Black Rail remote broadcast unit timer programming

Adam Smith, USFWS Southeast Inventory and Monitoring (adam_d_smith@fws.gov)

Christy Hand, South Carolina DNR (handc@dnr.sc.gov)

29 April, 2019

Note, the following directions apply to the CN101 DC 12V digital programmable timer switch.

1. Clear/reset the timer.

a. Press the smaller, inset C button on the timer. After a few seconds, the unit will reset. This ensures you are working from a clean slate before each deployment.

2. Set the day of the week and time of the timer.

- a. Visit time.gov for current official time.
- b. If the timer is locked (i.e., there is a \exists icon in the lower left corner of the display), press the \mathbb{C}/\mathbb{R} button 4X.
- c. While holding the Θ button, use the D+ button to set the current day of the week, the H+ button to set the current hour, and the M+ button to set the current minute. If no button is pressed for 2 seconds while holding the Θ button, you will need to release the Θ button and push/hold it again to further adjust the day of week or time.

3. Put the timer into manual mode.

- a. If a \boxtimes icon (some older models), or ON is indicated along the bottom of the display, proceed to the next step.
- b. If no \boxtimes icon, or AUTO or OFF is indicated along the bottom of the display, press the MANUAL button until either the \boxtimes icon (some older units) or ON appears along the bottom of the display (newer units).

4. Set the remote broadcast unit program.

- a. Determine the broadcast sequence to be programmed using the BLRA Remote Broadcast Unit Sequence List.
- b. Every sequence available in step 4a requires scheduling the ON/OFF times for <u>three</u> programs. They <u>do not</u> necessarily occur on consecutive days. When programming a broadcast sequence, pay careful attention to the days of the week and the ON/OFF timing of the three programs.
- c. Consult the ARU programming calendar for the scheduled ON times of the three programs associated with the relevant sequence and start date of the broadcast sequence. Ensure you are using the programming schedule associated with the <u>start date of the broadcast</u>, not necessarily the current or set (deployment) date.
- d. Programming begins by setting the ON time for the first program (i.e., Program 1). Press the P button to advance to the programming interface. The timer display should indicate ON and the number 1.
- e. Repeatedly press the D+ button until the correct day of the week for Program 1 is indicated.
- f. Set the appropriate ON time for the program using the H+ and M+ buttons.
- g. Press the (P) button to advance and set the OFF time for Program 1, using an approach similar to that described in steps 4e 4f. Set the OFF time for 13 minutes after the ON time.
- h. Press the (P) button to advance to the ON time for Program 2. The timer display should indicate ON and the number 2.

- i. Repeat steps 4e 4g to set the ON and OFF day of the week and times for Program 2.
- j. Repeat steps 4h 4i to set the ON and OFF day of the week and times for Program 3.
- k. When finished setting the OFF time for Program 3, press the \odot button to exit the programming interface.
- l. Repeatedly press P to cycle through and double-check the days and ON/OFF times of the three programs against the ARU programming calendar.
- m. Repeat step 4l. Seriously...