

accessed and by whom. During the testing phase, consider what data should be made public for further analysis and understanding.

6. *Crash avoidance capability:* Consider the capabilities of AV systems with respect to detecting roadway hazards (other vehicles, pedestrians, animals, etc.) such that common crash scenarios involving these hazards (control loss, crossing paths head-on, etc.) can be detected and either avoided or mitigated.

7. *Electronics systems safety:* Consider methods and potential documentation that could be produced with respect to functional safety and cybersecurity.

8. *Non-passenger AVs:* Consider differences between AVs designed for delivery of goods and products that are not intended to have a human operator or potentially even human passengers.

9. *Aspects of AV technology that may not be suitable or ready for guidelines.* For these areas, information would be useful on alternative approaches to assure safety.

10. *Identification of industry voluntary standards, best practices, etc., related to automated vehicle operation.*

11. *Information AV's may need to communicate to pedestrians and other vehicles (manual or automated) just as a driver would.* Consider situations such as pedestrians crossing a travel lane in a parking lot and how this

communication should be accomplished.

12. *Other topics needed for operational guidance:* Other topics that would be beneficial to address in an operational guidance document to facilitate innovation and safe deployment of these systems on public roadways.

Issued in Washington, DC, under authority delegated by 49 CFR 1.95.

Nathaniel Beuse,
Associate Administrator for Vehicle Safety Research.

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DEPARTMENT OF TRANSPORTATION

Pipeline and Hazardous Materials Safety Administration

Hazardous Materials: Delayed Applications

AGENCY: Office of Hazardous Materials Safety, Pipeline and Hazardous Materials Safety Administration (PHMSA), DOT.

ACTION: List of application delayed more than 180 days.

SUMMARY: In accordance with the requirements of 49 U.S.C. 5117(c), PHMSA is publishing the following list of special permit applications that have

been in process for 180 days or more. The reason(s) for delay and the expected completion date for action on each application is provided in association with each identified application.

FOR FURTHER INFORMATION CONTACT:
Ryan Paquet, Director, Office of Hazardous Materials Special Permits and Approvals, Pipeline and Hazardous Materials Safety Administration, U.S. Department of Transportation, East Building, PHH-30, 1200 New Jersey Avenue SE., Washington, DC 20590-0001, (202) 366-4535.

Key to "Reason for Delay"

1. Awaiting additional information from applicant
2. Extensive public comment under review
3. Application is technically complex and is of significant impact or precedent-setting and requires extensive analysis
4. Staff review delayed by other priority issues or volume of special permit applications

Meaning of Application Number Suffixes

- N—New application
- M—Modification request
- R—Renewal Request
- P—Party To Exemption Request

Issued in Washington, DC, on March 10, 2016.

Donald Burger,
Chief, General Approvals and Permits.

Application No.	Applicant	Reason for delay	Estimated date of completion
Modification to Special Permits			
16412-M	Nantong CMC Tank Equipment Co. Ltd., Jiangsu, Province	4	03-31-2016
15628-M	Chemours Company FC, LLC, Wilmington, DE	4	03-31-2016
15610-M	TechKnowServ Corp., State College, PA	4	03-31-2016
15537-M	Alaska Pacific Powder Company, Watkins, CO	4	04-15-2016
7607-M	Thermo Fisher Scientific, Franklin, MA	4	03-31-2016
16035-M	LCF Systems, Inc., Scottsdale, AZ	4	04-30-2016
14437-M	Columbiana Boiler Company (CBCo), LLC, Columbiana, OH	4	02-15-2016
New Special Permit Applications			
15767-N	Union Pacific Railroad Company, Omaha, NE	3	02-29-2016
16001-N	VELTEK ASSOCIATES, INC., Malvern, PA	3	03-31-2016
16477-N	Hydroid, Inc., Pocasset, MA	4	03-15-2016
16495-N	TransRail Innovation, Inc., Calgary	4	03-31-2016
16524-N	Quantum Fuel Systems Technologies Worldwide, Inc., Lake Forest, CA	4	03-15-2016
16463-N	Salco Products, Lemont, IL	3	03-31-2016
16571-N	Chevron USA Inc., San Ramon, CA	4	04-15-2016
16559-N	HTEC Hydrogen Technology & Energy Corporation, North Vancouver, BC; Canada	4	04-30-2016
16560-N	LightSail Energy, Inc., Berkeley, CA	4	04-30-2016
Party to Special Permits Application			
16279-P	AEG Environmental Products & Services, Inc.; Westminster, MD	4	03-31-2016