

CHAPTER 19

Operating Instructions for Radarbeacons

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19-1. GENERAL

19-1-1 Statistics—

A. The following forms should be completed for the particular unit concerned:

- (1) Name of Facility
- (2) Geographical location: Latitude
- Longitude
- (3) Name of unit to which attached
- (4) Installations and operating characteristics:

Freq. band	Equip-ment model	Serial No.	Code	Opera-tion hours	Interrog. freq. (mcs.)	Response freq. (mcs.)
X	1	1			9320 to 9430	9310
	2	2				
S	1	1			3267 to 3333	3256
	2	2				

19-1-5 Specific Instructions—

A. One of the X Band installations listed above and installed at the unit shall be in operation according to its operating characteristics at all times. No change in coding characteristics nor operating schedule shall be made without authority from Coast Guard Headquarters.

B. The alternate (stand-by) unit shall be placed in operation when the main (operating) unit fails or does not function properly and the duty technician and commanding officer or officer-in-charge shall be notified without delay. The defective unit shall be repaired and placed in proper operating condition as soon as possible.

C. The two units (main and stand-by) of each type shall be alternately placed into service in accordance with good engineering practice in order to evenly distribute wear and operation of the two units.

D. Each alternate (stand-by) equipment shall be tested and given such routine checks as required by

Instruction Book For Radarbeacon. AN/CPN-6, (NavShips 900,838) during the idle period and prior to its being placed into scheduled operation. The stand-by unit shall be maintained in a condition of ready operation at all times in order that it may be immediately placed into operation on the failure of the main unit with a minimum loss of time off the air.

E. *Readiness.*—Each operating unit shall be maintained in a continued state of normal operation. Each unit shall be checked and tested at least once daily.

F. *Liberty* shall be granted to the technician in accordance with the general policies and directives in effect, considering maximum efficient radarbeacon operation and maintenance. If more than one technician is assigned to a radarbeacon facility, liberty among them shall be regulated so that one technician is aboard at all times.

G. *Instruction.*—As many men as practicable attached to the unit shall be trained to switch the equipment in order that this operation may be performed with a minimum loss of time in event of failure when the technician is on liberty.

H. A copy of these radarbeacon operating instructions shall be placed in a folder and kept in the equipment room.

I. All personnel assigned any radarbeacon duties shall carefully read all items and acknowledge their being understood to the commanding officer or the officer in charge.

19-1-10 Log and Report Instructions—

A. A *daily log* shall be kept and signed by the man making the entry and approved by the commanding officer or the officer-in-charge. Daily log sheets shall be neatly written in ink or typewritten, and shall be kept in a monthly folder or notebook in the unit files. At the beginning of each year the unit will send to Headquarters, through proper channels, all logs in which the latest entry is more than one year old. Entries into the log shall include the following:

(1) All inspections, tests, and checks of equipment. Make certain the daily inspections are entered.

(2) All irregularities and failures pertaining to the operation of the radarbeacon, the approximate total time such irregularities and failures existed, and the action taken.

(3) Record of serial number of equipment currently in operation.

B. *Monthly report.*—Commanding officer or officer-in-charge of unit of which radar beacon installation is a facility shall submit monthly Radarbeacon Performance Report, Form CG-2972.

19-1-15 Reporting Defects—

A. The commanding officer or officer-in-charge shall be notified promptly of all failures, irregularities, or deficiencies in operation of the radarbeacon installations, and their correction.

B. *Action in event of deficiency.*—The commanding officer or officer-in-charge shall, upon being notified of any failure, irregularity, or deficiency in the operation of the radarbeacon installation, take appropriate action to effect corrections thereto with a minimum of delay according to the means available.

C. *Report deficiencies.*—The commanding officer or officer-in-charge shall report deficiencies in radar beacon operation as follows:

Condition 1.—Failure or improper operation of all equipment on any one frequency band:

(1) Notify the District Commander via the most rapid means of communications available; specify type of equipment, request assistance if needed, and estimate time off air.

(2) Enter particulars in Radarbeacon Log Book; include in monthly Radarbeacon Performance Report.

(3) Submit Form NCG-2643, Electronic Failure Report.

Condition 2.—Failure or improper operation of one unit with a standby unit operating satisfactorily, but repair of defective unit requiring assistance or additional equipment not at station.

(1) Notify District Commander via the most rapid means of communications available, stating equipment or assistance needed.

(2) Enter particulars in Radarbeacon Log Book; include in monthly Radarbeacon Performance Report.

(3) Submit Form NCG-2643, Electronic Failure Report.

Condition 3.—Failure or improper operation of one unit with standby unit operating satisfactorily and repair of defective unit possible by station personnel without assistance or additional equipment.

(1) Enter particulars in Radarbeacon Log Book; include in monthly Radarbeacon Performance Report.

(2) Submit Form NCG-2643, Electronic Failure Report.

D. Notification of radarbeacon's restoration to normal operation under conditions 1 and 2 above will be accomplished in the same manner in which deficiency was reported.

19-1-20 Duties of Technician—

A. The duties of the technician(s) assigned to the radar beacon facility are as follows:

(1) *Primary*

(a) Keep all radarbeacon equipment in operating condition, making such repairs as necessary.

(b) Make daily check of all radarbeacon equipment.

(c) Make such routine checks of radarbeacon equipment as are required.

(d) Prepare such radarbeacon reports and forms as are required.

(e) Keep the commanding officer or officer-in-charge informed at all times as to the status of the radarbeacon equipment building.

(2) *Secondary*

(a) Train unit personnel in routine checks and switching of radarbeacon equipment.

(b) Maintain the upkeep and cleanliness of the radar beacon equipment building.

(c) Such additional duties or watches as may be assigned by the commanding officer or officer-in-charge which do not interfere with performance of any of the above primary or secondary duties.

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