



AVIATION SERVICES COMPANY

HTL/KIN-TECH DIVISION

## SERVICE INFORMATION LETTER

**TO: OWNERS/OPERATORS OF PACIFIC SCIENTIFIC  
COMPANY AIRCRAFT PRODUCTS.**

**SUBJECT: INFORMATION REGARDING HYDROSTATIC  
TEST, WEIGHT CHECK, AND UNIT SERVICING  
INTERVALS.**

**PURPOSE: THIS SERVICE INFORMATION LETTER (SIL)  
ADVISES OWNERS/OPERATORS OF  
MANUFACTURERS RECOMMENDATIONS FOR  
IN-SERVICE UNIT MAINTENANCE.**

1. INTRODUCTION

This document outlines in-service unit maintenance of Pacific Scientific products. This document was written due to the cancellation of FAA Order 8000.40D. This Service Information Letter will replace SIL 26-1115B, and is supplied in support of the 'MANUFACTURER'S RECOMMENDATIONS' described in HBAW 02-01A (Amended).

2. SCOPE/EFFECTIVITY

This SIL involves the entire Pacific Scientific pressure vessel productline and technical documents. The focus of HBAW 02-01 is aimed at Pacific Scientific's fire extinguisher productline.

3. REFERENCE

FAA Bulletin Number: HBAW 02-01 (background information)  
CFR 14 Parts 91,121,125,129,129.14, and 135 (air operations)  
CFR 49 Parts 100 to 185 (transportation regulations)  
Pacific Scientific SIL 26-0236 (weldment warranty)  
Pacific Scientific SB 26-1121 (OEM parts)  
Pacific Scientific SIL 26-0233 (cartridge information)  
Attachment

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### 4. DEFINITIONS

**Appliance** – Any component when installed on an airframe.

**Component** – Any unit that performs a task on the airframe.

**Sub-component** – Any subpart, subsystem, or item, included in or attached to a component sometimes called a detail part.

**Pressure Vessel** – Any component that can contain material under high pressure.

**Hazardous Material Shipment** – Any component presented for shipment that is considered a safety risk when not installed on an airframe.

**Hermetic Fire Extinguisher Unit** – A fire extinguisher unit that is seal by welded joints.

**Non-Hermetic Fire Extinguisher Unit** – A fire extinguisher unit that is sealed by rubber rings. Rubber sealing rings should be replaced every 5 years.

**Hydrostatic Test** – A test to insure the soundness of the pressure vessel. (weldment) **Pacific Scientific and 49 CFR only recognizes the water jacket volumetric expansion method of testing.**

**Weldment** – The pressure vessel unit that needs hydrostatic test.

**Cartridge** – Also known as “squib” is the primary fire extinguisher activator. Cartridges are hermetically and non-hermetically sealed. Cartridges are life limited and must be considered when developing a maintenance program for fire extinguisher units. See SIL 26-0233

**Weight Check** – A form of testing the unit to insure proper amount of agent is contained in the unit.

### 5. COMPLIANCE

None required for this document. Governing rules of the host country (DOT, FAA, JAA, CAA ) for handling and transportation must be complied with. There are different rules for high pressure vessels if installed as an “appliance” verses tendered for commercial shipping. Spare units not in full compliance with regulations may not be transported commercially to be installed on an airframe. Operators must carefully review local regulations for compliance.

### 6. TOOLS

None Required.



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### 7. Procedures

Please consult all governing agencies regulations (FAA, CAA, JAA, DOT) and airframe manufactures regarding the interval between hydrostatic test. It is the responsibility of the owner/operators of this equipment to have absolute understanding of all regulations. This equipment is subject to different rules when installed on an airframe verses being commercially transported. Owner/Operators must consider country regulations, airframe specifications, logistic fleet outstation supply requirements, and component maintenance servicing.

### 8. CONTACT, COST, AND AVAILABILITY INFORMATION

For any service issues please contact these sites information:

Pacific Scientific Aviation Services  
11700 N.W. 102<sup>nd</sup> Rd  
Miami, Florida 33178  
(305) 477-4711  
(305) 477-9799 fax  
SITA: MIAPSD  
[service@pacscimiami.com](mailto:service@pacscimiami.com)  
or

2156 W. Northwest Highway  
Suite 314,  
Dallas, Texas 75220  
(214) 574-4200  
(214) 574-4210 fax

Pacific Scientific Ltd.  
Howarth Road  
Maidenhead  
Berkshire SL6 1AP  
United Kingdom  
+44 (0) 1628 682 200 Phone  
+44 (0) 1628 682 250 FAX  
SITA: LHRPSCR  
or

Unit 6 Hagen-Park  
Miramstrasse 74  
34123 Kassel  
Germany

### 9. APPROVAL

None required.



