1. GRANTEE: (See individual authorization letter)

2. PURPOSE AND LIMITATION:
   a. This special permit authorizes the controlled release of nitrogen and air from cylinders during transportation to maintain an inert atmosphere in a shipping container which is required to protect the electronic sensors for a satellite. 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 development of this special permit only considered the hazards and risks 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.


4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.24(b)(1) in that small amounts of gas may be released into the environment, and § 177.834(h) in that controlled discharge of gas from the cylinders is authorized during transportation.

5. BASIS: This special permit is based on the application of Northrop Grumman Corporation dated February 24, 2012, submitted in accordance with § 107.109 and additional information on April 12, 2016.
6. **HAZARDOUS MATERIALS (49 CFR § 172.101):**

<table>
<thead>
<tr>
<th>Proper Shipping Name</th>
<th>Hazard Class/Division</th>
<th>Identification Number</th>
<th>Packing Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air, compressed</td>
<td>2.2</td>
<td>UN1002</td>
<td>N/A</td>
</tr>
<tr>
<td>Nitrogen, compressed</td>
<td>2.2</td>
<td>UN1066</td>
<td>N/A</td>
</tr>
</tbody>
</table>

7. **SAFETY CONTROL MEASURES:**

   a. **PACKAGING** – Packaging’s prescribed are DOT Specification 3AA cylinders (49 CFR 178.35 and 178.37) and cylinders authorized in accordance with special permit DOT-SP 9909. The cylinders must be manifolded, securely mounted to the frame of a shipping container, and protected from impact in accordance with the Northrop Grumman drawings and application for special permit on file with the Office of Hazardous Materials Special Permits and Approvals. In addition, in accordance with the application for special permit, the contents of the cylinders must be discharged into the shipping container in a controlled manner in order to maintain a contaminant-free and corrosion-resistant atmosphere for the electronic space (satellite) sensors within.

   b. **OPERATIONAL CONTROLS** – The shipping container must be equipped with pressure relief devices (PRDs) that meet SAE Specification AS27166. These PRDs must automatically relieve pressure if the internal pressure within the shipping container exceeds 0.25 psig.

   c. **TESTING** – Each cylinder must be requalified as specified in 49 CFR 180.209 for DOT Specification 3AA cylinders or in accordance with the requirements of DOT-SP 9909, as applicable.

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.

c. The outside of each shipping container must be plainly 
and durably marked on two opposite sides “DOT-SP 14971”. 
This special permit number is not required to be marked on 
each cylinder.


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 notices 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: ae