

- x identification number UN 1845
- x proper shipping namef Carbon Dioxide, solid B _ } OEDry lce _
- x Accordance with Packing Instruction 954 (can be found in Appendix E

These are the basic requirements for shipments of dry ice

1. Gas venting: packages must allow for release of carbon dioxide gas. Dry ice must

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: do not use plastics that can be rendered brittle or permeable by the temperatif dry ice. This problem can be avoided by using commercially available packages intended to contain cice, see <u>u v μ (š μ Œ (Αδ</u>ερ[endix] Α)[ex.: SafT-Pak STP 310 or Source Packaging (500).

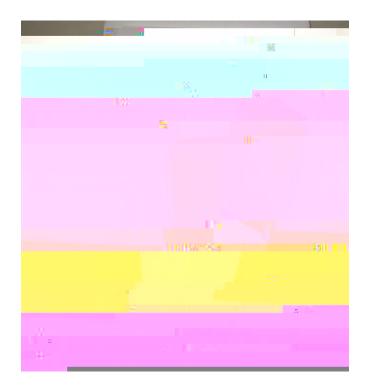
- 5. Marking the package. The shipping container must be marked with the following two labels, one on each opposite side of box
- a) $^{\wedge}$ OE $\}$ v] $\}$ Æ] or U^ \bullet QEoQ / _ U inhth Esi on one in English;
- b) The FULL name and address the shipper and consignee (where/who it is being ship) ped
- c) The net quantity of dry ice within each package in kilograms.
- 6. Labeling: the outermost container must be labeled with a hazard class 9 label, UN 1845, and net weigh of dry ice in kilogramsA printable version is included Mappendix D The label sould be affixed to a vertical side of the box (not the top or bottom) and oriented as Mappendix D The maximum allowable net quantity of dry ice allowed per package is 200 Rights cone of these labels on two opposing sides of the box.

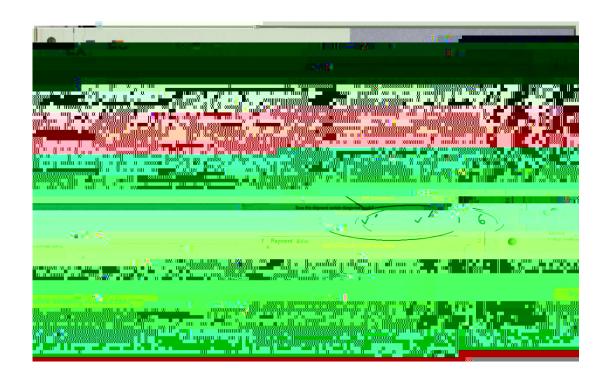
Appendix: Manufacturers of Dry Ice Shipping Containers

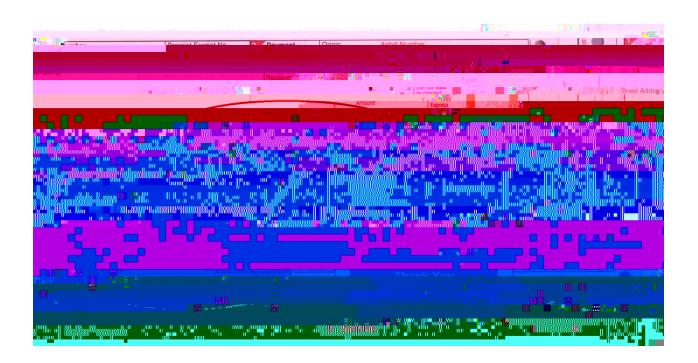
Air Se

Appendix B: Sample image of typical Dry Ice Shipping Container.

The typical Dry Ice shipping container features an internal foam core with cardboard box exemble Tape the Styrofoam to or the box topon tightly. Taping should be secure but NOT air tight.







Appendix E. PACKING INSTRUCTION 954 t Class 9t Miscellaneous Dangerous Goods STATE VARIATION SAG04 USG12

OPERATOR VARIATION DO 1 CA08 CO09 CS09 HP02 IG08 KE06 US02 VN11

This instruction applies to UN 1845 on passenger and cargo aircraft and CAO. The General Packing Requirements of **6**.0.2 must b met.

Carbon dioxide, solid (dry ice) in packages, when offered for transport by air, must be in packaging designed and constructed to permit the release of carbon dioxide gas and to prevent a **bupild** pressure that could rupture the packaging.

Arrangements between shipper and operator(s) must be made for each shipment, to ensure ventilation safety procedures are followed.

The Shipper's Declaration requirements of Subsections 8.1 and 10.8.1 are only applicable when the Carbon dioxide, solids (dry ice) used as a refrigerant for dangerous goods that require a Shipper's Declaration.

When a Shipper's Declaration is not require following information, as required by 8.2.3 for the Carbon dioxide, solid \sim CE Ç] \circ U \circ Z \rangle µ o \rangle V š] V Š Z \wedge E š µ CE V Y µ V š] Š Ç \rangle (' \rangle } \circ _ \rangle Æ \rangle V š Z] OF The content of the Carbon dioxide, solid \sim CE Ç] \circ U \circ Z \rangle µ o \rangle V Š Z \rangle V Š Z \rangle E Š µ CE V Y µ V Š] Š Ç \rangle (' \rangle) \circ _ \rangle Æ \rangle V Š Z] OF The content of the Carbon dioxide, solid \sim CE Q] \circ U \circ Z \rangle µ o \rangle V Š Z \rangle P \rangle W S Z \rangle P \rangle V Š Z \rangle P \rangle P \rangle V Š Z \rangle P \rangle P \rangle V Š Z \rangle P \rangle

- x UN 1845;
- x proper shipping name (Dry ice or Carbon dioxide, solid);
- x Class 9;
- x the number of packages; and
- x the net quantity of dry ice in each package.

The net weight of the Carbon dioxide, solid (dry ice) must be marked on the outside of the package.

Dry ice used as a refrigerant for other than dangerous goods may be shipped in the admitterice or other type of pallet prepared by a single shipper provided that the shipper has made prior arrangements with the operator. In such case, the unit device, or other type of pallet must allow the venting of the carbon dioxide gas to prevent angerous uildup of pressure. The shipper must provide the operator with written documentation stating the total quantity of the dry ice contained in the addit device or other type of pallet.

Notes

- 1. Refer to the relevant airline's loading procedures for Carbon dioxide, solid (dry ice) limitations.
- 2. For Air Waybill requirements see 8.2.3. For loading instructions see 9.3.12.
- 3. For cooling purposes, an overpack may contain Carbon dioxide, solid (diprime) ed that the overpack meets the requirements of Packing Instruction 904.

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