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### 10. PACIFIC SCIENTIFIC MAINTENANCE RECOMMENDATIONS

ALL RECOMMENDATIONS BY THIS MANUFACTURER ARE BASED ON COMPONENTS THAT ARE FULLY COMPLIANT WITH AIRFRAME MANUFACTURER'S DESIGN APPROVAL.

AIRFRAME MANUFACTURERS AIRCRAFT TYPE CERTIFICATION IS PREDICATED ON THE USE OF QUALIFIED AND SPECIFICATION COMPLIANT COMPONENTS AND SUB-COMPONENT PARTS ONLY.

AVAILABLE THIRD PARTY PMA PARTS MAY OR MAY NOT MEET DESIGN SPECIFICATIONS AND QUALIFICATION CRITERIA AND ARE THEREFORE NOT RECOGNIZED BY THIS MANUFACTURER AS CAPABLE OF MAINTAINING THE DESIGN COMPLIANCE OF THE COMPONENT. USE OF PARTS NOT MADE BY PACIFIC SCIENTIFIC IS CONSIDERED NONCOMPLIANCE WITH ANY PACIFIC SCIENTIFIC CMM. PACIFIC SCIENTIFIC COMPANY WAIVES ALL WARRANTIES, RESPONSIBILITY, OR LIABILITY FOR THE PERFORMANCE OF ANY PACIFIC SCIENTIFIC PRODUCT THAT CONTAINS PARTS NOT MADE BY PACIFIC SCIENTIFIC.

UNITS CONTAINING NON-OEM PARTS DO NOT QUALIFY TO USE THESE "MANUFACTURER'S RECOMMENDATIONS."

THIS MANUFACTURER'S RECOMMENDATION IS TO REMOVE FROM SERVICE ANY COMPONENT NOT IN STRICT COMPLIANCE WITH THE DESIGN SPECIFICATIONS AND DESIGN APPROVALS AS DESCRIBED BY THE RESPECTIVE APPLIANCE'S CMM / IPL, INCLUDING ALL SUBCOMPONENTS CONTAINED THEREIN.



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## 10. PACIFIC SCIENTIFIC MAINTENANCE RECOMMENDATIONS

ITEM	TYPE OF SERVICE	INTERVAL
<b><u>Pneumatic Vessel Weldment</u></b> *Life Limit Based on 3HT	HYDROSTATIC TEST REMOVE FROM SERVICE AFTER 24 YEARS	CONTACT PACIFIC SCIENTIFIC 24 YEAR LIFE AS DEFINED BY DOT 3HT
<b><u>Non-Hermetic Fire Extinguisher</u></b>  Low Pressure Warning Switch  Cartridge Life Limit  Weldment	O-RING REPLACEMENT  WEIGHT CHECK  LOW PRESSURE SWITCH CHECK  CARTRIDGE REPLACEMENT  HYDROSTATIC TEST	NOT TO EXCEED 5 YEARS  HYDROSTATIC TEST OR BEFORE INSTALLATION FIRST YEAR AFTER INSTALLATION EVERY OTHER YEAR THEREAFTER  ACCOMPLISH AT WEIGHT CHECK  SEE SIL 26-0233  FROM FIRST MANUFACTURE DATE NOT TO EXCEED 5 YEARS OR WHEN DISCHARGED THEREAFTER NOT TO EXCEED 5 YEARS OR WHEN DISCHARGED
<b><u>Hermetic Fire Extinguisher</u></b>  Low Pressure Warning Switch  Cartridge Life Limit  Weldment	WEIGHT CHECK  LOW PRESSURE SWITCH CHECK  CARTRIDGE REPLACEMENT  HYDROSTATIC TEST	HYDROSTATIC TEST OR BEFORE INSTALLATION, EVERY 5 YEARS THEREAFTER  ACCOMPLISH AT WEIGHT CHECK  SEE SIL 26-0233  FROM FIRST MANUFACTURE DATE NOT TO EXCEED 10 YEARS OR WHEN DISCHARGED THEREAFTER NOT TO EXCEED 10 YEARS OR WHEN DISCHARGED
<b><u>Lavatory Fire Extinguisher</u></b>	WEIGHT CHECK	PRIOR TO INSTALLATION OR 1 YEAR AFTER INSTALLATION NOT TO EXCEED 5 YEARS THEREAFTER
<b><u>Diverter Valve</u></b>  Cartridges Life Limit	O-RINGS REPLACEMENT  CARTRIDGE REPLACEMENT	EVERY TEN YEARS  SEE SIL 26-0233
<b><u>Temperature Compensating Regulator</u></b>	O-RING REPLACEMENT FLOW TEST	EVERY TEN YEARS RETURN TO PACIFIC SCIENTIFIC
<b><u>Any Pacific Scientific Component containing unrecognized sub- component parts</u></b>	ANY AIRCRAFT INSTALLATION	REMOVE FROM SERVICE UNTIL DESIGN COMPLIANCE IS MET

