1. **GRANTEE:** Sandia National Laboratories
   Albuquerque, NM

2. **PURPOSE AND LIMITATION:**
   a. This special permit authorizes the one-time, one-way transportation in commerce of 70 pounds of solid lithium in a non-DOT specification pressure vessel by motor vehicle. 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 § 173.24a and 173.211 in that a DOT-specification non-bulk packaging is authorized, except as provided herein.

5. **BASIS:** This special permit is based on the application of Sandia National Laboratories dated June 9, 2014 submitted in accordance with § 107.105 and the public proceeding thereon.
6. HAZARDOUS MATERIALS (49 CFR § 172.101):

<table>
<thead>
<tr>
<th>Hazardous Materials Description</th>
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<tbody>
<tr>
<td><strong>Proper Shipping Name</strong></td>
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<tr>
<td>Lithium</td>
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7. SAFETY CONTROL MEASURES:

a. PACKAGING -

(1) The package is an ASME Code stainless steel pressure vessel containing 70 lbs of lithium. The vessel has a height of 60 inches, a diameter of 36 inches, and a thickness of .500 inch. The pressure vessel must have 10 psig of argon gas in contact with the lithium to prevent introduction of moisture or air into the pressure vessel.

(2) The pressure vessel must be wrapped with moisture protective material and enclosed by a non-DOT specification outer plywood crate fabricated with a load bearing platform for securement of the pressure vessel.

b. OPERATIONAL CONTROLS -

(1) Transportation of the ASME stainless steel pressure vessel is authorized for one-way, one-time movement from Sandia National Laboratory Albuquerque, NM to the Applied Research Laboratory State College, PA. There shall be no intermediate stops for loading or unloading additional materials.

(2) The pressure vessel must be exclusively transported in an enclosed motor vehicle.

(3) All openings on the pressure vessel must be sealed and closed to prevent moisture from entering the pressure vessel.

(4) The pressure vessel must be properly secured prior to being offered for transportation.
(5) The transportation of the tank must comply with all marking/placarding requirements found in §§ 172.300 and 172.500.

(6) The vehicle operator must have in their possession a copy of the special permit, shipping papers, and emergency response instructions.

8. **SPECIAL PROVISIONS:**

   a. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.

   b. The outer plywood crate must be plainly and durably marked “DOT-SP 16187”.

9. **MODES OF TRANSPORTATION AUTHORIZED:** Motor Vehicle.

10. **MODAL REQUIREMENTS:** A current copy of this special permit must be carried aboard each 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 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.:

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


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. Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PO: LMajors