

December 22, 2006



U.S. Department  
of Transportation

400 Seventh Street, S.W.  
Washington, D.C. 20590

**Pipeline and  
Hazardous Materials  
Safety Administration**

DOT-SP 7887  
(EIGHTEENTH REVISION)

(FOR RENEWAL, SEE 49 CFR § 107.109.)

1. GRANTEE: (See individual authorization letter)
2. PURPOSE AND LIMITATION:
  - a. This special permit authorizes the transportation in commerce of certain Class 1 articles in limited quantities and prescribed packagings as Division 4.1 Flammable solid, organic, n.o.s. This special permit applies to small "single-use expendable" or "reloadable" rocket motors first classed as Division 1.4C or 1.4S (NA0323 or NA0276) shipped with or without their igniters classed as Division 1.4G or 1.4S under § 173.56. This special permit provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.
  - b. The safety analyses performed in development of this special permit only considered the hazards and risks associated with transportation in commerce.
  - c. Unless otherwise stated herein, this special permit consists of the special permit authorization letter issued to the grantee together with this document.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 172.101, 172.202, 172.301, 172.401, 174.3, 175.3, 176.3 and 177.801 in that the model rocket motors specified in this special permit which are classed as Division 1.4C or 1.4S and the igniters specified in this special permit which are classed as 1.4G or 1.4S may be shipped together as Division 4.1. articles; § 173.22a in that this special permit authorizes reshipment of these articles by persons other than the special permit grantees; § 173.61(a) in that the model

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rocket motor and igniters may be shipped in the same outside packaging as prescribed in this special permit.

5. BASIS: This special permit is based on Estes-Cox Corporation d/b/a Estes Industries application dated May 19, 2006 together with supplemental information furnished June 30 and August 6, 2006, submitted in accordance with § 107.105 and the public proceeding thereon and additional information dated October 11, 2006.
6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous materials description/proper shipping name	Hazard Class/ Division	Identification Number	Packing Group
Flammable solids, organic, n.o.s. (Model rocket kits containing motors with or without un-installed igniters)	4.1	UN1325	II

7. SAFETY CONTROL MEASURES:

a. Rocket motor cases must not be made of a material (e.g., metal) or of a configuration that would present a penetration hazard.

b. Model rocket motors or model rocket reloading kits must first be approved by the Office of Hazardous Materials Special Permits and Approvals (OHMSPA) as either NA0276 (Division 1.4C) or NA 0323 (Division 1.4S.) Igniters must first be examined and approved by OHMSPA as UN0325 (Division 1.4G or UN0454 (Division 1.4S.)

c. PACKAGING -

- (1) Single-use expendable type rocket motors may be packed in an outer packaging without the need for inner or intermediate packagings.

(2) Reloadable-type rocket motor kits:

(i) Each reloadable kit must be placed in a securely closed plastic bag at least 0.051mm (0.002 inches) thick as the inner packaging. Each inner packaging may not exceed 62.5 grams of propellant, 8.3 grams of delay charge and 1.4 grams of ejection charge.

(ii) When more than 12 inner packagings are contained in an outer, an intermediate fiberboard box is required. However, no more than 12 inner packagings may be placed in an intermediate packaging.

(3) Rocket motor igniters:

Rocket motor igniters must be segregated from the rocket motors in paper or static-resistant plastic bags, receptacles, sheets or in plastic trays fitted with dividing partitions. The ratio of igniters to rocket motors in each kit shall not exceed 3:2. Each igniter may not contain more than 0.008 grams total net weight of pyrotechnic materials.

(4) Outer Packagings:

UN 4C1 Boxes of natural wood;  
UN 4D Plywood boxes;  
UN 4F Boxes of reconstituted wood; or  
UN 4G Fiberboard boxes

The outer packagings must not exceed 11.3 kg. (25 pounds) gross weight if no model rocket motors contain more than 30 grams of propellant. The outer packagings shall not exceed 4.5 kg. (10 pounds) gross weight if any model rocket motors contain more than 30 grams, but none contain more than 62.5 grams of propellant.

8. SPECIAL PROVISIONS:

a. A person who receives a shipment of model rocket motor kits classed under this special permit but is not a grantee may reoffer the kits for transportation in conformance with this special permit provided no modifications or changes are made to the inner packagings and they are reoffered for transportation in conformance with this special permit and the HMR.

b. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.

c. The model rocket kits authorized under this special permit may be shipped in the same outer packaging with non-hazardous materials needed to construct model rockets.

d. The authorization to grant the relief provided within this special permit is limited to the extent that the United States government has authority over the transportation of the articles subject to this special permit. Transportation in accordance with this special permit outside the United States may require the approval of governments of countries where these articles are so transported.

e. Packages shipped under this special permit shall not be offered for transportation as Consumer Commodities, ORM-D.

f. Packagings permanently marked "DOT-E 7887", prior to October 1, 2007 may continue to be used under this special permit for the remaining service life of the packaging or until the special permit is no longer valid. Packagings marked on or after October 1, 2007 must be marked "DOT-SP 7887".

g. Shipping papers displaying "DOT-E 7887" may continue to be used until October 1, 2007, provided the special permit remains valid.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel and cargo aircraft only.

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10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each cargo vessel or cargo aircraft used to transport packages covered by this special permit. The shipper must furnish a current copy of this special permit to the air carrier before or at the time the shipment is tendered.
  
11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this special permit and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C 5101 et seq.:
  - o All terms and conditions prescribed in this special permit and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
  
  - o Persons operating under the terms of this special permit must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.
  
  - o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8 who performs a function subject to this special permit must receive training on the requirements and conditions of this special permit in addition to the training required by § 172.700 through § 172.704.

No person may use or apply this special permit, including display of its number, when the special permit has expired or is otherwise no longer in effect.

Under Title VII of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU)- 'The Hazardous Materials Safety and Security Reauthorization Act of 2005' (Pub. L. 109-59), 119 Stat. 1144 (August 10, 2005), amended the Federal hazardous materials transportation law by changing the term 'exemption' to 'special permit' and authorizes a special permit to be granted up to two years for new special permits and up to four years for renewals.

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12. REPORTING REQUIREMENTS: Shipments or operations conducted under this special permit are subject to the Hazardous Materials Incident Reporting requirements specified in 49 CFR §§ 171.15 - Immediate notice of certain hazardous materials incidents, and 171.16 - Detailed hazardous materials incident reports. In addition, the grantee(s) of this special permit must notify the Associate Administrator for Hazardous Materials Safety -- OHMSPA, in writing, of any incident involving explosion, fire or smoke produced from a package, shipment or operation conducted under terms of this special permit.

Issued in Washington, D.C.:



for Robert A. McGuire  
Associate Administrator  
for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Materials Safety Administration, Department of Transportation, Washington, D.C. 20590. Attention: PHH-31.

Copies of this special permit may be obtained by accessing the Hazardous Materials Safety Homepage at [http://hazmat.dot.gov/sp\\_app/special\\_permits/spec\\_perm\\_index.htm](http://hazmat.dot.gov/sp_app/special_permits/spec_perm_index.htm) Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PO: SCWatson:dl