



**Fire Protection Equipment**

AD/FPE/15 (continued)

| <b>Overland Aviation Services cartridge part numbers</b> | <b>Walter Kidde Aerospace (WKA) fire extinguishing system (Firex) bottle assembly basic part number</b> | <b>Make/model of applicable aircraft</b>   | <b>Cartridge lot number</b>          |
|--|---|--|--------------------------------------|
| OA873571   | 892807, 892857, 893244, 899827, 899927  | Boeing 707-100, -100B Series, -300 Series, 720B; McDonnell Douglas DC-8, DC-8F Series; DC-9 Series; Lockheed 382, 382E, 382F, 382G | SBI 2-2                              |
| OA876296   | 472602, 472603, 473598, 895240, 895564, 895678, 895683, 895877, 896054, 898150                          | McDonnell Douglas DC-9-81, DC-9-82, DC-9-83, DC-10 Series; Airbus A300 Series  | SBI 1-1, OAS 1-1                     |
| OA876299   | 472268, 895656, 895752, 895848, 896165, 896166, 897785, 897797, 897798                                  | Lockheed L-1011 Series   | SBI 1-1                              |
| OA897776   | 472258, 472428, 897775, 897869, 897885, 897899, 899066, 899074, 899170, 899486                          | Canadair CL-600-1A11, CL-600 -2A12, CL-600-2B16; Embraer EMB-120, EMB 120RT; Sikorsky S-76A; SAAB 340 Series                       | SBI 1-4, SBI 1-15, SBI 1-16, OAS 1-1 |

- Requirement:
1. Check the maintenance records of the aircraft to determine whether an extinguishing system bottle cartridge referenced in the above chart is installed.
  2. Remove from service any fire extinguishing system bottle cartridge referenced in the above chart.

## Fire Protection Equipment

AD/FPE/15 (continued)

3. Check the maintenance records of the aircraft to determine whether an extinguishing system bottle cartridge referenced in the above chart had previously been installed and operated to discharge a fire bottle. If such a cartridge has been identified, while carrying out requirement 1 of this Airworthiness Directive, inspect the discharge tube(s) of the fire extinguisher system for debris that may have exited the discharge valve.
4. Replace cartridges removed at Requirement 2 with one's that do not have OAS part numbers, referenced in the above chart, that were distributed from 1 April 1996, to 15 September, 1997.
5. From the effective date of this Airworthiness Directive, no person may install, on any aircraft, any OAS fire extinguishing system bottle cartridge listed in the above chart that was distributed from 1 April, 1996, to 15 September, 1997.

*Note: FAA AD 2001-22-14 amendment 39-12493 and Overland Aviation Services Service Bulletin (SB) 22-09-97 refers.*

**Compliance:** For requirements 1, 2, 3 and 4: Within 120 days from the effective date of this Airworthiness Directive.

This Airworthiness Directive becomes effective on 18 April 2002.

**Background:** OAS received reports of incidents where inspections of the fire extinguisher assemblies after a bottle discharge revealed damage to the associated discharge valve. This was caused by the release of excessive energy during functioning. OAS investigation indicates that although steel filter screens appear to absorb most of the released energy, aluminium screens may fracture during functioning and allow debris from the discharge valve to be discharged into the distribution tube. To prevent a fire extinguishing system not operating properly, this Airworthiness Directive requires removal and replacement of fire extinguisher bottle cartridges distributed by OAS during a particular period, and an inspection of the aircraft's fire extinguisher system should records indicate that a discharge of a fire extinguisher bottle has taken place using a suspect cartridge.



Eugene Paul Holzapfel  
Delegate of the Civil Aviation Safety Authority

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