



WORKING PAPER

**DANGEROUS GOODS PANEL (DGP)
MEETING OF THE WORKING GROUP OF THE WHOLE**

Memphis, 30 April to 4 May 2007

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 2009/2010 Edition

2.6: Part 6 — Packaging Nomenclature, Marking, Requirements and Tests

6.3 PUNCTURE TEST FOR INFECTIOUS SUBSTANCES PACKAGINGS

(Presented by Captain Jiang Ru)

REVISION NO. 14

SUMMARY

This working paper seeks clarification from the working group on the intent of 6;6.3 a) of the Technical Instructions.

Action by the DGP-WG is in paragraph 2.

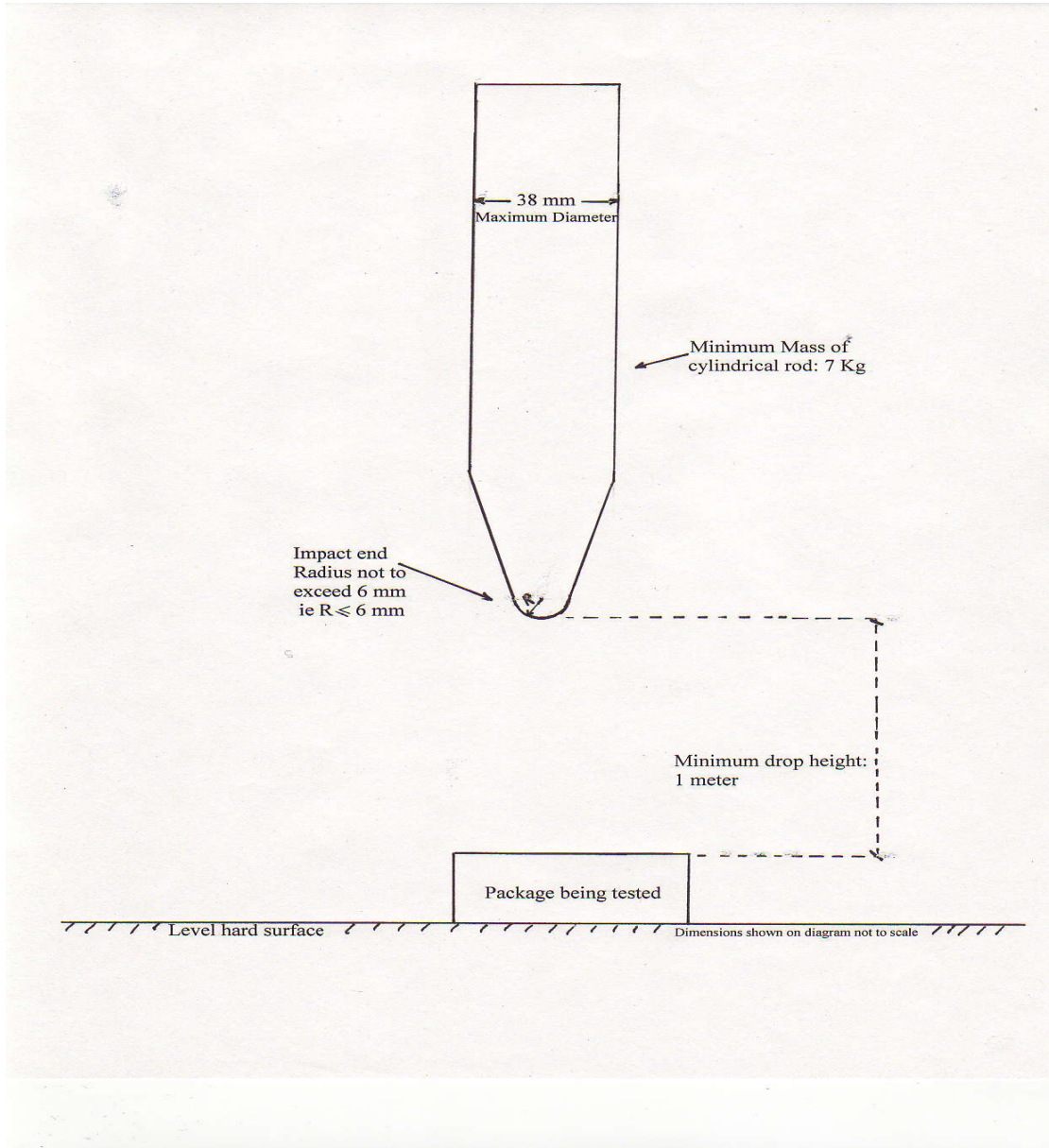
1. INTRODUCTION

1.1 The puncture test for infectious substances packagings with a gross weight of 7 kg or less is described on page 6-6-2 in 6;6.3 of the Technical Instructions. This test is described similarly in the UN Orange book, Volume II, Chapter 6.3, paragraph 6.3.2.6. The text refers to “A cylindrical steel rod with a weight of at least 7 kg (15.5 lb), a diameter not exceeding 38 mm (1.5 in) and the impact end edges of a radius not exceeding 6 mm (0.25 in) etc”. We are wondering whether the radius of 6 mm is “the radius of the impact end edge transverse section of the cylindrical steel rod” or “the radius of lengthways section of the hemisphere at the top of the cylindrical steel rod”. Several interpretations have been given to the equipment required to run the test. Also questions have been raised about the shape of impact end between the cylindrical steel rod and the sample: spherical, fastigiated or obtuse.

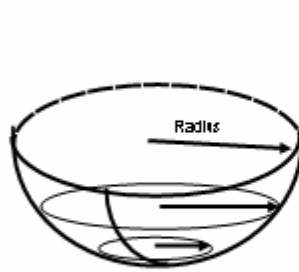
2. ACTION BY THE DGP-WG

2.1 The DGP-WG is invited to confirm the intent of the test, clarify its requirements, and amend the text if necessary.

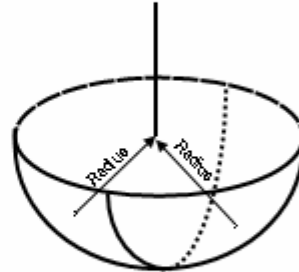
2.2 To help the discussion, the attached diagram is provided.



Puncture Test for Infectious Substances Packaging



Radius at different transverse sections



Radius of surface along a longitudinal direction

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