3.3.6. FIRE IN LAB
(EMER/5A - ALL/FIN B/MULTI)

SC1 ACTIONS IN SAFE HAVEN

A1. VERIFYING VENTILATION SHUT DOWN

PCS
Fire Summ: LAB Fire Display
LAB Fire Display
‘Fire Isolation’
‘Common Cabin Air Assemblies’
√ LAB1P6, LAB1S6 CCAA State – EIB Off
‘LAB IMV Isolation’
√ Status – Isolated
‘LAB MCA’
√ State – Standby (not applicable for rack fire in LAB1D6)

A2. If SC2 and SC3 do not find fire, smoke, or burning odor

Go to (4.403 ECLSS SSR-1: FALSE FIRE ALARM RECOVERY) (SODF: ECLSS: CORRECTIVE: FDS)

>>

If Rack SD has annunciated
sel ‘LAB Fire Rack Power’ (lower left)
LAB Fire Rack Power
√ Rack RPC(s) Position – Open (for rack indicating fire)

Go to (3.3.7. LAB FIRE SOURCE LOCATION SAMPLING) p. 3-12E (SODF: EMER: 3. FIRE).

A3. PARTIAL LAB POWERDOWN

Lab: EPS: DDCU LA1B Distribution: DDCU LA1B:
Converter

DDCU LA1B CONVERTER
cmd Off (single step cmd, Off – arm not required)
Verify - output voltage less than 12.8 volts
Evaluate effect of partial Lab powerdown in fire.

SC2, SC3 ACTIONS IN LAB

B1. Verify observation indication of smoke or fire

B2. If fire, smoke, or burning odor not present, inform SC1

Go to (4.403 ECLSS SSR-1: FALSE FIRE ALARM RECOVERY) (SODF: ECLSS: CORRECTIVE: FDS)

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If cabin fire is present
Go to step B3.
If rack fire is present
Go to step B8.
If firesource cannot be located, inform SC1

Go to (3.3.7. LAB FIRE SOURCE LOCATION SAMPLING) p. 3-12E (SODF: EMER: 3. FIRE).

B3. CABIN FIRE

Remove electrical power from fire source locally (light switch, UOP).

If fire extinguished
Go to step B4.

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Wear mask during/after extinguisher discharge.</td>
</tr>
<tr>
<td>2. Discharge may be propulsive.</td>
</tr>
<tr>
<td>3. Bottle and nozzle temp will drop below 0 deg</td>
</tr>
</tbody>
</table>

Use extinguisher as required on firesource.

B4. EGRESS LAB

If time and circumstances permit,

Remove all emergency equipment from lab emergency lockers: LAB1LKRF1 (Fwd Endcone), LAB1LKRA1 (Aft Endcone), and all equipment per (6.1. LAB EQUIPMENT SAFING AND RETRIEVAL) p. 6-1E (SODF: EMER: 6. EQUIPMENT SAFING).

Record CSA-CP readings, if time available.

CO _____________
HCl _____________
HCN _____________

SC2/SC3 ACTIONS CONTINUED ON NEXT PAGE
3.3.6. FIRE IN LAB

(EMER/5A - ALL/FIN B/MULTI) Page 2 of 2 pages

SC1 ACTIONS CONTINUED

**WARNING**

Next step completely powers down the lab. Perform it only if previous efforts to extinguish the fire have failed. **MCC-H GO** is strongly recommended, but not required, prior to proceeding.

A4. FULL LAB POWERDOWN
Lab: EPS; DDCU LA2B Distribution: DDCU LA2B: DDCU LA2B Converter

**cmd** Off (single step cmd, Off – arm not required)

Verify - output voltage less than 12.8 volts

Go to (3.6. LAB POST FIRE CLEANUP) p. 3-39E (SODF: EMER: 3. FIRE)

SC1 ACTIONS COMPLETE

SC2/SC3 ACTIONS (CONTINUED)

If orbiter docked to Lab Fwd
\· Lab Fwd Hatch closed
\· Lab Fwd Hatch MPEV – CLOSED, uncapped
\· Lab Fwd Port and Fwd Stbd IMV valves closed
\· Lab Aft Port and Aft Stbd IMV valves closed
\· Lab Aft Hatch MPEV – Closed, uncapped

Close LAB Aft Hatch per decal.

B5. Inform SC1, “LAB egress is complete” and report status of whether or not fire is extinguished.

B6. Sample air in PMA1, FGB cabin and SM cabin. Record readings in Table 2 of (3.3.7. LAB FIRE SOURCE LOCATION SAMPLING) pg 3-12 (SODF: EMER: 3. FIRE) and relay to MCC at next communication opportunity.

B7. If fire has been extinguished, go to (3.6. LAB POST FIRE CLEANUP) p. 3-39E (SODF: EMER: 3. FIRE) >>

RACK FIRE

**NOTE**

If present, Smoke Indication LED, located on Rack Power Switch at base of rack, may be lit, indicating the rack smoke detector has annunciated.

B8. Rack (Maint.) Power Switch – OFF
B9. Go to (3.3.7. LAB FIRE SOURCE LOCATION SAMPLING) p. 3-12E (SODF: EMER: 3. FIRE).

SC2/SC3 STEPS COMPLETE