

May 22, 2015



U.S. Department  
of Transportation

East Building, PHH-30  
1200 New Jersey Avenue S.E.  
Washington, D.C. 20590

**Pipeline and Hazardous  
Materials Safety Administration**

DOT-SP 15837  
(FIRST REVISION)

**EXPIRATION DATE: March 31, 2019**

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Department of Defense  
Scotts AFB, IL
2. PURPOSE AND LIMITATION:
  - a. This special permit authorizes the transportation in commerce of a Submarine High Data Rate (HDR)/ Advanced Communications Mast (ACM) configured with a non-DOT specification pressure vessel containing anhydrous ammonia. This special permit provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein. The most recent revision supersedes all previous revisions.
  - b. The safety analyses performed in the development of this special permit only considered the hazards and risks associated with the transportation in commerce.
  - c. No party status will be granted to this special permit.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 171.22(e) and § 173.304a in that transportation by air is not authorized and DOT specification packaging is required, except as provided herein.
5. BASIS: This special permit is based on the application of Department of Defense dated April 29, 2015, submitted in accordance with § 107.109.

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6. HAZARDOUS MATERIALS (49 CFR § 172.101):

<b>Hazardous Materials Description</b>			
<b>Proper Shipping Name</b>	<b>Hazard Class/ Division</b>	<b>Identification Number</b>	<b>Packing Group</b>
Ammonia, anhydrous	2.2/2.3*	UN1005	N/A, Hazard Zone D

\* Division 2.3 for international transportation. Division 2.2 as an alternative when only domestic transportation is involved.

7. SAFETY CONTROL MEASURES:a. PACKAGING:

The HDR/ACM mast is configured with an integral cooling system consisting of metallic heat pipes containing reagent grade anhydrous ammonia as the working fluid. The cooling system contains a total quantity of 136.4 grams of anhydrous ammonia at a working pressure of 667 psia. The mast is packaged for shipment using either a wooden box conforming to Drawing 995653 or a reusable plastic/aluminum shipping container conforming to drawing H279020, on file with the Office of Special Permits and Approvals.

For both ACM and HDR, anhydrous ammonia is encased in Swales Thermal Systems heat pipes. The heat pipes are mounted inside a two-piece cold plate assembly which in turn is mounted inside titanium housing. There are two different heat pipes in the cold plate assembly but the physical construction of the two systems is identical. The amount of anhydrous ammonia in each assembly is 136.4 grams. The ACM and HDR design must conform to drawings H328877 and G745289, on file with the Office of Special Permits and Approvals.

b. OPERATIONAL CONTROLS -

- (1) The item(s) authorized under this special permit are authorized for transportation only when transported by, or under the direction or supervision of DOD.

(2) This special permit in no way affects the need to obtain any required authorization from other agencies of the United States Government or competent authorities of the countries of transit, over-flight or destination.

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this special permit who receives a package covered by this special permit may reoffer it for transportation provided no modification or change is made to the package and it is 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.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor Vehicle, Cargo Aircraft, Cargo Vessel, Rail Freight.

10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each cargo vessel, aircraft, or motor vehicle used to transport packages covered by this special permit. The shipper must furnish a 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 this 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.

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, in writing, of any incident involving a package, shipment or operation conducted under terms of this special permit.

Issued in Washington, D.C.:



for Dr. Magdy El-Sibaie  
Associate Administrator for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Material Safety Administration, U.S. Department of Transportation, East Building PHH-30, 1200 New Jersey Avenue, Southeast, Washington, D.C. 20590.

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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: LAVALLE/RS