

# Registry Leaflet 7

## Emergency Response Guidance for Aircraft Incidents Involving Dangerous Goods

This Registry Leaflet consists of an example Flight Deck Checklist and four example Cabin Checklists for Dangerous Goods incidents during flight. These are examples are based on those published in ICAO Doc. 9481 Emergency Response Guidance for Aircraft Incidents Involving Dangerous Goods, this ICAO document includes the expanded checklists.

### Flight Deck Checklist for Dangerous Goods incidents

#### Example 1

Step	Actions
1	<b>FOLLOW THE APPROPRIATE AIRCRAFT EMERGENCY PROCEDURES FOR FIRE OR SMOKE REMOVAL</b>
2	<b>NO SMOKING SIGN ON</b>
3	<b>CONSIDER LANDING AS SOON AS POSSIBLE</b>
4	<b>CONSIDER TURNING OFF NON-ESSENTIAL ELECTRICAL POWER</b>
5	<b>DETERMINE SOURCE OF SMOKE / FUMES / FIRE</b>
6	<b>FOR DANGEROUS GOODS INCIDENTS IN THE PASSENGER CABIN, SEE CABIN CHECKLISTS AND COORDINATE FLIGHT DECK / CABIN ACTIONS</b>
7	<b>IF THE SITUATION PERMITS, NOTIFY ATC OF THE DANGEROUS GOODS BEING CARRIED</b>
<b>After landing</b>	
1	<b>DISEMBARK PASSENGERS AND CREW BEFORE OPENING ANY CARGO COMPARTMENT DOORS</b>
2	<b>INFORM GROUND PERSONNEL / EMERGENCY SERVICES OF NATURE OF THE ITEM AND WHERE STOWED</b>
3	<b>MAKE APPROPRIATE ENTRY IN MAINTENANCE LOG</b>
4	<b>COMPLETE PART 1 OF <a href="#">Form 30 Occurrence Report</a> AND SUBMIT TO THE IOMAR WITHIN REQUIRED TIMESCALES.</b>

## Cabin Checklist for Dangerous Goods incidents

### Example 1

#### Battery / portable electronic device (PED) fire / smoke

Step	Cabin Actions
1	<p><b>IDENTIFY THE ITEM</b></p> <p><i>Note - It may not be possible to identify the item (source of fire) immediately. In this case, apply Step 2 first, and then attempt to identify it.</i></p> <p><b>Caution:</b> In order to avoid injury from a flash fire, it is not recommended to open the affected baggage when there is any indication of smoke or flames.</p>
2	<p><b>APPLY FIREFIGHTING PROCEDURE</b></p> <ul style="list-style-type: none"> <li>• Obtain and use the appropriate fire extinguisher.</li> <li>• Retrieve and use protective equipment, as applicable to the situation.</li> <li>• Move passengers away from the area, if possible.</li> </ul> <p><i>Note - Actions should occur simultaneously in a multi-crew operation.</i></p>
3	<p><b>REMOVE POWER</b></p> <ul style="list-style-type: none"> <li>• Disconnect the device from the power supply, if safe to do so.</li> <li>• Turn off in-seat power, if applicable.</li> <li>• Verify that power to the remaining electrical outlets remains off, if applicable.</li> </ul> <p><b>Caution:</b> Do not attempt to remove the battery from the device.</p>
4	<p><b>DOUSE THE DEVICE WITH WATER (OR OTHER NON-FLAMMABLE LIQUID)</b></p> <p><i>Note - Liquid may turn to steam when applied to the hot battery.</i></p>
5	<p><b>LEAVE THE DEVICE IN ITS PLACE AND MONITOR FOR ANY REIGNITION</b></p> <ul style="list-style-type: none"> <li>• If smoke or flames reappear, repeat Steps 2 and 4.</li> </ul> <p><b>Caution:</b></p> <ul style="list-style-type: none"> <li>— Do not attempt to pick up or move the device;</li> <li>— Do not cover or enclose the device;</li> <li>— Do not use ice or dry ice to cool the device.</li> </ul>
6	<p><b>WHEN THE DEVICE HAS COOLED</b> (e.g. approximately 10 to 15 minutes)</p> <ul style="list-style-type: none"> <li>• Source a suitable empty container.</li> <li>• Fill the container with enough water (or other non-flammable liquid) to submerge the device.</li> <li>• Using protective equipment, place the device in the container and completely submerge in water (or other non-flammable liquid).</li> <li>• Stow and secure (if possible) the container to prevent spillage.</li> </ul>
7	<p><b>MONITOR THE DEVICE AND THE SURROUNDING AREA FOR THE REMAINDER OF THE FLIGHT</b></p>
8	<p><b>AFTER LANDING AT THE NEXT DESTINATION</b></p> <p>Complete Part 1 of <a href="#">Form 30 Occurrence Report</a> and submit to the IOMAR within required timescales.</p>

**Example 2****Overheated battery / electrical smell involving a portable electronic device (PED) – no visible fire or smoke**

