

	FIRE PROTECTION CREW REST COMPARTMENTS	1.26.57 P 1	
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SMOKE DETECTION

LOWER DECK MOBILE CREW REST COMPARTMENT

The Lower Deck Mobile Crew Rest (LDMCR) smoke detection system consists of :

- Smoke detectors ;
- A Crew Rest Smoke Detection (CRSD) control unit, located in the LDMCR ;
- A double channel Smoke Detector Control Unit (SDCU).

When a detector detects smoke in the LDMCR, it sends a signal to the CRSD, and :

- The horn in the CRSD control unit is activated.
- The related smoke detector indicator flashes on the CRSD control unit.
- The CRSD control unit sends a smoke signal to the SDCU.

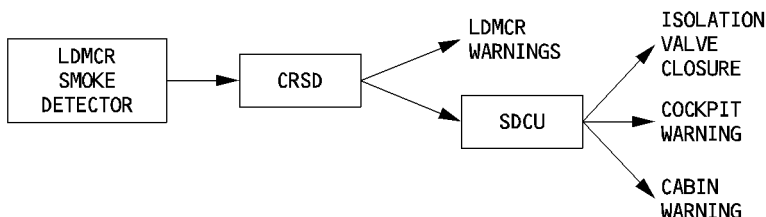
When the exit and emergency exit hatches are closed :

- The “DO NOT OPEN HATCH” sign comes on in the staircase housing.
- The CRSD control unit automatically discharges the fire extinguisher in the LDMCR.

The SDCU transmits the smoke signal to :

- The Flight Warning Computer (FWC), for a warning display in the cockpit.
- The CIDS, for a warning display in the cabin.
- The ventilation controller, which closes the ventilation isolation valve. In the LDMCR, the “LEAVE MCR” sign comes on, the low-flow buzzer activates, and the lights' intensity increases to 100%.

Note : The internal smoke detection system is only available when electrical power is supplied to the LDMCR.



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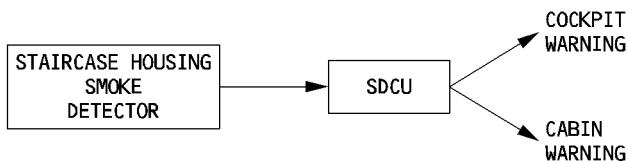
STAIRCASE HOUSING

The staircase housing's smoke detection system consists of :

- One smoke detector ;
- A double channel Smoke Detector Control Unit (SDCU).

When the detector detects smoke in the staircase housing, it sends a signal to the SDCU. The SDCU transmits it to the Flight Warning Computer (for a warning display in the cockpit), and to the CIDS (for a warning display in the cabin).

Note : *The internal smoke detection system is only available when electrical power is supplied to the LDMCR.*



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FIRE EXTINGUISHING

The fire extinguishing system operates either automatically or manually in the LDMCR.

It operates automatically through the CRSD, when :

- Smoke has been detected in the LDMCR, and
- The exit and emergency exit hatches are closed.

It operates manually, when the Fire Extinguishing System (FES) switch, in the staircase housing, is set to the position.

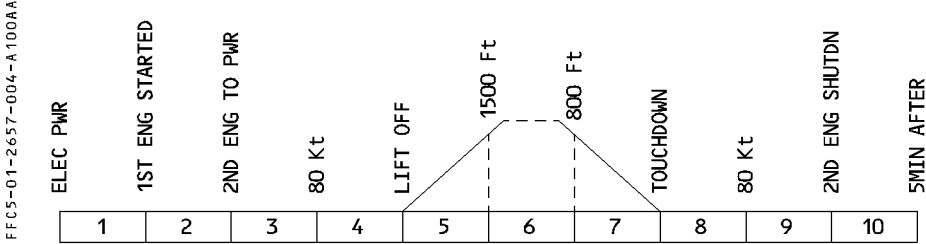
The automatic circuit (CRSD control unit) or the manual circuit (FES switch) ignite the squib on the fire bottle, which discharges a fire-extinguishing agent through the spray nozzles in the LDMCR.

Note : *The internal fire extinguishing system is only available when electrical power is supplied to the LDMCR.*

CAUTION

Selecting the FES switch activates the fire extinguishing system, regardless of whether smoke has been detected or not.

WARNINGS AND CAUTIONS



E/WD : FAILURE TITLE conditions	AURAL WARNING	MASTER LIGHT	SD PAGE CALLED	LOCAL WARNING	FLT PHASE INHIB
CAB REST SMOKE Smoke has been detected in the LDMCR, or in the staircase housing.	CRC	MASTER WARN	NIL	NIL	4, 5, 7, 8
CAB (FLT) REST DET FAULT	NIL	NIL			3, 4, 5, 7, 8