antenna gain (dB)	Gain of antenna in terms of decibels (dB)	
12	Antenna polarization (H/ V)	Horizontally or vertically polarized	
13	Transmit power (dbm/ Watt)	Transmitted power at the output of antenna	
14	Receiver sensitivity threshold (dBm)	Lowest value of signal detected by receiver	
15	Fixed loss (dB): transmit and receive	Percentage of lost power	
16	Type of service	Data service, voice, paging, telemetry etc	
17	Area and direction of operation	Geographical area of service	
18	Applicants must provide diagra	ams or sketches of proposed operations	
19	Adherence to EMC specification	ons	
20	Equipment specifications, type approval certificates		

Annexure E. Extended Application Procedures

- (1) The relevant application form obtainable at any office of the Authority shall be completed in full and submitted with the prescribed application fee at any office of the Authority.
- (2) For applications subject to the extended application procedures, the following information shall be provided unless otherwise specified in these or other regulations.
- (3) If the information to be supplied is not applicable, then the term 'not applicable' shall be written with a short explanation.

(I) APPLICANT DETAILS

No.	Information Required	
1	Name, address, identification number telephone number and Email address of applicant	
	• If the applicant is a South African citizen a copy of the identity document shall be submitted to the Authority.	
	• If the applicant is a foreigner a copy of the passport as well as proof of status shall be submitted to the Authority.	
	In the case of companies	
	a. A certified copy of the Company's registration certificate	
	b. Name and address of directors and/ or principal executives	
2	Annual report of the applicant and its main shareholders from the previous three years (where available)	
3	Full particulars of the experience and expertise of the applicant, its partners, shareholders, suppliers and contractors in the business contemplated	
4	Extent of beneficial ownership of the applicant by the historically disadvantaged persons	
	Extent of beneficial ownership by women	
	Extent of beneficial ownership by the youth	
	Extent of beneficial ownership by the disabled	

(II) DESCRIPTION OF SERVICE

No.	Information Required	
1	Description of service to be provided	
2	Proposed annual coverage, rollout indicating the exact areas and location covered	

(III) CONSTRUCTION OF THE NETWORK (RADIO COMPONENT)

	·
No.	Information Required

1	Availability and experience of planning and project management capabilities required for construction of the network	
2	Mechanisms used for the planning of any radio component of the network	
3	Plans to acquire resources such as access to sites, other property, technology, personnel and capital	

(IV) BUSINESS PLAN

Should a Radio Frequency Spectrum Licensee issued, the information contained in the business plan may be incorporated as licence conditions.

No.	Information Required	
1	Fundamental assumptions for the business plan with financial forecasts for a minimum period of three years.	
2	A market analysis of the services contemplated to be offered through the radio frequency spectrum licence applied for, including forecast demand.	
3	Description of products and services to be offered through the radio frequency spectrum licence applied for.	
4	Description of pricing strategy for products and services to be offered through the radio frequency spectrum licence applied for.	

(V) TECHNICAL INFORMATION (RADIO SYSTEM DESIGN)

No.		Information Required
1	Full information of the	technology to be implemented
2	Approach to network development and expansion	
3	Description of all the relevant or important interfaces in the network	
4	Requirements for interconnection to other telecommunication networks or services and transmission medium and links required	
5	Upgrade of the network to accommodate new standards and technology developments	
6	Compliance with recognized international standards and specifications	
7	Details of radio planning including methods to reserve frequency	
7.1	Site names	Name of place where equipment is located

•

_

7.2	Site code	Code assigned to place	
7.3	Site coordinates	Geographic coordinates to locate places on maps in degrees, minutes and seconds (ddmmss)	
7.4	Frequency (Hz)	Airwaves through which the radio waves are transmitted	
7.5	Bandwidth (MHz)	Amount of frequency occupied by the transmitted signal (RF bandwidth)	
7.6	Modulation scheme	Method of transmitting radio signals	
7.7	Bit rate (bits/s)	Speed of transmitting radio signals	
7.8	Antenna site	Where antenna is situated	
7.9	Antenna type	Type of antenna	
7.10	Antenna diameter (m)	Diameter of antenna	
7.11	Antenna gain (dB)	Gain of antenna in terms of decibels (dB)	
7.12	Antenna polarization (H/ V)	Horizontally or vertically polarized	
7.13	Transmit power (dbm/ Watt)	Transmitted power at the output of antenna	
7.14	Receiver sensitivity threshold (dBm)	Lowest value of signal detected by receiver	
7.15	Fixed loss (dB): transmit and receive	Percentage of lost power	
7.16	Type of service	Data service, voice, paging, telemetry etc	
7.17	Area and direction of operation	Geographical area of service	
8	Applicants must provid	e diagrams or sketches of proposed operations	
9	Adherence to EMC spe	ecifications	
10	Theoretical traffic volume forecasts and alternative routing and redundancy requirements		