Step	Cabin Actions
1	<b>IDENTIFY THE ITEM</b>
2	<b>TURN OFF THE DEVICE IMMEDIATELY</b>
3	<p><b>REMOVE POWER</b></p> <ul style="list-style-type: none"> <li>• Disconnect the device from the power supply, if safe to do so.</li> <li>• Turn off in-seat power, if applicable.</li> <li>• Verify that power to the remaining electrical outlets remains off, if applicable.</li> <li>• Ensure that the device remains off for the remainder of the flight.</li> </ul> <p><b>Caution:</b> Do not attempt to remove the battery from the device.</p>
4	<p><b>KEEP THE DEVICE VISIBLE AND MONITOR CLOSELY</b></p> <p><b>Caution:</b> Unstable batteries may ignite even after the device is turned off.</p>
5	<p><b>IF SMOKE OR FLAMES APPEAR</b></p> <ul style="list-style-type: none"> <li>• Apply BATTERY / PED FIRE / SMOKE Checklist as per example 1</li> </ul>
6	<p><b>AFTER LANDING AT THE NEXT DESTINATION</b></p> <p>Complete Part 1 of <a href="#">Form 30 Occurrence Report</a> and submit to the IOMAR within required timescales.</p>

**Example 3****PED inadvertently crushed or damaged in electrically adjustable seat**

Step	Cabin Actions
1	<b>NOTIFY OTHER CREW MEMBERS</b>
2	<p><b>OBTAIN INFORMATION FROM PASSENGER, BY ASKING HIM/HER</b></p> <ul style="list-style-type: none"> <li>• To identify the item.</li> <li>• Where he/she suspects that the item may have dropped or slipped into.</li> <li>• If the seat was moved since misplacing the item.</li> </ul>
3	<b>RETRIEVE AND USE PROTECTIVE EQUIPMENT, IF AVAILABLE</b>
4	<p><b>RETRIEVE THE ITEM</b></p> <p><b>Caution:</b> Do not move the seat electrically or mechanically when attempting to retrieve the item.</p>
5	<p><b>IF SMOKE OR FLAMES APPEAR</b></p> <ul style="list-style-type: none"> <li>• Apply BATTERY / PED FIRE / SMOKE checklist as per example 1.</li> </ul>
6	<p><b>AFTER LANDING AT THE NEXT DESTINATION</b></p> <p>Complete Part 1 of <a href="#">Form 30 Occurrence Report</a> and submit to the IOMAR within required timescales.</p>

## Example 4

## Fire involving dangerous goods

Step	Cabin Actions
1	<p><b>IDENTIFY THE ITEM</b></p> <p><i>Note - It may not be possible to identify the item (source of fire) immediately. In this case, apply Step 2 first, and then attempt to identify it.</i></p> <p><b>Caution:</b> In order to avoid injury from a flash fire, it is not recommended to open the affected baggage when there is any indication of smoke or flames.</p>
2	<p><b>APPLY FIREFIGHTING PROCEDURE</b></p> <ul style="list-style-type: none"> <li>• Obtain and use the appropriate fire extinguisher / check use of water.</li> <li>• Retrieve and use protective equipment, as applicable to the situation.</li> <li>• Move passengers away from the area, if possible.</li> <li>• Notify other crew members.</li> </ul> <p><i>Note.— Actions should occur simultaneously in a multi-crew operation</i></p>
3	<p><b>MONITOR FOR ANY REIGNITION</b></p> <ul style="list-style-type: none"> <li>• If smoke/flames reappear, repeat Step 2.</li> </ul>
4	<p><b>ONCE THE FIRE HAS BEEN EXTINGUISHED</b></p> <p>Apply <b>SPILLAGE OR LEAKAGE OF DANGEROUS GOODS</b> procedure:</p> <ul style="list-style-type: none"> <li>• <b>DON RUBBER GLOVES AND SMOKE HOOD</b></li> <li>• <b>MOVE PASSENGERS AWAY FROM AREA AND DISTRIBUTE WET TOWELS / CLOTHS TO REDUCE PASSENGERS INHALATION OF FUMES / SMOKE</b></li> <li>• <b>PLACE DANGEROUS GOODS ITEM IN POLYETHYLENE BAGS</b></li> <li>• <b>STOW POLYETHYLENE BAGS</b></li> <li>• <b>TREAT AFFECTED SEAT CUSHIONS / COVERS IN THE SAME MANNER AS DANGEROUS GOODS ITEM</b></li> <li>• <b>COVER SPILLAGE ON CARPET / FLOOR</b></li> <li>• <b>REGULARLY INSPECT ITEMS STOWED AWAY / CONTAMINATED FURNISHINGS</b></li> </ul>
5	<p><b>AFTER LANDING AT THE NEXT DESTINATION</b></p> <p>Complete Part 1 of <a href="#">Form 30 Occurrence Report</a> and submit to the IOMAR within required timescales.</p>