

GKN Aerospace
Chem-tronics Inc.

Chem-tronics'
FYI
FOR YOUR INFORMATION

*News and technical
information for engine repair
and aircraft maintenance
professionals*

Update

May 1999

Pratt Certifies Chem-tronics to apply HVOF Coatings on JT9D, PW2000 & PW4000 fan blades

El Cajon, California

Pratt & Whitney has issued approval to Chem-tronics' El Cajon facility to apply PWA36206-1 HVOF hard face coating to the fan blade mid span shroud faces of its large thrust engines. This includes all models of the JT9D and PW2000 engines and for the 96" diameter fan for the PW4000 engines.

The El Cajon facility has installed the latest in laboratory testing equipment and computer controlled robots to assure consistent coating quality and thickness for the application of PWA36206-1 tungsten carbide/cobalt hard face coating. This is the first approval that Pratt & Whitney has issued to allow this proven HVOF coating system on the larger fan blade mid spans.

Chem-tronics has been applying PWA36206-1 hard face to fan blade mid spans for all models of the JT8D, JT3D and TF33 engines since mid 1996 in its Tulsa, Oklahoma facility.

As a part of this qualification program with Pratt & Whitney, an on-the-wing flight test evaluation was made with a major airline. This test included other HVOF applied coatings together with the baseline standard PWA46 (D Gun) using JT9D-7A and JT9D-7R4 engines.

Chem-tronics is continuing in its technical efforts with Pratt & Whitney to expand the HVOF applied coatings to different type powder alloys. These new HVOF coatings will

be issued as a dash number under the PWA 36206 specification. This will allow the use of a proven, non-proprietary plasma application system for such alloys as chrome carbide. When this happens, Chem-tronics will be ready to provide the service.

Chem-tronics Delivery of Tay650 Combustion Discharge Nozzles Surpasses 2000th Unit

One of GKN Aerospace Chem-tronics' little known repair services involves the repair and modification of the Tay650 Combustion Discharge Nozzle. In response to an American Airline requirement Chem-tronics initiated

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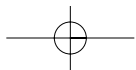


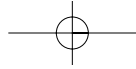
Interlake merges with GKN plc of UK

GKN Aerospace

Early this year our parent, Interlake Corporation, became a wholly owned subsidiary of GKN plc. With the merger, Chem-tronics is now a part of GKN Aerospace, an operating division of GKN plc. GKN is a \$5.5 billion company whose headquarters is on the Isle of Wight, which is situated off the South Coast of England, 70 miles from London. GKN Aerospace has sales of over \$500 million with manufacturing plants in United Kingdom, Germany, Connecticut, Alabama, California and Texas. Its principle products are aerospace structures made from composite and metal materials as well as nacelles for turboprops and turbofan applications. Aside from these mainstream activities, it also produces transparencies, electro-thermal de-icing systems for helicopters and transmission for helicopter and fixed wing aircraft.

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Approval Granted to Repair Rolls-Royce Allison Compressor Case for AE2100A, AE3007A, and AE3007C Engines

Rolls-Royce Allison Engine Company has granted Chem-tronics' El Cajon Facility technical approval for repairs to return the compressor case to serviceable condition for the AE2100, AE3007A and AE3007C engines. GKN Aerospace Chem-tronics inspects and restores the blade track rub strips. The AE2100A approval also includes the restoration of the outside diameter rub button pads.

The AE2100 is currently used on the SAAB 2000 and the C130J military cargo aircraft. This engine will also be used on the IPTN 250. The AE3007A & AE3007C engines are used on the Cessna Citation, the Embraer EMB-145 and EMB-135.

GKN Aerospace Chem-tronics is the supplier to Rolls-Royce Allison Engine

Company for the new manufacture of these cases utilizing our Unistructure technology that provides a reduction in both cost and weight.



Rolls-Royce Allison Compressor Case



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GKN / Interlake Merger *(continued)*

GKN foresees Chem-tronics as a part of a larger, higher growth element of its aerospace business. Chem-tronics and its Aviation Repair Division will continue to operate under the same management with the backing of GKN Aerospace.

Tay650 Nozzles *(continued)*

delivery in September 1996. The program has expanded to support other airlines and overhaul centers. Delivery of the 2000th unit was recently achieved. These nozzles are modified to be compatible with the Tay Ped Head Combustion Liner introduced by Rolls Royce that provides improved service life for both the nozzle and liner.

An Introduction to our Customer Service Representatives



Vicki Plourde Jennifer Melemed Sally Hagar Julie JuVette Shirley Kolpacoff

This past year Chem-tronics has expanded its Customer Service Team to better serve our worldwide customer base. Sally Hagar is manager of our customer service group with the assistance of the follow representatives:
 Vickie Plourde – Responsible for customers in North, South and Central America.
 Julie JuVette – Responsible for customers in the Pacific Rim Countries and Asia.
 Jennifer Melemed – Responsible for

customers in Europe, Africa, the Middle East, and Canada.
 Shirley Kolpalcoff – Responsible for our Tulsa Facility product lines.
 Chem-tronics now provides coverage in our Tulsa Facility from 8 a.m. to 5 p.m. (CDT) and in our El Cajon Facility from 5 a.m. to 5 p.m. (PDT). Our Tulsa address is:
 1550 North 105th East Avenue, Tulsa, OK 74116. Phone: 918-835-9300

International Aero Engine V2500 Fan Module Components

Chem-tronics has now received FAA approval to accomplish all applicable inspections and VRS's (Repairs) for the IAE V2500 Engine Fan Blade, Annulus Filler and Fan Disc. This work is being done in our Tulsa, Oklahoma Repair Facility. The Stage 1 Fan Blades cover P/N 6A3494 and

6A3971. Part Numbers for the Annulus Fillers are 5A0353, 5A1459, 5A1611, 5A1638, 5A1710, 5A1750, 5A1752, 5A1753, AND 5A6533. Part Numbers for the Stage 1 Fan Disc are 5A0269 and 5A0337.

