



DGP/20-IP/22  
2/11/05

## **DANGEROUS GOODS PANEL (DGP)**

### **TWENTIETH MEETING**

**Agenda Item 2: Development of recommendations for amendments to the Technical Instructions for the Safe Transport of Dangerous Goods by Air (Doc 9284) for incorporation in the 2007-2008 Edition**

#### **PACKING INSTRUCTIONS REFORMATTING**

(Presented by R. Richard)

## PACKING INSTRUCTION REFORMATTING

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### REFORMATTING WORK GROUP

- BEGAN 4 YEARS AGO.
- TWO DRAFTS HAVE BEEN DEVELOPED WITH THE CURRENT FORMAT OF THE ICAO TIs.
- THIS IS A THIRD DRAFT WHICH IS BASED ON THE SECOND REDRAFT ADOPTING A NEW FORMAT.

## STRUCTURE

- CLASS/DIVISION
- AIRCRAFT TYPE
- FORM
- THESE ARE THE BASIC CATEGORIES USED TO ASSIGN A PI.
- THE ADDITIONAL REQUIREMENTS ARE BASED ON THE SAME STRUCTURE.

## THIRD REDRAFT STEPS

- FIRST THE SECOND REDRAFT WAS COMPARED TO THE CURRENT PACKING INSTRUCTIONS IN THE 2005 ICAO TIs.
- ALL OF THE DIFFERENCES WERE IDENTIFIED AND NOTED.

## CHARTED THE OLD TO NEW SEE CHART #2

- LISTED EVERY SUBSTANCE BY CLASS/DIV, SUBSIDIARY RISK, PG AND WHETHER IT CAN BE TRANSPORTED ON A PAX OR CAO.
- LISTED THE INNER QUANTITY ALLOWED.
- LISTED THE PPRs.
- THE PI IT IS IN CURRENTLY AND THE ONE IT WAS MOVED TO DURING THE SECOND REDRAFT.

## OUTER QUANTITIES

INCLUDED THE CURRENT OUTER QUANTITIES FOR ALL OF THE SUBSTANCES.

- THIS SHOWED SOME CONSISTENCIES AND INCONSISTENCIES SO SOME SUBSTANCES HAD TO BE MOVED-NOT MANY.

## CRITERIA

- NO OUTER QUANTITIES WERE CHANGED OTHER THAN IDENTIFIED ON WORKING PAPERS TO THE PANEL.
- SOME INNER PACKAGING REQUIREMENTS (QUANTITY OR CONTAINER TYPE) ARE LESS RESTRICTIVE AND SOME ARE MORE RESTRICTIVE.

## CRITERIA (CONT)

- THIS WAS BASED ON THE PIs DEVELOPED BY THE WORKING GROUP – MOST OF THE CHANGES HAD ALREADY BEEN MADE BY THE REDRAFT.

## PPRs

- WHEN SUBSTANCES WERE REASSIGNED THE APPLICATION BECAME MORE DIFFICULT AS SUBSTANCES WERE MOVED AND THE PREVIOUS DESIGN FOR APPLICATION DID NOT APPEAR CONSISTENT.

## CHANGES

- SINGLE PACAKAGING APPLICATION WAS NOT CHANGED.
- CHANGES WERE IN THE APPLICATION OF THE OLD PPR 13 AND 2.
- IN MANY PIs THE USE OF ALUMINUM CONTAINERS IS NOW PERMITTED AND WAS PREVIOUSLY PROHIBITED SO THE PPR FOR CORROSION RESISTANT CONTAINERS WAS CHANGED IS SOME INSTANCES.

## PPR

- ALL PACKING INSTRUCTIONS HAVE THE REQUIREMENT TO MEET THE GENERAL PACKING AND THE COMPATABILITY REQUIREMENTS.
- THE APPLICATION OF THE REMAINDER OF THE ADDITIONAL PACKING REQUIREMENTS IS DETERMINED BY THE PACKING GROUP/AIRCRAFT TYPE/FORM OF THE SUBSTANCE.

## STANDARDIZES APPLICATION OF PPRS

- ABSORBENT MATERIAL WILL BE APPLIED WHEN REQUIRED BY THE PACKING INSTRUCTION.
- THE REQUIREMENT WILL BE STANDARDIZED BY AIRCRAFT TYPE / FORM / PACKING GROUP

## LIMITED QUANTITIES

- MOST OF THE REQUIREMENTS ARE IN THE PACKING INSTRUCTION.
- CONSIDERATION COULD BE GIVEN TO RELOCATING THE REMAINING REQUIREMENTS IN PART 3 TO APPROPRIATE SECTIONS AND ELIMINATING THAT SECTION.
- THE REQUIREMENTS ARE MUCH MORE APPARENT IN THE PACKING INSTRUCTION.

## TRAINING AND STANDARDIZATION

- TRAINING IS THE CORNERSTONE MANAGING PACKAGING RISKS INHERENT TO DANGEROUS GOODS AND TO AIR TRANSPORT.
- BY APPLYING THE PACKAGING REQUIREMENTS IN A SYSTEMATIC APPROACH, TRAINING CAN BE STANDARDIZED.

## ACCEPTANCE

- ACCEPTANCE PROCESS IS THE LAST LINE OF DEFENSE PRIOR TO TRANSPORTATION.
- HAVING A SYSTEMATIC APPROACH WILL MAKE IT EASIER TO IDENTIFY ANY NONCOMPLIANCE.
- TRAINING FOR ACCEPTANCE PERSONNEL CAN BE DEVELOPED ON THE SYSTEM.

## CONSISTENCY

- A CONSISTENT APPROACH WILL BE MORE EFFICIENT IN IDENTIFYING WEAKNESSES OR DEFICIENCIES IN PACKAGING METHODS.
- NEW SUBSTANCES CAN BE EASILY ASSIGNED A PACKING INSTRUCTION.
- COMPLIANCE WILL BE EASIER WITH CONSISTENT LANGUAGE AND A SYSTEMATIC APPROACH IN THE REGULATIONS.

## NUMBERING SYSTEM

CLASS/DIVISION/AIRCRAFT TYPE/FORM  
/SUFFIX

### **80PLA**

CLASS - 8

DIVISION – 0

PASSENGER – P

LIQUID - L

SUFFIX A

**80SP01** – SPECIAL

**80LQL** – LIMITED QUANTITY

## THE PACKAGING SYSTEM

- THE PACKAGING AND COMMUNICATING THE HAZARDS OF DANGEROUS GOODS ARE WHAT WE ALL RELY ON TO MITIGATE THE RISKS INHERENT TO DANGEROUS GOODS SO THEY MAY BE TRANSPORTED SAFELY.

Name	UN No.	Class or division	Subsidiary risk	Labels	State variations	Special provisions	UN packing group	Limited quantities	Passenger aircraft		Cargo aircraft	
									Packing instruction	Max. net quantity per package	Packing instruction	Max. net quantity per package
1	2	3	4	5	6	7	8					
n-Amylene	1108	3					I	Forbidden	30PLB	1 L	30CLB	30 L
n-Butylamine	1125	3	8				II	30LLQA	30PLC	1 L	30CLD	5 L
1-Bromobutane	1126	3					II	30LLQB	30PLD	5 L	30CLD	60 L
Potassium chlorate, aqueous solution	2427	5.1					II	51LLQA	51PLA	1 L	51CLB	5 L
Oxidizing solid, n.o.s.*	1479	5.1					I	Forbidden	51PSA	1 kg	51CSA	15 kg
Water-reactive solid, corrosive, n.o.s.*	3131	4.3	8				II	43LQSA	43PSA	15 kg	43CSC	50 kg