

REGULATIONS

Part 9 – Answers Relating to Repeater Station.

Section 39

1. What is a repeater station?

A repeater is an automated radio station that extends the range of communications. It consists of a receiver tuned to one frequency and a transmitter tuned to a different frequency, linked together with a controller device.

2. Where would you find information about a repeater and identify the owner?

Australian repeater Directory

3. What are the three essential characteristics of a repeater station?

a) to receive signals and retransmit those signals; or

(b) to transmit a signal that identifies the station.

(Must automatically identify itself.)

Section 40

4. How often does the repeater need to transmit its callsign?

Every 10 minutes

Section 41

5. Should unauthorised users access the repeater?

No

Section 42

6. What are the four access controls used for repeaters?

(i) a tone burst system that has a frequency of 1750 Hz.

(ii) a continuous tone coded squelch system (CTCSS) that uses the frequencies set out in Part 1 of Schedule 4.

(iii) a dual tone multi frequency (DTMF) system that uses the frequencies set out for digits in Part 2 of Schedule 4.

(iv) a system that uses any other readily available code or signal.

7. What is CTCSS?

CTCSS (Continuous Tone Coded Squelch System) is an audio tone added to your voice transmission. This audio tone ranges from between 67Hz to 254Hz. The exact audio frequency of the tone will depend on the repeater's requirements.

8. What is DTMF?

Dual tone multi frequency (DTMF) is a technology used with touch tone phones, best known to users as the sound made when pressing a number key. DTMF sends two tones for every number pushed - one high frequency and one low frequency.

9. Where in the LCD would you find a list of CTCSS and DTMF frequencies?

Schedule 4 of the LCD

Section 43

10. What frequencies should a repeater avoid preventing interference?

50 – 52 MHz

Section 44

11. How often does a repeater need to automatically transmit its call sign?

Very ten minutes

