AMATEUR RADIO STATION EMR SAFETY MANAGEMENT BOOK

Amateur Callsign	VK7TO		
Station Location	Down by the banks of the hanky panky		
Assessed By	Lance Conry		
Assessment Date	11 Sept 2025		



TRANSMITTING ANTENNA SYSTEM SUMMARY

Ant. System/Item	System 1	System 2	System 3	System 4
Description	HF EFHW	20 Vertical	VHF/UHF Diamond	VHF ¼ WL GP
Location (public/private)	Driveway boundary	On house roof	On house roof	On house roof
Frequency	3.5 - 50 MHz	14 MHz	144 MHz – 440 MHz	144 MHz – 440 MHz
Tx Power	100 W	100 W	100 W	100 W
Tx Modes	SSB/CW/Digital	SSB/CW/Digital	FM/SSB/CW/Digital	FM/SSB/CW/Digital
Tx Time (% of 6 mins)	50%	50%	50 %	50 %
Antenna Type/Gain	Dipole ~2 dBi	1/4 WL Vertical ~3 dBi	Colinear vertical ~3dBi	1/4 wave vertical ~3dBi
Antenna Height (lowest	4 m	7 m	7 m	7 m
point)				
Coax Type/Losses	6 m RG213	15 m RG213	15 m RG213	10 m RG213
Compliance Class	2	1	1	1

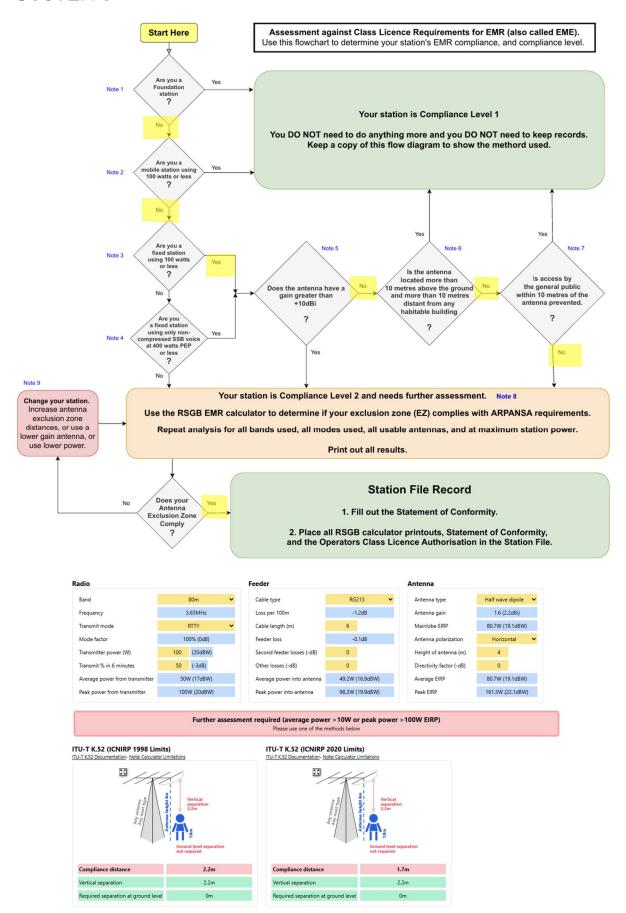
EMR Safety Requirements:

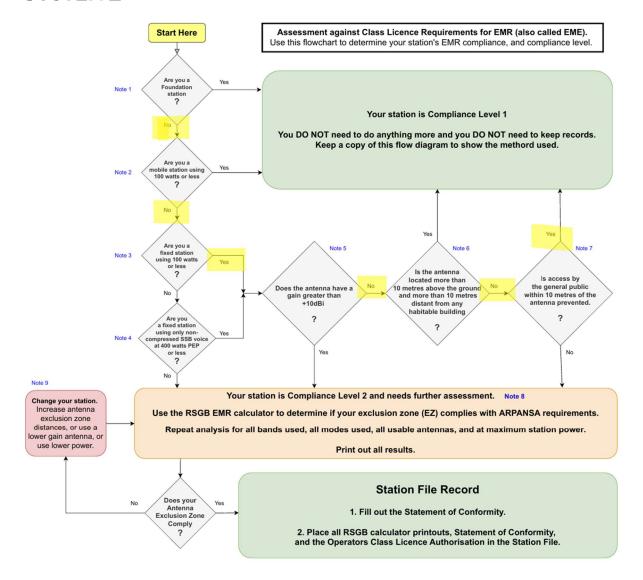
System 1: Keep more than 2.2 m below the antenna.

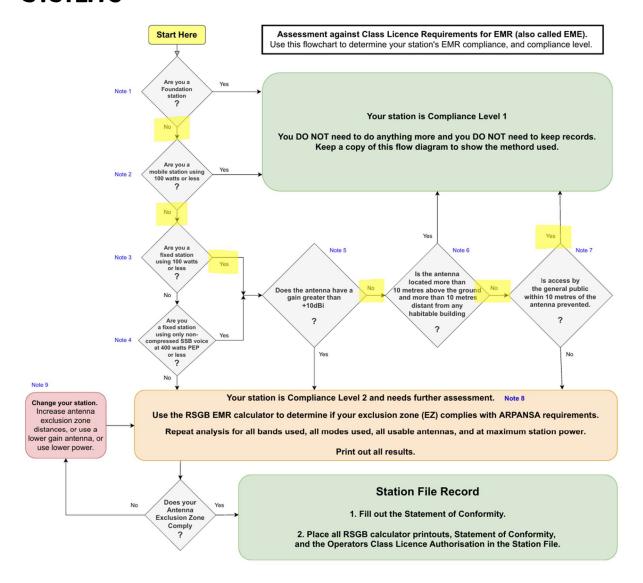
System 2: Inherently safe because of low power, gain and non-public area.

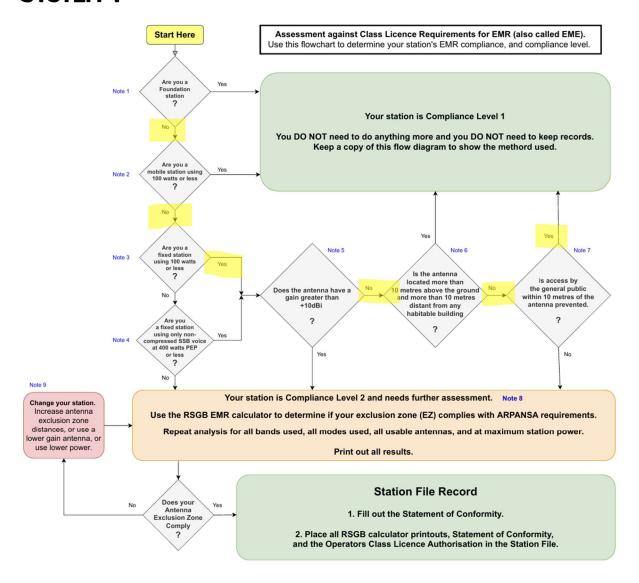
System 3: Inherently safe because of low power, gain and non-public area.

System 4: Inherently safe because of low power, gain and non-public area.









APPENDIX I: RESOURCES

- Amateur Radio EMR Flowchart: https://www.wia-education.com.au/resources-for-clubs
- RSGB Calculator: https://rsgb.services/public/software/emccalculator/