FAA APPROVED ROTORCRAFT FLIGHT MANUAL SUPPLEMENT

Load Weigh System
for the
Sikorsky S-61L and S-61N
Model Helicopters

R/N _____ **S/N** _____

FAA Approved: _____
Manager, Seattle Aircraft Certification Office

for

Date:

Revised: 15 JUL 2011

GENERAL

This supplement must be attached to the appropriate FAA approved Rotorcraft Flight Manual when an Onboard Systems 200-243-00 or 200-243-01 Load Weigh System is installed in accordance with Supplemental Type Certificate (STC) No. SR00681SE.

The information contained herein supplements or supersedes the basic Rotorcraft Flight Manual only in those areas listed herein. For limitations, procedures and performance information not contained in this supplement consult the basic Rotorcraft Flight Manual and Rotorcraft Flight Manual Supplement for the cargo sling assembly

The Load Weigh System is a compliment to the helicopter lifting system. Its purpose is to display the weight of the load carried on the cargo hook. The Load Weigh System consists of three primary components: the cockpit mounted load indicator, the internal electrical harness and the load cell. The load cell is installed between the rotorcraft cable suspension and the cargo hook (not included with this kit).

SECTION 1 - LIMITATIONS

Weight Limits

The maximum allowable load is 12,000 lbs (5,443 kgs) or as specified by the Rotorcraft Flight Manual, whichever is less. The load weigh system's 12,000 lb load rating does **NOT** supersede the maximum allowable external load as specified by the Rotorcraft Flight Manual

Operation

The basic Rotorcraft Flight Manual and Rotorcraft Flight Manual Supplement for the cargo sling assembly remain applicable.

The load weigh indicator shall be operated in accordance with Section 3 of Owner's Manual 120-082-00.

Placards

Mounted adjacent to the Onboard Systems load indicator in full view of the pilot and co-pilot:

TURN THE WEIGHING SYSTEM OFF WHEN NAVIGATION EQUIPMENT IN USE. NO AIRCRAFT OPERATION SHOULD BE PREDICATED ON THE READING OF THE ONBOARD WEIGHING SYSTEM

Mounted adjacent to both the power switch and circuit breaker in full view of the pilot and co-pilot:

ELECTRONIC WEIGHING SYSTEM

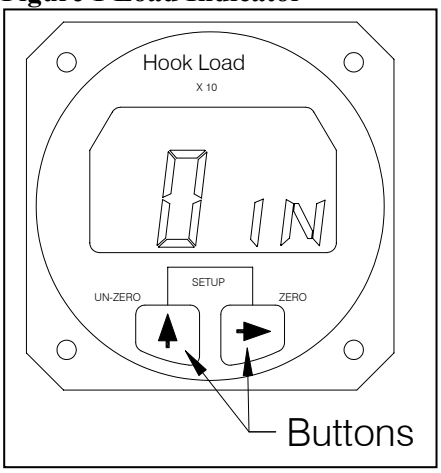
SECTION 2 - NORMAL PROCEDURES

Pre-Flight Check

Prior to a flight involving external load operations perform the following procedures. If the procedures are not successful do not use the equipment until the problem has been corrected.

1. Visually check the load cell electrical connections and electrical harness for damage and security.
2. Visually check the load cell fasteners for presence and security.
3. Initialize the Load Indicator per the following:
   Power on the Load Indicator and allow it to warm up for 5 minutes (with no load on the hook). Press both Indicator buttons at the same time to go to the setup mode. Scroll through the menu, using the left button, until "0 in" (see Figure 1) is displayed, then press the right button. Remove any weight from the cargo hook that is not to be zeroed out and press either button to complete the procedure.

Figure 1 Load Indicator



SECTION 3 - PERFORMANCE

The basic Rotorcraft Flight Manual and Rotorcraft Flight Manual Supplement for the cargo sling assembly remain applicable.

The Load Weigh System is designed and installed as a means of monitoring the load (weight) suspended from the cargo hook. Functional and performance characteristics have not been determined on the basis of the load cell indication or display. Therefore, this instrument shall **NOT** be used as a primary indication of performance and flight operation must **NOT** be predicated on its use.