March 16, 2023

U.S. Department of Transportation
Pipeline and Hazardous Materials Safety Administration

DOT-SP 21520

EXPIRATION DATE: 2023-07-31

(FOR RENEWAL, SEE 49 CFR 107.109)

1. GRANTEE: Reuter-Stokes, LLC
   a Division of Baker Hughes
   Twinsburg, OH

2. PURPOSE AND LIMITATIONS:
   a. This emergency special permit authorizes the transportation in commerce of a Division 2.2 material in neutron detectors that are not designed to meet the minimum burst pressure requirement. 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 § 173.310(b) in that the detectors are not designed to meet the minimum burst pressure requirement.

5. BASIS: This emergency special permit is based on the application of Reuter-Stokes, LLC dated February 8, 2023, submitted in accordance with § 107.117 and the determination it was necessary to prevent significant economic loss.

Tracking Number: 2023024451
6. HAZARDOUS MATERIALS (49 CFR 172.101):

<table>
<thead>
<tr>
<th>Hazardous Material Description</th>
<th>Hazard Class/Division</th>
<th>Identification Number</th>
<th>Packing Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressed gas, n.o.s</td>
<td>2.2</td>
<td>UN1956</td>
<td>N/A</td>
</tr>
</tbody>
</table>

7. SAFETY CONTROL MEASURES:

a. **PACKAGING:** The prescribed packaging consists of hermetically sealed neutron detectors that are in conformance with § 173.310 except that the detectors are not designed to meet the minimum burst pressure requirement of § 173.310(b). Detectors were designed and manufactured in accordance with Reuter-Stokes drawing RS-P4-0832-104. Each detector is bubble wrapped and packaged in square cardboard tubes measuring 37” x 3” x 3” each of which contains 4 bubble wrapped detectors. A total of 90 detectors are packaged in 23 such square cardboard tubes. These cardboard tubes are then overpacked in a 110-gallon open head steel drum made by Skolnik Industries, Part # HM1 1001LR234, and complying with UN Specification 1A2/Y409/S/14/USA/SDCC. The boxed detector tubes are cushioned by polystyrene foam inside the steel drum. The packagings and containment drum must be as described in the information on file with the Office of Hazardous Materials Safety.

b. **OPERATIONAL CONTROLS:**

   (1) Reuter-Stokes, LLC must act as the offeror (shipper). The detectors will be delivered via truck by highway to the Department of Energy in Oak Ridge, Tennessee in two shipments.

   (2) Emergency response information provided with the shipment and available via an emergency response telephone number must indicate that the detectors are not fitted with pressure relief device and provide appropriate guidance for exposure to fire.

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. **MARKING:** The outside of each package must be plainly and durably marked “DOT-SP 21520”.

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:  
   - 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: RS/TG