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1. Purpose

This Manual is intended to provide descriptive information of the Survivor Locator Light WAB-H18, information for its maintenance and overhaul, instruction concerning the proper mounting of the light on the life vests or life rafts to ensure continued compliance with prescribed minimum performance standards and pertinent operating instructions and limitations for the device.

Pursuant to FAR Part 37 (Section 37.191), this Manual is provided in six copies to the Chief, Engineering and Maintenance Branch, Flight Standards Division, Federal Aviation Administration, in the region in which the manufacturer is located.

2. Description of Device

The Survivor Locator Light WAB-H18 consists of a water-activated battery and a light assembly, connected by an electrical wire

The battery consists of a cuprous chloride cathode flanked by magnesium alloy anodes in an injection-molded plastic case. The case contains two holes, one on the bottom and one on the side near the top. The holes allow water to enter the cavities between the cathode and flanking anodes and act as an electrolyte.

The holes are covered with a water-soluble film, which allows automatic activation in less than 60 seconds when the battery is immersed in fresh water or seawater.

The light assembly consists of a 1.5-Volt miniature incandescent lamp mounted in a plastic bulb holder and covered by a clear plastic lens.

3. Operating Instructions

The battery of the WAB-H18 is activated automatically within 60 seconds of immersion of the battery in fresh water or seawater, and the light will light automatically.

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4. Maintenance and Overhaul Information

1. No maintenance is required.
2. Periodic overhaul is not required. Overhaul at end of life is not possible. Defective or passivated units must be returned to the manufacturer or otherwise disposed of.
3. Inspection of light assembly
 - a) Lamp Electrical Test:
 - i) Pierce the electric wire with two pins connected to a 1.5 VDC power supply. A zinc alkaline battery may be used in place of the power supply.
 - ii) Check that the lamp lights up. An inoperative light should be rejected and the light assembly replaced.
 - b) Battery test:
 - i) Replace light assembly is the battery thickness exceeds 0.690" at any point in the area of the markings.

5. Instructions for Mounting on Life Vests

1. The recommended method for mounting the WAB-H18 on life vests is:
 - a) Attach light assembly to vest at the fabric attachment point ring provided on vest, by first inserting lens through fabric attachment point ring and then pushing upper ring on plastic bulb holder through fabric attachment ring.
 - b) Attach battery firmly to vest harness by wrapping around several times with adhesive strip or other attachment means recommended by vest manufacturer.
2. An alternative method for mounting the WAB-H18 on life vests is:
 - a) Sew light assembly to vest light attachment point, attaching at any four of eight holes provided in lower ring of plastic bulb holder.
 - b) Continue as 5.1.b.

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6. Instructions for Mounting on Life Rafts

1. The recommended method for mounting the WAB-H18 on life rafts is:
 - a) Insert light assembly in raft light holder.
 - b) Insert battery in battery holder opposite the light holder.
2. Other means provided by raft manufacturer.

7. Limitations of the Device

1. The device is designed to provide light intensity of at least one (1.0) candlepower (cd) in all of the directions required by TSO-C85a, for a minimum of eight (8) hours after activation.
2. Once activated by immersion in water or any other conductive liquid, even if subsequently removed and dried, the device should not be used again as a safety appliance under TSO-C85a or equivalent.
3. The device is considered usable as a safety appliance, under TSO-C85a, as long as the battery does not show signs of swelling and the light bulb is operative.

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