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 02-01A is aimed at Pacific Scientific’s fire extinguisher productline.

3. REFERENCE
FAA Bulletin Number: HBAW 02-01A (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 26-0233A (cartridge information)
Attachment
SERVICE INFORMATION LETTER

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. 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 26-0233A
   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” versus 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.

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 Company
   11700 N.W. 102nd Rd
   Miami, Florida 33178
   (305) 477-4711
   (305) 477-9799 fax
   SITA: MIAPSXD
   service@pacscimiami.com

   and

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

9. **APPROVAL**
   None required.
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.

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.
### PACIFIC SCIENTIFIC MAINTENANCE RECOMMENDATIONS (cont)

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<tr>
<th>ITEM</th>
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<td>HYDROSTATIC TEST</td>
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<td>Any Pacific Scientific Component</td>
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<td>REMOVE FROM SERVICE UNTIL</td>
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<td>containing unrecognized sub-component parts</td>
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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.