

UNAPPROVED PARTS NOTIFICATION

No. 99-098

November 1, 1999

AFFECTED AIRCRAFT: Large Transport Category

PURPOSE: The purpose of this notification is to advise all owners, operators, maintenance entities, and manufacturers of large transport category aircraft of improper repairs performed by third parties other than the manufacturer (Crane Hydro-Aire) that are found on fuel pumps used on Boeing and McDonnell Douglas aircraft, and to solicit information concerning such repairs. It is possible that these repairs may not be limited to fuel pumps used on Boeing and McDonnell Douglas aircraft or Crane Hydro-Aire fuel pumps.

BACKGROUND: During three Suspected Unapproved Parts investigations, it was discovered that repairs not approved by Hydro-Aire (i.e., soldering, wire splicing, low-grade sleeving) and non-OEM parts were installed in several Crane Hydro-Aire fuel pumps used on both Boeing and McDonnell Douglas aircraft. The soldering method employed in these repairs is not a reliable method and could cause arcing, thermal stress, and degradation of the electrical insulating capabilities of the sleeving. Such repairs could present a safety hazard.

RECOMMENDATION: Please review all available current and historical records concerning the repair or overhaul of large transport category aircraft fuel components (boost, override/jettison, scavenge, and other types of fuel pumps) for evidence of improper repairs or unapproved parts.

FURTHER INFORMATION: The Federal Aviation Administration (FAA) would appreciate any information available regarding this matter. Attached to this notification is a checklist that may be used to convey such information. Send all available information (manufacturer, part number, serial number, owner, aircraft make/model, maintenance provider, type of improper repair, name of suspected unapproved part, etc.) to: FAA, Eastern Region Hq, Flight Standards Division Office, Attention: Salvatore Scalone, AEA-230B, JFK Int'l. Airport, Fitzgerald Federal Building, Jamaica, NY 11430, telephone (718) 553-3249, fax (718) 995-5696.

SAFETY CHECKLIST

1. Do you maintain Crane Hydro-Aire Component Maintenance Manuals (CMM) in your technical library? yes no
2. Do you have Crane Hydro-Aire Service Information Letter (SIL) No. 60.703-2-12, issued March 1, 1999? yes no
3. Do you repair Crane Hydro-Aire fuel pumps within your facility? yes no
4. Do you use a repair station outside of your facility to repair the Crane Hydro-Aire fuel pumps for your utilization or resale? yes no
5. Have you evaluated your fleet of aircraft to determine if you utilize Crane Hydro-Aire fuel pumps in your fleet? yes no
6. Have you resold Crane Hydro-Aire fuel pumps to operators or parts distributors? yes no
7. Have you experienced failures of the Crane Hydro-Aire fuel pumps in your operation? yes no
8. Do you use another manufacturer's fuel pump in your fleet? yes no
9. Have you or your repair station vendor identified any improper repairs or unapproved parts in Crane Hydro-Aire fuel pumps? yes no