Purpose:
The Richmond Amateur Radio Club’s (RARC) mission promotes the enjoyment and advancement of amateur radio and emergency communication. Consistent with that mission, the RARC purchased and operates the W4FJ D-Star repeaters.

General Rules:
- The use of the W4FJ repeaters is a privilege.
- Repeater usage is at the sole discretion of the repeater trustee, under the direction of the RARC Officers and Board of Directors.
- Acceptable traffic on the repeater must be in line with the RARC mission.
- Good manners and proper repeater protocol are always required. If you are not sure what constitutes good repeater operation, contact any RARC officer or the W4FJ repeater trustee.
- Traffic prohibited by the FCC is always unacceptable and illegal.
- Traffic of a political, religious, sexual or inflammatory nature is not permitted.
- Purposeful jamming or interfering with repeater operations is illegal. RARC takes this seriously and will report violations as necessary.
- Repeated violations or illegal operations will result in a report to the authorities.

W4FJ Operational Configuration
- 2 meter (VHF)
  - Frequency: 147.255 +600 Khz
  - Port: C
  - RPT1: W4FJ  C (3 spaces)
- 70 centimeter (UHF)
  - Frequency: 443.7125 +5 Mhz
  - Port: B
  - RPT1: W4FJ  B (3 spaces)
- 23 centimeter
  - Frequency: 1280.000 -20.00 Mhz
  - Port: A
  - RPT1: W4FJ  A (3 spaces)
D-Star Operational Guidelines:

- Please wait for the Repeater and Gateway ID following each transmission.
- Please wait 1 second after receiving a transmission before responding (keying up).
- Voice identification is optional but highly encouraged; the D-Star digital protocol transmits your callsign on every transmission implicitly meeting the FCC identification rule.
- The preferred methods of “Calling CQ” are:
  - Local Repeater Usage
    - (Callsign) (Status: [Mobile|Portable|Monitoring|etc]) on W4FJ ([2 meters|70 centimeters|23 centimeters])
    - Example: "K8OI Mobile on W4FJ 70 centimeters"
  - Crossband Repeater Usage
    - (Callsign) (Status: [Mobile|Portable|Monitoring|etc]) on W4FJ ([2 meters|70 centimeters|23 centimeters]) crossband on W4FJ ([2 meters|70 centimeters|23 centimeters])
    - Example: "K8OI Mobile on W4FJ 70 centimeters crossband on 23 centimeters"
- “Busy Lockout” is encouraged, but not required.
- All D-Star registered operators are welcome to link or unlink the repeaters
- D-Star Linking method:
  - NOTE: The 2 meter (VHF), Port C module is typically linked to REF025B during the work week from 07:00 - 19:00. Feel free to unlink as you wish.
  - Check the status of the repeater
    - URCALL
      - Set the field to (Your Callsign) with an "I" (India) in the 8th position.
      - Example: “K8OI I” (3 spaces after the I)
    - RPT2
      - Set the RPT2 setting to “W4FJ G” (3 spaces after the J)
      - This setting tells the D-Star Gateway to “read” the URCALL setting
      - Key up the repeater. This will trigger an announcement with the current state of the link.
  - Ensure nobody else is using the link or the repeater before linking/unlinking.
  - Unlink or Link the repeater as you desire.
  - When you are finished using the link please return it to the previous state
Transceiver Configuration for RF traffic:
- MYCALL - You are REQUIRED to use your callsign. This is the callsign used for station identification and is required by the FCC for proper identification.
- RPT1 - You must use the appropriate port configuration. For example, if you are using the “Port B” (UHF) module, RPT1 must contain “W4FJ B” (3 spaces after the J)
- RPT2 - Must contain “W4FJ G” (3 spaces after the J)

DVAP, Dongle, HotSpot, etc. connections are permitted.
- MYCALL - You are REQUIRED to use your callsign. This is the callsign used for station identification and is required by the FCC for proper identification.

GPS Auto Beaconing is not permitted.

GPS data sent during a normal, manual transmission is permitted.