1. **GRANTEE:** (See individual authorization letter)

2. **PURPOSE AND LIMITATION:**
   
   a. This special permit authorizes the transportation in commerce of certain Division 2.2 liquefied compressed gases in DOT Specification cylinders that are not equipped with an individual shutoff valve. This special permit provides no relief from any Hazardous Materials Regulation (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. The safety analyses did not consider the hazards and risks associated with other uses not 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 § 173.301(g)(1)(ii) in that manifolde DOT specification cylinders need not be filled separately and isolated during transportation with individual shut off valves.

5. **BASIS:** This special permit is based on the application of Air Liquide Electronics U.S. LP dated May 5, 2023, submitted in accordance with § 107.105 and the public preceding thereon.
6. **HAZARDOUS MATERIALS (49 CFR 172.101):**

<table>
<thead>
<tr>
<th>Hazardous Materials Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name</td>
</tr>
<tr>
<td>Nitrous oxide</td>
</tr>
<tr>
<td>Carbon dioxide</td>
</tr>
<tr>
<td>Sulfur hexafluoride</td>
</tr>
<tr>
<td>Trifluoromethane</td>
</tr>
</tbody>
</table>

Note: Hazardous materials are only authorized in cylinder (tube) specifications authorized in the HMR for that hazardous material.

7. **SAFETY CONTROL MEASURES:**

   a. **PACKAGING:** Packagings prescribed are manifolded DOT Specification 3A, 3AA, 3AL, 3AX, 3AAX, and 3T cylinders (tubes) that are not separately filled and isolated during transportation.

   b. **OPERATIONAL CONTROLS** -

      (1) Each cylinder in the manifold is equipped with a pressure relief device in accordance with § 173.301.

      (2) A weight scale must be used to fill manifolded cylinders. The scale must be calibrated quarterly to an accuracy of 1% and have its accuracy verified and recorded.

      (3) After each filling, the total weight of each manifolded pack of cylinders must be verified and recorded. The fill and scale calibration records must be maintained for up to one year from the date of filling and be made available to a DOT representative upon request.

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 modifications or changes are made to the package and it is reoffered for transportation in conformance with this special permit and the HMR.

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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:

   o All terms and conditions prescribed in this special permit and the Hazardous

   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
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: MMtoughiryCHENG