\* Manufactured and Tested per Specification of 3HT. Therefore Life Limit based on 3HT.



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# **SERVICE INFORMATION LETTER**

## **ATTACHMENT**

### **WARRANTY AND LIMITATION OF LIABILITY.**

Seller warrants its product(s) to the original purchaser and, in the case of original equipment manufacturers, to their original customer, to be free from defects in material and workmanship and to be made in accordance with Buyer's specifications which have been accepted in writing by Seller. In no event, however, shall Seller be liable or have any responsibility under such warranty if the product(s) has been improperly stored, installed, used or maintained, or if Buyer has permitted any unauthorized modifications, adjustments and /or repairs to such product(s), Seller's obligation hereunder is limited solely to repairing or replacing (at its option), at its factory, any product(s), or parts thereof which prove to Seller's satisfaction to be defective as a result of defective materials or workmanship within twelve (12) months from date of Seller's invoice provided, however, that written notice of claimed defects shall have been given to Seller within thirty (30) days from the date any such defect is first discovered. The product(s) or parts(s) claimed to be defective must be returned to Seller, transportation prepaid by Buyer, with written specification of the claimed defect. Evidence acceptable to Seller must be furnished that the claimed defects were not caused by misuse, or neglect by anyone other than Seller.

THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES (EXCEPT AS TO TITLE), WHETHER EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR ANY PARTICULAR PURPOSE, OTHER THAN AS EXPRESSLY SET FORTH AND TO THE EXTENT SPECIFIED HEREIN, AND IS IN LIEU OF ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF SELLER. SELLER'S MAXIMUM LIABILITY WITH RESPECT TO THIS QUOTATION AND ANY RESULTING SALE, ARISING FROM ANY CAUSE WHATSOEVER, INCLUDING WITHOUT LIMITATION, BREACH OF CONTRACT OR NEGLIGENCE, SHALL NOT EXCEED THE PRICE SPECIFIED HEREIN OF THE PRODUCT(S) GIVING RISE TO THE CLAIM, AND IN NO EVENT SHALL SELLER BE LIABLE UNDER THIS WARRANTY OR OTHERWISE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, DAMAGE OR LOSS RESULTING FROM INABILITY TO USE THE PRODUCT(S), INCREASED OPERATING COSTS, LOSS OF PRODUCTION, LOSS OF ANTICIPATED PROFITS, OR OTHER SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER SIMILAR OR DISSIMILAR OF ANY NATURE ARISING OR RESULTING FROM THE PURCHASE, INSTALLATION, REMOVAL, REPAIR, OPERATION, USE OR BREAKDOWN OF THE PRODUCT(S), OR ANY OTHER CAUSE WHATSOEVER, INCLUDING NEGLIGENCE.

The foregoing warranty shall also apply to products or parts which have been repaired or replaced pursuant to such warranty for a period of twelve (12) months from and after the date such repaired or replaced products or parts are shipped by Seller provided, however, that such warranty shall cover only the specified items repaired or replaced.

Seller does not warrant (except as to title) any fabrics or plastic materials.

No person including any agent or representative of Seller, is authorized to make any representation or warranty on behalf of Seller concerning any products manufactured by Seller, except to refer purchasers to this warranty.

The only warranty applicable to products not manufactured by Seller, if any, shall be the warranty of the manufacturer or supplier thereof. Pacific Scientific Company waives all warranties, responsibility, or liability for the performance of any Pacific Scientific product that contains parts not made by Pacific Scientific.