

## DANGEROUS GOODS PANEL

Dubai, 31 March to 4 April 2003

**Agenda Item 3: Resolution, where possible, of the non-recurrent work items identified by the (ANC) or the panel**

**3.4 Amendments to Doc 9481, *Emergency Response Guidance for Aircraft*  
: *Incidents involving Dangerous Goods***

### AIRCRAFT EMERGENCY RESPONSE DRILL - INFECTIOUS SUBSTANCES, AFFECTING HUMANS, UN 2814 AND INFECTIOUS SUBSTANCES, AFFECTING ANIMALS, UN 2900

(Presented by J. Code)

#### 1. BACKGROUND

1.1 The Aircraft Emergency Response Drills as shown in Table 4-1 of the ICAO Emergency Response Guidance for Aircraft Incidents Involving Dangerous Goods, 2001/2002 Edition, are for the guidance to crew members when an incident occurs in flight which is, or might be, related to a particular package, or packages, containing dangerous goods.

1.2 The 'Drill Number' of the Drill Code assigned to an item of dangerous goods corresponds to a line of information concerning the risk posed by that substance and guidance on the preferable action that should be taken. The 'Drill Letter' of the Drill Code is shown separately on the drill chart and indicates other possible hazards of the substance.

1.3 For Infectious Substances, affecting humans, UN2814, and Infectious Substances, affecting animals, UN2900 the Drill Code is:

UN No.	Drill Code	Proper Shipping Name
2900	6L	Infectious substance, affecting animal
2814	6L	Infectious substance, affecting humans

**Drill Code 6L is:**

<b>Drill No.</b>	<b>Inherent Risk</b>	<b>Risk to Aircraft</b>	<b>Risk to Occupants</b>	<b>Spill or Leak Procedure</b>	<b>Fire-Fighting Procedure</b>	<b>Additional Considerations</b>
6	Toxic, may be fatal if inhaled, ingested or absorbed by the skin	Contamination with toxic liquid or solid	Acute toxicity, effects may be delayed	Use 100% oxygen; establish and maintain maximum ventilation; do not touch without gloves	All agents according to availability; no water on "W" drill letter	Possible abrupt loss of pressurization; minimum electrics if "F" or "H" drill letter

**Drill letter "L" is:**

"Other risk low or none".

1.4 Health Canada and the Canadian Food Inspection Agency, the appropriate national authority for the health of humans and animals within Canada, believe that Drill Code 6L does not address the unique safety and contingency planning requirements for infectious substance incident management and may not be providing proper information for emergency response of crew members.

1.5 The bold type text in Row 3 of the following Table indicates the national health authorities concerns regarding the information provided and the bold type in Row 4 indicates the concerns of the Civil Aviation Directorate of Transport Canada on this issue:

<b>Drill No.</b>	<b>Inherent Risk</b>	<b>Risk to Aircraft</b>	<b>Risk to Occupants</b>	<b>Spill or Leak Procedure</b>	<b>Fire-Fighting Procedure</b>	<b>Additional Considerations</b>
6	Toxic, may be fatal if inhaled, or absorbed by the skin	Contamination with toxic liquid or solid	Acute toxicity, effects may be delayed	Use 100% oxygen: establish and maintain maximum ventilation; do not touch without gloves	All agents according to availability; no water on "W" drill letter	Possible abrupt loss of pressurization; minimum electrics if "F" or "H" drill letter
Row 3	Infectious substances are not toxic substances. Infectious substances may affect humans or	Infectious substances are not toxic substances.	Infectious substances are not toxic. However it should be emphasized that there may be delayed	Do not touch.	"W" drill letter does not apply to Infectious Substances.	Infectious substances do not possess flammable or ignitable properties and cannot impact on the pressurization of an aircraft.

	animals if inhaled, ingested or absorbed through the mucous membrane or an open wound.		effects.			
Row 4				An in-flight fire or severe turbulence may breach an Infectious Substance package, recirculation and ventilation must be kept to a minimum.	Although the use of water in fire extinguishers on board an aircraft is rare there are instances where it may be used. For Infectious Substances water creates a mechanism to spread the Infectious Substances and should not be used.	

1.6 Canadian Health Authorities also indicated that should there be an in-flight incident involving a leak of infectious substances, Drill Letter “L” may not be providing sufficient contingency information.

## 2. PROPOSAL

2.1 Table 4-2 of the ICAO Emergency Response Guidance for Aircraft Incidents Involving Dangerous Goods, 2001/2002 Edition modify the entries for UN 2900 and UN 2814 as follows:

UN No.	Drill Code	Proper Shipping Name
2900	11Y	Infectious substance, affecting animals
2814	12Y	Infectious substance, affecting humans

2.2 In Table 4-1 of the ICAO Emergency Response Guidance for Aircraft Incidents Involving Dangerous Goods, 2001/2002 Edition add the following new entries:

Drill No.	Inherent Risk	Risk to Aircraft	Risk to Occupants	Spill or Leak Procedure	Fire-Fighting Procedure	Additional Considerations
11	Infectious substances may affect	Contamination with Infectious Substances	Delayed infection to animals only.	Do not touch. Minimum recirculation and	All agents according to availability.	Arrange for a representative of the appropriate national

	animals only if inhaled, ingested or absorbed through the mucous membrane or an open wound.			ventilation in affected area.	No water on 'Y' drill letter	authority to meet the aircraft to ensure that the appropriate contingency plans are put in place. There may be considerable risk to animals associated with the transmission of an agent to the environment once the aircraft has landed.
12	Infectious substances may affect humans if inhaled, ingested or absorbed through the mucous membrane or an open wound.	Contamination with Infectious Substances	Delayed infection to humans or animals.	Do not touch. Minimum recirculation and ventilation in affected area.	All agents according to availability. No water on 'Y' drill letter	Arrange for a representative of the appropriate national authority to meet the aircraft to ensure that the appropriate contingency plans are put in place.

2.3 At the bottom of Table 4-1 of the ICAO Emergency Response Guidance for Aircraft Incidents Involving Dangerous Goods, 2001/2002 Edition add the following new Drill Letter:

Y = Depending on the type of Infectious Substance the appropriate National authority may be required to quarantine individuals, animals, cargo and the aircraft.

— END —