

2019 NTSB

National Transportation Safety Board
2019 ANNUAL REPORT TO CONGRESS

Appendices



Abbreviations, Acronyms, and Initialisms used in Appendices

ADAS	advanced driver assistance systems
ADFR	automatic deployable flight recorder
AIP	Accident Investigators-Performance
ARINC	Aeronautical Radio Inc.
AS	NTSB Office of Aviation Safety
ATC	air traffic control
bbl	oilfield barrel (42 US gallons)
DOT	Department of Transportation
FAA	Federal Aviation Administration
FSDO	Flight Standard District Offices
ICAO	International Civil Aviation Organization
IMO	International Maritime Organization
INTERPOL	International Criminal Police Organization
NASA	National Aeronautics and Space Administration
NTSB	National Transportation Safety Board
PVA	Passenger Vessel Association
SEPTA	Southeastern Pennsylvania Transportation Authority
SIR	special investigation report
SPV	small passenger vessel
SRC	NTSB Office of Safety Recommendations and Communications
STEM sup.	science, technology, engineering and math supplement
UMA	United Motorcoach Association
U.S.C.	<i>United States Code</i>

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Appendix A. Journal Publications

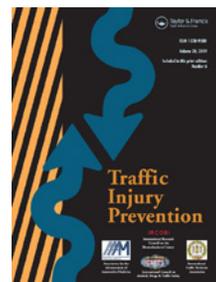
OFFICE OF AVIATION SAFETY

- J.D. Walls, W.J. Bramble, and M.S. Weiss. "Safety in the nonoperating room anesthesia suite is not an accident: Lessons from the National Transportation Safety Board." *Current Opinion in Anesthesiology*, 32, 4 (2019): 504–510.



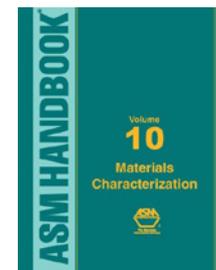
OFFICE OF HIGHWAY SAFETY

- M.P. McKay, K. Poland, D. Karol, R. Marshall, R. Kaminski. "Impaired driving: A case report. Pickup truck centerline crossover collision with medium-size bus on U.S. Highway 83, Concan, Texas." *United States Traffic Injury and Prevention*, 20 (2019): sup. 2.



OFFICE OF RESEARCH & ENGINEERING

- T. Bruno, E. Mueller, editors, et al. *ASM Handbook, Volume 10: Materials Characterization*. ASM International, (2019).
- A. Strifas, M.K. Budinski, E. Komarnicki, et al. "The Efficacy of a Chelating Agent-Based Oxide Remover to Clean Corrosion Products from Ferrous Fracture Surfaces." *Journal of Failure Analysis and Prevention*, 19 (2019): 1860–1865.



Appendix B. Advocacy and Outreach

OFFICE OF AVIATION SAFETY

Testimony Before Congress

- D. Schulze, *State of Aviation Safety*. House Committee on Transportation and Infrastructure, Subcommittee on Aviation, Washington, DC, July 17, 2019.

Presentations and Briefings

- A. Scott, *Balloon Accidents*. Presentation at the Wyoming Lighter than Air Safety Stand-down, Cheyenne, Wyoming, February 1, 2019.
- S. Silva, *Taxiway Overflight Air Canada Flight 759*. Presentation at MITRE, McLean, Virginia, February 2, 2019.
- E. Gibson, *San Francisco briefing*. Presentation at Airlines for America (A4A) Cabin Operation Committee Quarterly Meeting, Washington, DC, February 5–6, 2019.
- J. Sedor, *NTSB Investigations*. Presentation at the National Aeronautics and Space Administration (NASA) Commercial Crew Program, Cocoa Beach, Florida, February 13–15, 2019.
- T. LeBaron, *NTSB Party Process*. Presentation at Gulfstream, Savannah, Georgia, February 20–12, 2019.
- C. Hatch, *NTSB MX-Related Accidents*. Presentation at the Inspection Authorization Seminar, Lancaster, Texas, March 2019.
- D. Schulze, *Preventing Preventable Accidents Through Shared Knowledge*. Keynote speaker presentation at Energy Storage Systems Safety Forum, Albuquerque, New Mexico, March 5–7, 2019.
- J. Cawthra, *NTSB Maintenance Related Accidents*. Presentation at the Inspection Authorization Seminar, Sacramento, California, March 9, 2019.
- D. Bowling, *Situational Awareness in Ballooning*. Presentation at the Quad A Balloon Safety Standdown, Albuquerque, New Mexico, March 9, 2019.
- L. Ward, *Overview of NTSB Accident Investigations*. Presentation at the Space Safety Council, Albuquerque, New Mexico, March 11–15, 2019.
- T. LeBaron, *From Chaos to PC: Boeing 747 Cargo Crash, Bagram, Afghanistan*. Presentation for engineering students, Cincinnati, Ohio, March 12–13, 2019.
- W.J. Bramble, *Case review: Trans-Pacific Air Charter, Learjet 35A, N452DA, Teterboro, New Jersey, May 15, 2017*. Presentation at

