1. **GRANTEE**: Air Products and Chemicals, Inc.  
   Allentown, PA

2. **PURPOSE AND LIMITATION:**
   a. This special permit authorizes the transportation in commerce of a gas purification apparatus containing UN2881, metal catalyst, dry in non-DOT specification stainless steel pressure vessels. 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.


4. **REGULATIONS FROM WHICH EXEMPTED**: 49 CFR § 173.187 in that non-DOT specification pressure vessels are authorized.

5. **BASIS**: This special permit is based on the application of Air Products and Chemicals, Inc. dated December 16, 2022, submitted in accordance with § 107.109.
6. **HAZARDOUS MATERIALS (49 CFR 172.101):**

<table>
<thead>
<tr>
<th>Hazardous Materials Description</th>
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<tr>
<td><strong>Proper Shipping Name</strong></td>
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<tr>
<td>Metal catalyst, dry</td>
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7. **PACKAGING:** The Division 4.2 metal catalyst is contained in non-DOT specification stainless steel pressure vessels under a nitrogen or argon blanket at a filling pressure not exceeding 25 psig. The pressure vessels and associated components must be arranged and securely affixed to a skid as shown in the Air Products and Chemicals Drawings PBH801 MECH0001, PBH802 MECH6202, PBH803 MECH6202, PBH804 MECH6202, PBH805 MECH6202, PBH805 MECH6202, and PBH805 MECH6203, on file with the Office of Hazardous Materials Safety. The total amount of metal catalyst contained within a single gas purification apparatus shipment may not exceed 8,000 pounds and the nickel content must not exceed 5,200 pounds. The pressure vessels must be designed, constructed, and tested in accordance with Section VIII, Division I of the ASME Boiler and Pressure Vessel Code. The maximum allowable working pressure of each pressure vessel may not be less than 250 psig at 250 ºC.

a. Pressure vessels **not for export** must be “U” stamped.

b. Pressure vessels **for export only** to a country not recognizing the ASME Code “U” symbol stamp, may alternatively be stamped as required by the governing design code of the accepting country.

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, rail freight, and cargo vessel.
10. **MODAL REQUIREMENTS**: A current copy of this special permit must be carried aboard each cargo vessel or motor vehicle used to transport packages covered by this special permit.

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:

   - All terms and conditions prescribed in this special permit and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
   - 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.
   - 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.:

[Signature]

for William Schoonover
Associate Administrator for Hazardous Materials Safety


Copies of this special permit may be obtained by accessing the Hazardous Materials Safety Homepage at https://www.phmsa.dot.gov/approvals-and-permits/hazmat/special-permits-search. Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PO: BMOORE/NICKS