



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**

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

DOT-E 13190

SEP 24 2003

EXPIRATION DATE: August 31, 2005

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Air Products and Chemicals  
Allentown, Pennsylvania
2. PURPOSE AND LIMITATION:
  - a. This exemption authorizes, at the Air Products and Chemicals facility in Tamaqua, PA, the use of video cameras and monitors to observe the loading operations of anhydrous ammonia from a remote control station in place of personnel remaining within 7.62 meters (25 feet) of the cargo tank motor vehicles. This exemption provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.
  - b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 177.834(i)(3) in that the loading of a cargo tank without the attendance of a qualified person within 25 feet of the cargo tank is not authorized, except as specified herein.
5. BASIS: This exemption is based on the application of Air Products and Chemicals, dated December 9, 2002, submitted in accordance with § 107.109.
6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous Materials Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Ammonia, anhydrous	2.2	UN1005	NA

7. SAFETY CONTROL MEASURES:

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a. PACKAGING - The anhydrous ammonia must be transported in authorized DOT specification cargo tank motor vehicles.

b. OPERATIONAL CONTROLS -

(1) Each cargo tank must be loaded by qualified persons, who are familiar with the product and with the proper procedures for its safe handling.

(2) The provisions of § 177.834 (i) must be complied with except that paragraph (3) is replaced with the following:

"A designated Production Operator must observe all loading operations by means of a video monitor located in the remote control station. The loading system must be equipped with the following:

(i) The video camera must have a motorized zoom lens, and must be capable of panning and zooming from the remote control station. The camera must be mounted so as to provide an unobstructed view of all equipment involved in loading operations of the cargo tank. This must include all valves, hoses, domes, and safety relief devices. In addition, the view capability must include the entire containment area.

(ii) Upon loss of video, loading operations must be immediately terminated. Shut-off valves operable from the remote control station must be provided.

(iii) In the event of a remote system failure, the Production Operator must immediately resume attending loading operations from within 7.62 meters (25-feet) of the cargo tank.

(iv) A containment area must be provided capable of holding the contents of as many cargo tank motor vehicles as might be loaded at the facility at any single time."

8. SPECIAL PROVISIONS:

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- a. A current copy of this exemption must be conspicuously displayed at the remote control station at the Tamaqua, PA facility.
  - b. The Production Operator must visually inspect each cargo tank motor vehicle after it is loaded, prior to departure.
  - c. Written procedures for training of the Production Operators, for their adherence to standard operating procedures, and for inspection and maintenance of video equipment and of the shut-off valve/remote control system must be on file with the Office of Hazardous Materials Exemptions and Approvals prior to operating under the terms of this exemption. Air Products and Chemicals must continuously maintain a current list of qualified Production Operators. A copy of this list must be available for inspection during normal working hours.
  - d. This exemption applies only to loading operations at the Air Products and Chemicals facility at 357 Marian Ave., Tamaqua, PA.
9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle.
10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each motor vehicle used to transport packages covered by this exemption.
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 law, 49 U.S.C. 5101 et seq:
- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
  - 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 exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

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

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 (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incident involving the package and shipments made under the terms of this exemption.

Issued in Washington, D.C.:

  
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*for* Robert A. McGuire  
Associate Administrator for  
Hazardous Materials Safety

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(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.

Copies of this exemption may be obtained by accessing the Hazardous Materials Safety Homepage at <http://hazmat.dot.gov/exemptions> Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

PO: PTolson