



WORKING PAPER

**DANGEROUS GOODS PANEL (DGP)
WORKING GROUP MEETING (DGP-WG/15)**

Montreal, 27 April to 1 May 2015

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 2017-2018 Edition

2.8: Part 8 — Provisions Concerning Passengers and Crew

**CORDLESS HAIR STYLING DEVICES
INCLUDING HAIR CURLERS AND HAIR STRAIGHTENERS**

(Presented by H. Sugimoto)

SUMMARY

This working paper proposes to modify the entry for hair curlers in Table 8-1 of the *Technical Instructions for the Safe Transport of Dangerous Goods by Air (Doc 9284)*.

Action by the DGP-WG: The DGP is invited to consider a revision to Table 8-1 of the *Technical Instructions* as shown in the appendix to this working paper.

1. INTRODUCTION

1.1 Table 8-1 contains the provisions for dangerous goods carried by passengers or crew. Item 11) of Table 8-1 provides an exemption for hair curlers containing hydrocarbon gas which requires that the safety cover must be securely fitted over the heating element to cover the risk of generating heat. However, a wide variety of hair heating products are used other than hair curlers. Regarding cordless models, they are not only powered by hydrocarbon gas but also by batteries.

1.2 Considering the risk of generating heat, we believe that the Item 11) entry in Table 8-1 should be changed to take account of other hair heating products, e.g. curling irons, straightening irons, crimping irons. We also believe that the provisions for some of these products powered by batteries should be addressed.

2. **ACTION BY THE DGP-WG**

2.1 The DGP-WG is invited to consider revising Item 11 to Table 8-1 as shown in the appendix to this working paper.

APPENDIX

PROPOSED AMENDMENT TO PART 8 OF THE TECHNICAL INSTRUCTIONS

Part 8

PROVISIONS CONCERNING
PASSENGERS AND CREW

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Table 8-1. Provisions for dangerous goods carried by passengers or crew

Items or articles	Location			Approval of the operator(s) is required	The pilot-in-command must be informed	Restrictions
	Checked baggage	Carry-on baggage	On the person			

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Articles used in dressing or grooming

10) Toiletry articles (including aerosols)	Yes	Yes	Yes	No	No	<ul style="list-style-type: none"> a) the term "toiletry articles (including aerosols)" is intended to include such items as hair sprays, perfumes and colognes; b) no more than 0.5 kg or 0.5 L total net quantity per single article; c) release valves on aerosols must be protected by a cap or other suitable means to prevent inadvertent release of the contents; and d) no more than 2 kg or 2 L total net quantity of all articles mentioned in 3), 10) and 13) (e.g. four aerosol cans of 500 mL each) per person.
11) Hair curlers containing hydrocarbon gas <u>Cordless hair styling devices (such as hair curlers, hair straighteners)</u>	Yes	Yes	Yes	No	No	<ul style="list-style-type: none"> a) no more than one per person; b) the safety cover must be securely fitted over the heating element; and c) gas refills for such curlers must not be carried.
<u>Cordless hair styling devices containing hydrocarbon gas</u>	<u>Yes</u>	<u>Yes</u>	<u>Yes</u>	<u>No</u>	<u>No</u>	<ul style="list-style-type: none"> <u>a) no more than one per person;</u> <u>b) the safety cover must be securely fitted over the heating element; and</u> <u>c) gas refills for such curlers must not be carried.</u>

Items or articles	Location			Approval of the operator(s) is required	The pilot-in-command must be informed	Restrictions
	Checked baggage	Carry-on baggage	On the person			
<u>Cordless hair styling devices powered by batteries</u>	<u>Yes</u>	<u>Yes</u>	<u>No</u>	<u>No</u>	<u>No</u>	<p><u>a) no more than one per person;</u></p> <p><u>b) the safety cover must be securely fitted over the heating element or the battery must be removed;</u></p> <p><u>c) if lithium metal or lithium ion cells or battery are used, these cells or batteries must comply with the following restrictions:</u></p> <ul style="list-style-type: none"> <u>— the batteries must be carried as carry-on baggage;</u> <u>— the batteries must be individually protected against short circuit (by placement in original retail packaging or by otherwise insulating terminals, e.g. by taping over exposed terminals or placing each battery in a separate plastic bag or protective pouch);</u> <u>— the batteries must not exceed the following:</u> <ul style="list-style-type: none"> <u>— for lithium metal battery, a lithium content of not more than 2 grams; or</u> <u>— for lithium ion battery, a Watt-hour rating of not more than 100 Wh;</u> <u>— the batteries must be of a type which meets the requirements of each test in the UN <i>Manual of Tests and Criteria</i>, Part III, subsection 38.3. lithium ion battery, a Watt-hour rating of not more than 100 Wh;</u>

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