٠

11	Numbering plan for the service:	
12	Quality systems deployed and quality targets used:	
13	Details of fixed network planning	
14	Presentation of network planning data in the form of schedules, diagrams, tables and maps for the initial phase and two subsequent phases	
15	Network management, fault detection, service and maintenance mechanisms	
16	Equipment specifications, type approval certificates	
17	Regulatory requirements (ITU and Act)	
18	Technical expertise	
19	Service monitoring capabilities	
20	 Critical Efficiency Factors a. Technical (spectral efficiency) - defined in terms of maximum volume of traffic (voice/ data) within a given spectrum resource (erlangs/MHz/km² or Mbits/MHz/km²) for voice and data respectively. Technical efficiency indicators include the following: i. Bandwidth efficiency (expressed in bits/ Hz) defined as the amount of information contained in a finite spectrum . ii. Reuse which dictates to what extent the spectrum can be simultaneously used at multiple locations (reuse factor of 1 is the highest). iii. Time; since applications do not typically use information on a continuous basis and can share resouces by time multiplexing. (40 points) b. For broadcast services technical efficiency is defined in terms of ability to address maximum potential audience (coverage) with the minimum amount of spectrum. c. Functional efficiency defined in terms of extent to which the use of spectrum meets the users needs (<i>evaluated by defined key performance indicators (KPI): the KPI for the particular band will be defined by the Authority and provided as part of the Invitation to Apply (ITA) as deemed necessary). (30 points)</i> d. Economic efficiency defines the monetary gain in terms of revenue, profit and value which the licensee derives from that portion of spectrum.(30 point) Total socre for efficiencies = 	

Annexure F – Radio frequency spectrum application and permit fees.

1. Application Fees by Type of Radio-Communications Services

4

1. Amateur Radio Service	
Type of Service	Fees (Rand)
All classes of licences	140
Beacon	100
Repeater station including radio link	100
Digipeater/Bulletin Board	100
Listeners	100
Experimental station for weather satellite reception and retransmission	210
Guest or special event licence	100
Change of call sign on request	100

2. Aeronautical Service	
Type of Service	Fees (Rand)
Aircraft frequency band	480
Beacon frequency	480
Ground station frequency	480
Relay station frequency	170

3. Maritime Service	
Type of Service	Fees (Rand)
Ship frequency spectrum	480
Coast station frequency - Non commercial	480

•

Coast Station Frequency – Commercial	600
Beacon frequency	480

4. Land Mobile Service				
Type of Service	Fees (Rand)			
Citizen band frequencies	210			
Civil Defence/Marnet (VHF band)				
- without a private frequency	210			
- with a private frequency	620			
27/29 MHz frequency band	210			
Simplex frequency in the VHF and UHF bands 620				
High frequency band				
- Cross Border	830			
- Cross Border – SADC	1040			
- Local HF	620			

5. Fixed Service			
Type of Service	Fees (Rand)		
Experimental or test licence	830		
Special Radio Service	830		
Microwave Link frequencies (per application)	830		
All other fixed services	830		

•

6. Radio-Communication Systems				
Type of Service	Fees (Rand)			
Alarm System	980			
Load Management System	1000			
Telemetry System	730			
Message Handling System	1230			
Paging System	1430			
Radio Trunking System (per frequency channel)	275			
Repeater System	1100			
Wide Area Network	1660			
Wireless Local Loop System	650			

7. Satellite Service				
Type of Service	Fees (Rand)			
Fixed Satellite Earth Station – Uplink	1600			
Transportable Satellite News Gathering Station SNG	1600			
VSAT	1600			

8. Miscellaneous				
Type of Service	Fees (Rand)			
Radio apparatus Dealer Certificate Application	100			
Maritime Certificate Application	100			
Computer printout per licence/certificate	100			
Duplicate per licence/certificate	100			

.

Change of name and/or title of the licensee	100
Modification to license- Administrative (excluding address changes)	100
Modification to License-Technical	410

2. Permit Fees

	or possession of RADIO APPARATUS subject to Radio by Spectrum Licences without a licence being issued	Fees (Rand)
(i)	Application Fee for Permit	100
(ii)	Fee for Permit	100

,

_

Annexure G- Radio Frequency Spectrum Examination and Certificate Fees

*

1. The fees below are payable when sitting for the examination indicated or to acquire the certificate shown.

Certificate, purpose for which it is required and examination fee unless otherwise stated:

