**Requirement 7**

7. Visit a radio installation (an amateur radio station, broadcast station, or public service communications center, for example) approved in advance by your counselor. Discuss what types of equipment you saw in use, how it was used, what types of license is required to operate and maintain the equipment, and the purpose of the station.

Be sure that your counselor approves the visit that you make.

Read ahead to requirement 9. You have the option of learning about amateur radio, broadcast radio, or shortwave radio listening. The amateur radio option is very popular with scouts because that option allows you to conduct two-way communication and actually transmit your voice over the radio waves! If you elect option 9a, we recommend that your visit be to an amateur radio (ham radio) installation. You may be able to complete some of the 9a requirements, such as the on air communication of requirement 9a2, along with the visit of requirement 7.

**Questions to ask during your radio installation visit:**

1. What do the different pieces of equipment do and how are they used?
   a. What kind of transmitter is used?
   b. What kind of receiver is used?
   c. What kind of microphone or other sending device is used?
   d. What kind of antenna is used?
2. What kind of license is needed to operate the station?
3. What kind of license is needed to work on, or maintain, the equipment?
4. What is the main purpose of this radio station?