Thermax® 8 Levels on DC9 Aircraft

Title Thermax 8 Levels on DC9 Aircraft

Sector Aerospace

Overview

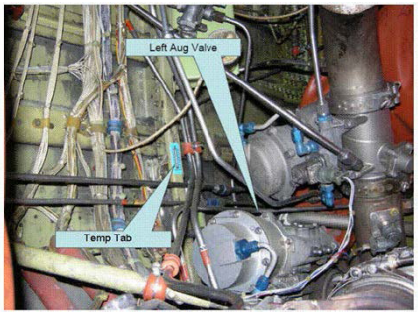
Introduction/Project

Electrical temperature switches are fitted on board DC9 aircrafts that indicate to the flight deck when the temperature in the tail compartment has exceeded the allowable temperature. This flight deck indication can send a taxing aircraft back to the gate and sometimes to return from a flight.



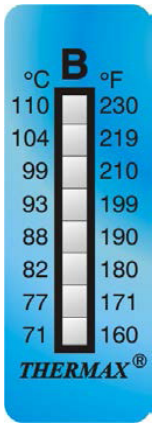
Aim

During operation of the environmental control system, (housed in the tail compartment), the enclosed area is typically around 38°C/100°F. The maintenance operators needed a way to check for any increases in temperature that could cause issues whilst the aircraft is in use.



Solution

Thermax® 8 Level B Labels are installed in the unpressurized tail compartment of the aircraft. The labels are installed on a structure adjacent to areas of the pneumatic system where leaks may occur. They are checked weekly as part of the aircraft maintenance program and during the weekly maintenance, the operator is checking the label to see if the 82°C/180°F event has activated. If the label has been activated, this tells the operator that there is a pneumatic leak that needs to be fixed. The temperature labels have helped realize a 75% reduction in tail temp high, (TTH), indications causing flight interruptions.



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