

- o Registration required by 49 CFR 107.601 et seq., when applicable.

No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect unless a regulation has been amended making the exemption no longer necessary.

12. REPORTING REQUIREMENTS. The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AHMS) as soon as practicable. (49 CFR 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, persons using this exemption must inform the AHMS, in writing, of any incidents involving the package and shipments made under the terms of this exemption.

Issued at Washington, D.C.:

JUL 26 1994

Alan I. Roberts
Associate Administrator
for Hazardous Materials Safety

(DATE)

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

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

Dist: FHWA, FRA, FAA, USCG

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Estes

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US Department
of Transportation
Research and
Special Programs
Administration

DOT-E 7887
(FIFTH REVISION)

U.S. GOVERNMENT
PRINTING OFFICE: 1983

(FOR RENEWAL, SEE 49 CFR SECTION 107.105.)

EXPIRATION DATE: June 30, 1996

1. GRANTEE: Centuri Corporation d/b/a Estes Industries,
Pentose, CO.

2. PURPOSE AND LIMITATION: This exemption authorizes the transportation in commerce of certain explosive articles in prescribed packaging as flammable solids, Division 4.1. This exemption applies only to small rocket motors (toy propellant devices, propellant devices, articles pyrotechnic, or reloadable toy propellant device kits) containing not more than 62.5 grams of propellant per device or kit which have been classified as Division 1.3 or 1.4 explosives under 49 CFR 173.56. These articles may be of the reloadable type or the single use expendable type. This exemption provides no relief from any regulation other than as specifically stated. Each of the following is hereby granted the status of party to this exemption:

Flight Systems Incorporated, Raytown, MO - PTE-1
Kodel Rectifier Corporation, Edison, NJ - PTE-2
Quest Aerospace Education, Incorporated, Phoenix, AZ - PTE-3
Aero Tech Incorporated, Las Vegas, NV - PTE-4
Vulcan Systems, Inc., Colorado Springs, CO - PTE-5
North Coast Operations/North Coast Rocketry, Inc., Salt Lake City, UT - PTE-6
MRD Industries, Inc., Petersburg, NY - PTE-7

3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.

4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR Part 107 (Portion of Appendix B entitled Flight of Cargo-Only Aircraft), Sections 172.101 and 175.3.

5. BASIS. This exemption is based on Centuri Corporation d/b/a Estes Industries' application dated November 16, 1992, submitted in accordance with 49 CFR 107.105 and additional information dated January 25, 1993. The granting of party status is based on the following applications submitted in accordance with 49 CFR 107.111 and the public proceeding thereon and 107.105:

SA02658
PK3A83 ROCKET ENGINE

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Flight Systems, Incorporated's application dated July 15, 1994
Model Rectifier Corporation's application dated July 29, 1994
Quest Aerospace Education, Incorporated's application dated July 11, 1994
Aerotech, Incorporated's application dated May 11, 1994
Vulcan Systems, Inc.'s application dated July 29, 1994
North Coast Operations/North Coast Rocketry, Inc.'s, application dated July 8, 1994.
MRD Industries, Incorporated's application dated March 2, 1994.

6. HAZARDOUS MATERIALS (49 CFR 172.101):

Hazardous materials description/proper shipping name	Hazard Class/Division	Identification number	Packing Group
Flammable solids, n.o.s.	Division 4.1	UN 1225	II

7. PACKAGING AND SAFETY CONTROL MEASURES:

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

b. PACKAGING -

i. Single use expendable type devices:

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

ii. Reloadable type kit:

Each reload kit must be placed in a securely closed plastic bag at least 2 mils thick as the inner packaging. Each inner packaging may contain a maximum of 62.5 grams of propellant, 8.3 grams of delay charge and 1.4 grams of ejection charge. Not more than 12 inner packagings must be placed in a fiberboard box intermediate packaging which must be packed in a UN 4G fiberboard box. Intermediate packaging is not required for a package containing 12 or less inner packagings.

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iii. The above packages may not exceed 25 pounds (11kg) gross weight when the individual devices contain not more than 30 grams of propellant each and may not exceed 10 pounds (4.5kg) gross weight when the individual devices contain more than 30 grams, but not more than 62.5 grams of propellant each.

Until October 1, 1996, the following DOT specification packages may be used: 15A, 15B, 16A, 19A wooden boxes; 12B fiberboard boxes.

8. SPECIAL PROVISIONS.

a. Persons who receive the hazardous materials covered by this exemption may reoffer them for transportation provided all terms of this exemption are complied with and a current copy of this exemption is maintained at each facility from which such reoffering occurs.

b. The devices and kits authorized under this exemption may be shipped in the same packaging with igniters for the devices, and with nonhazardous materials needed to construct toy rockets.

c. Operations under this exemption are limited to the United States of America.

d. Packages shipped under this exemption may not be offered for transportation as Consumer Commodities, ORM-D.

MODES OF TRANSPORTATION AUTHORIZED. Motor vehicle, rail freight, cargo vessel, passenger carrying aircraft and cargo aircraft only.

10. MODAL REQUIREMENTS: A copy of this exemption must be carried aboard each cargo vessel or aircraft used to transport packages covered by this exemption. In accordance with the provisions of 49 CFR Part 107, Appendix B to Subpart B, paragraph 3, the shipper shall furnish a copy of this exemption 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 exemption and penalties prescribed by the Federal hazardous materials transportation laws:

o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.