

DOCKET NO.: SA-515

**NATIONAL TRANSPORTATION SAFETY BOARD
WASHINGTON, D.C.**

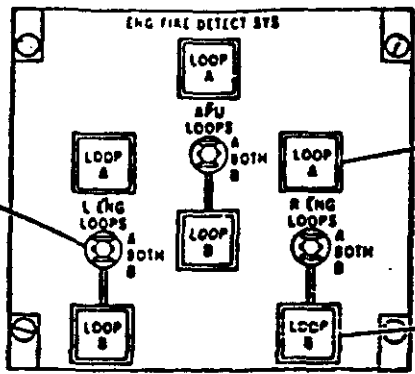
ATTACHMENT 12

**ENGINE FIRE HANDLE LOCATION
(1 PAGE)**

**BY: PAUL R. MISENCIK
AIR SAFETY INVESTIGATOR**

**EVAN BYRNE, Ph.D.
HUMAN PERFORMANCE INVESTIGATOR**

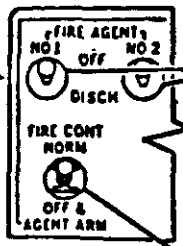
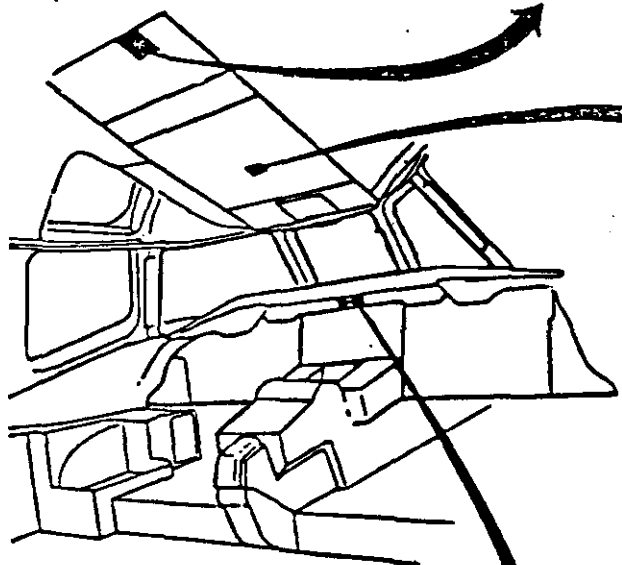
LOOPS SWITCH (L ENG, R ENG, AND APU)
Connects applicable engine or APU fire warning system to the selected (LOOP A, LOOP B, or BOTH) fire detection loop(s). Switches normally in BOTH except when isolating and testing suspected fire detection loop malfunction or one loop confirmed inoperative and opposite loop selected.



LOOP A & B LIGHTS (L ENG, R ENG, AND APU)
Illuminate when activated by associated fire detection loop or loops test switch. Indicates possible fire detection loop malfunction when a single loop (A or B) light illuminates and associated engine or APU fire warning light does not illuminate. Illuminates FIRE DETECTOR LOOP message and MASTER CAUTION lights.

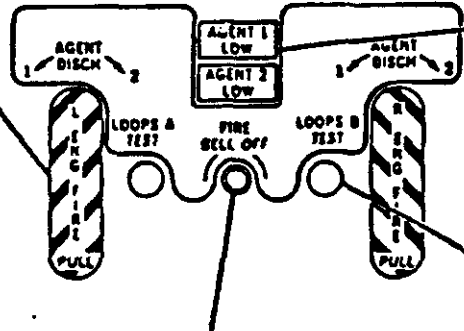
APU FIRE AGENT SWITCH (NO 1 AND NO 2)
(Momentary) Moving switch to DISCH with APU FIRE CONT switch in OFF & AGENT ARM discharges fire extinguishing agent into the APU compartment.

APU FIRE CONT SWITCH
NORM - Provides control power to APU master switch for normal operation.
OFF & AGENT ARM - Shuts down APU and arms APU FIRE AGENT switches for subsequent discharge of fire extinguishing agent.



ENGINE FIRE HANDLE (L AND R)
Provides fire warning indication and protection for the applicable engine. Lights within the handle are illuminated by engine fire detection system or test circuit.

Pulling a handle disables the aural warnings, trips the generator control relay, shuts off engine fuel and hydraulic pump supply, and closes the pneumatic crossfeed valve. Turning handle counterclockwise (or clockwise) discharges fire extinguisher agent from container -1 (or -2) around the engine case.



AGENT LOW LIGHT (1 AND 2)
Indicates fire extinguishing agent has been discharged (pressure below required minimum, AC power required).

LOOPS TEST BUTTON (A AND B)
Push to test associated fire detection system loop(s) circuits. The LOOPS switch(es) on the eng fire detect sys panel must be in the corresponding loop position or if BOTH position is selected, both LOOPS A and LOOPS B TEST buttons must be pushed simultaneously to activate fire warning systems test.

FIRE BELL OFF BUTTON
Push to silence aural warnings for engine fire.

