The procedures below are the preliminary steps to inspect, sample, and analyze data in the initial effort to clear an aircraft for operational service following a Physiological Event (PE). All engineering direction shall be communicated through the AR in CRM tool.

Any questions regarding this report should be addressed to the Action Point engineer through the Customer Relationship Management tool or by contacting the F-35 Operations Center at 1-888-433-5677.

Date:        AR#: 

PROCEDURE START SECTION 1

Pilot Flight Equipment (PFE)

NOTE:
AT THIS TIME DO NOT CLEAN PFE AND DO NOT RETURN PFE TO SERVICE UNTIL DIRECTED.

1. Perform Physiological Event – Inspection per JTD module F35-AA(X)-A1354100000-284B-B:
   a. Record inspection results for each defect(s) noted for PFE.
2. Provide P/N and S/N of pilot's Mask, PIC and SPA.

<table>
<thead>
<tr>
<th>PIC</th>
<th>Mask</th>
</tr>
</thead>
<tbody>
<tr>
<td>P/N:</td>
<td>P/N:</td>
</tr>
<tr>
<td>S/N:</td>
<td>S/N:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SPA</th>
<th>Anti-Suffocation Valve</th>
</tr>
</thead>
<tbody>
<tr>
<td>P/N:</td>
<td>Preflight Date:</td>
</tr>
<tr>
<td>S/N:</td>
<td>Anti-Suffocation Valve Preflight Date:</td>
</tr>
</tbody>
</table>

Note any abnormalities found on each:

Review maintenance records for pilots mask, PIC, SPA, BOS, and OBOGGS. Note all maintenance below:

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Annotate any defect(s) noted during function test:

OBOGS SYSTEM

5. Perform Physiological Event – Inspection (Life Support Equipment) per JTD module F35-AA(X)-A1354100000-284B-A:

OBOGS Unit

P/N:

S/N:

6. Provide photos of any discrepancies and annotate findings below, and await further instruction.

END OF SECTION 1

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The below procedures (Form PART B Section 2) are optional at this time until otherwise directed by engineering following the flight data analysis. Engineering direction to perform PART B Section 2 will be provided in the AR.

**PTMS SYSTEM**

**NOTE:**

**OBTAIN SWAB SAMPLES AT ALL INSPECTION LOCATIONS IDENTIFIED BELOW. LABEL BOTTLES WITH LOCATION OF SOURCE. SUBMIT A CLEAN SWAB TO USE AS A SOURCE CONTROL REFERENCE.**

1. Perform Valve (Ram Air Isolation) – Removal (F35-AAX-A2182010000-520A-A)
   a. Take swab sample of Ram Air ducting.
   b. Borescope inspect Ram Air ducting to confirm no oil or PAO residue. Water droplets are okay. Capture photos and add to the AR.

2. Borescope inspect and obtain swab sample of PTMS cold air lines via the External Air Cooling receptacle (reference Cooling Air - Connecting (External), F35-AAX-A0514030000-730A-A) to confirm no oil or PAO residue through ground service air connection (forward & aft). Water droplets are okay. Capture photos and add to the AR.

3. Perform step 1 of Valve (Ground Maintenance Make-Up Air) – Removal (F35-AA*-A2112025000-520A-A)
   a. Visually inspect and take swab samples of duct 2CTV00283 to confirm no oil or PAO residue. Water droplets are okay.
   b. After swab samples are obtained, use clean rags and cotton swabs with deionized water and isopropyl alcohol to remove any foreign materials from accessible ducting.

4. Restore all disturbed components per JTD. Defer regression/leak testing of disturbed components until aircraft is cleared for maintenance.
   a. Send swab samples to below address and submit tracking info to the AR in CRM. Ensure to label samples individually with the location taken.
      
      Jack Miller (301) 342-8479
      Bldg 2187 Suite 1240-E9
      48810 Shaw Road
      Patuxent River, MD 20619
5. Obtain samples from the OBOGS unit.

**NOTE:**
TAKE PHOTOS PRIOR TO CLEANING AND POST CLEANING INSTRUCTIONS OF OBOGS FITTINGS.

**NOTE:**
OBTAIN SWAB SAMPLES AT ALL INSPECTION LOCATIONS IDENTIFIED BELOW. LABEL BOTTLES WITH LOCATION OF SOURCE. SUBMIT A CLEAN SWAB TO USE AS A SOURCE CONTROL REFERENCE.

a. Ensure areas to be inspected are free of dirt and debris by wiping with clean cloth and acetone.

b. Prepare tools to be used for maintenance by performing Tools, Oxygen System – Clean, F35-AAX-A3500000000-258A-B.

c. Put on supplied nitrile gloves.

d. Disconnect Flex-hose lines from OBOGS T-fitting ports as shown in Figure 1.

e. Obtain 4 swab samples (one from each side).

   I. OBOGS Inlet Flex-hose MS8005J - Swab the inside lumen of the supply line taking care not to touch any external surfaces with the swab.

   II. OBOGS Inlet Bronze T-Fitting JSFF20W100410 - Swab the inside lumen of the supply line taking care not to touch any external surfaces with the swab.

   III. OBOGS Outlet Flex-hose MS8005H - Swab the inside lumen of the product line taking care not to touch any external surfaces with the swab.

   IV. OBOGS Outlet Green T-Fitting JSFF20D080408- Swab the inside lumen of the product line taking care not to touch any external surfaces with the swab.

f. Send swab samples to below address and submit tracking info to the AR in CRM. Ensure to label samples individually with location taken.

   Jack Miller (301) 342-8479
   Bldg 2187 Suite 1240-E9
   48810 Shaw Road
   Patuxent River, MD 20619
6. Torque AN818-10W nut fitting on OBOGS Inlet Flex-hose MS8005J to 260+/- 50 in-lbs (i,ii).

7. Torque AN818-8W nut fitting on OBOGS Outlet Flex-hose MS8005H to 190 +/- 30 in-lbs (iii,iv).

8. Defer the Life Support System – Operational Test, F35-AAA-A3500001000-320A-A for OBOGS Concentrator installation until completion or concurrently with the below Decay Test of the SPA installation/replace test.

Figure 1. OBOGGS four swab sample locations.
END OF SECTION 2