		Fees (Rand		
1	General Operator's Certificate (Maritime): Performing duties on a ship subject to the requirements of the Global Maritime Distress and Safety System: Issue of certificate	30		
2	Restricted Radiotelephone Operator's Certificate (Maritime): Operation of a radiotelephone installation on a ship, provided that-			
	(i) the carrier-wave power of the transmitter does not exceed BOW; or			
	(ii) the operation of the transmitter requires only the use of simple external switching devices, any manual tuning of the elements determining the frequency is excluded, and the stability of the frequencies is maintained within the prescribed tolerance limits by the transmitter itself, the peak envelope power of which does not exceed 1,5Kw			
	Issue of certificate	30		
	Per repeated subject	18		
3	Restricted Operator's Certificate (Maritime): Performing duties on a ship subject to the requirements of the Global Maritime Distress and Safety System: Issue of certificate	30		

Annexure H - Table of amateur modes of emission.

No. Mode Explanation

- i. A1A. Telegraphy without the use of a modulating audio frequency (by on/off keying) for aural reception
- ii. A3C Facsimile (with modulation of the main carrier either directly or by frequency modulated sub-carrier
- iii. A3E Double sided telephony
- iv. C3F Television by analogue modulation and vestigial-sideband operation.
- v. F1A Telegraphy for aural reception is including DATA by means of frequency shift keying without the use of a modulating audio frequency one or two frequencies being emitted at any instant.
- vi. F1B Telegraphy including DATA by means of frequency shift keying without the use of a modulating audio frequency one or two frequencies being emitted at any instant.
- vii. F1D Data transmissions by means of frequency shift keying without the use of a modulating audio frequency, with one frequency been emitted at any instant.
- viii. F2A Telegraphy for aural reception including RTTY and DATA by the on/off keying of a frequency or by means of the on/off keying off keying of a frequency modulated emission.
- ix. F2B Telegraphy including RTTY and DATA by the on/off keying of frequency modulating audio frequency or by means f the on/off keying of a frequency modulated emission.
- x. F3C Facsimile by direct frequency modulation of the carrier
- xi. F3E Frequency modulated telephony.
- xii. G3E Phase modulated telephony.
- xiii. J3E Single sideband suppressed carrier telephony.
- xiv. J3F Single sideband suppressed carrier, modulated by slow scan television audio frequencies.
- xv. NON Emission of an unmodulated carrier
- xvi. R3E Single sideband, reduced or variable level carrier telephony
- xvii. W9E Digital speech multiplexed up to twelve channels.
- xviii. J2D Data transmission with the use of a modulating auto frequency
- xix. J2E Digital telephony with the use of a modulating audio frequency

Frequency bands in MHz	The Amateur Service	Maximum Power in dB relative to 1 watt PEP	Satellite	Permitted types of transmissi on	Remarks
0.1357 - 0.378	Secondary	CLASS A 1 Watt e.i.r.p		All except pulse or fast scan	
1 810-1.850	Primary	A1 = 26 dBW A2 = 20 dBW		All except pulse or fast scan	No Class B operation
3.500 - 3.800	Co-primary	A1 = 26 dBW A1 = 26 dBW B = 13 dBW		All except pulse or fast scan	
7.000 - 7.200	Primary.	A1 = 26 dBW $A2 = 20 dBW$ $B = 13 dBW$	Allocated	All except pulse or fast scan	
10 100 - 10.150	Secondary	A1 = 26 dBW		All except pulse or fast scan	No Class A2 or Class B operation International Band
14.000 - 14.350 14.070 - 14.099 14.225 -14.250	Primary	A1 = 26 dBW A2 = 20 dBW A2 = 20 dBW	Allocated	All except pulse or fast scan	No Class B operation International Band
18.068 - 18.168	Primary	A1 = 26 dBW	Allocated	All except pulse or fast scan	No Class A2 or Class B operation International Band
21.000 - 21.450 21.070 - 21.120 21.300 -	Primary	A1 = 26 dBW A2 = 20 dBW A2 = 13 dBW	Allocated	All except pulse or fast scan	No Class B operation International Band

Annexure I – Amateur radio frequency bands

.

•

.

				T	
24.890 - 24.990	Primary	A1 = 26 dBW	Allocated	All except pulse or fast scan	No Class A2 or Class B operation International Band
28.000 - 29.700	Primary		Allocated	All except pulse or fast scan	No Class B operation International Band
		A1 = 26 dBW A2 = 20 dBW			
28.050 - 28.150	Primary	A2 = 20 dBW B = 20 dBW	Allocated	All except pulse or fast scan	No Class B operation International Band
28.300 - 28.500	Primary	A2 = 20 dBW B = 20 dBW	Allocated	All except pulse or fast scan	No Class B operation International Band
29.700 - 30.000	Secondary	26 dBW		All	Secondary basis during disaster exercises and emergency



÷,