- the Air Charter Safety Foundation Safety Symposium, Ashburn, Virginia, March 12–13, 2019.
- D. Lawrence, *Case study: Crash During Nonprecision approach Execufight Hawker 700A, Akron, Ohio, November 10, 2015*. Presentation at Air Charter Safety Foundation Symposium, Ashburn, Virginia, March 12–13, 2019.
- L. Read, *NTSB Overview and Case Studies*. Presentation at the Federal Aviation Administration (FAA) Aircraft Mechanics Seminar, Enfield, Connecticut, March 14, 2019.
- D. Schulze, *Data Analytics*. Presentation at the Data Analytics and Diagnostics Center, Centre for Energy Advancement through Technological Innovation International, Tucson, Arizona, March 18–19, 2019.
- D. Brazy, *NTSB Overview and Case Studies*. Presentation at the FAA Inspection Authorization Seminar, Rochester, New York, March 20, 2019.
- A. Swick, *NTSB, Most Wanted List and Helicopter Case Study*. Presentation at the FAA Safety Seminar, Helicopter Association, Mesa, Arizona, April 4, 2019.
- B. Soper, *Investigations...Party Responsibilities*. Presentation at the National Air Traffic Controllers Association Annual Training meeting, Charlotte, North Carolina, April 9, 2019.
- F. Hilldrup, *Challenges and Lessons Learned in Accident Investigation*. Presentation at the Singapore Triennial Accident Investigation Forum, Singapore, April 10, 2019.
- D. Lawrence, *NTSB Case Studies: Part 135 Flight Data Monitoring and Safety Management Systems Recommendations*. Presentation at the InfoShare meeting, Dallas, Texas, April 15, 2019.
- K. Dunks, *Aviation Accident at Airports*. Presentation at the Bozeman International Airport, Airport Operations and Emergency Response Personnel, Bozeman, Montana, April 18, 2019.
- B. Banning, *Pre-Season Safety*. Presentation at the Alaska Aviation Safety Float Flying Seminar, Anchorage, Alaska, April 19, 2019.
- F. Hilldrup, *Timely, Public Release of Investigative Information*. Presentation at the 2019 International Civil Aviation Organization (ICAO) Accident Investigation Panel meeting, Montreal, Canada, April 28–May 2, 2019.

- A. Olvis, *Air Traffic Control (ATC) Investigations Briefing–2019*. Presentation at the FAA-ATC Supervisor's Committee and Quality Assurance/Quality Control Group, Norman, Oklahoma, April 30–May 1, 2019.
- J. Brannen, *NTSB Accident Investigation*. Presentation at the Jasper County Airport Career Days, Rensselaer, Indiana, May 1, 2019.
- E. Gibson, *Briefing on Taxi Overflight Air Canada Flight 759*. Presentation at the A4A Cabin Operations Committee quarterly meeting, Washington, DC, May 7–8, 2019.
- S. Silva, *Taxi Overflight Air Canada Flight 759*. Presentation at the International Society of Aviation Psychologists Conference, Dayton, Ohio, May 8, 2019.
- C. Hatch, *NTSB and Accident Case Studies*. Presentation at the Transportation Safety Institute Basic Accident Investigation Course, Oklahoma City, Oklahoma, May 20, 2019.
- M. Hodges, J. Rodi, and C. Liedler, *Airport Operations and Safety Management*. Presentation at the Denver International Airport, Denver, Colorado, May 20, 2019.
- F. Hilldrup, *NTSB and Legal Issues*. Presentation to the European Civil Aviation Conference, Derby, United Kingdom, May 21, 2019.
- F. Hilldrup, *U.S. Perspectives on Investigation Collaboration*. Presentation to the European Society of Air Safety Investigators Workshop, Derby, United Kingdom, May 23, 2019.
- A. Sauer, *NTSB Overview and Case Studies*. Presentation at the Transportation Safety Institute Experimental Aircraft course, Oshkosh, Wisconsin, June 5, 2019.
- P. Suffern, *Geostationary Operational Environmental Satellite (GOES-16) Data and Icing Accident Investigation*. Presentation at the Aviation Weather Workshop, Tempe, Arizona, June 6–7, 2019.
- J. Lindberg and C. Hatch, *About the NTSB*. Presentation at the Drug Enforcement Agency Aviation Division meeting, Fort Worth, Texas, June 12, 2019.
- J. Sedor, *NTSB Investigative Update*. Presentation at the A4A Conference, Washington, DC, June 20, 2019.
- S. Silva, *Human Factors Investigations*. Presentation at the Helicopter Accident Investigation course, Ashburn, Virginia, June 24–28, 2019.

APPENDIX B: Advocacy and Outreach (continued)

- P. Suffern, *Meteorology Investigations*. Presentation at the Helicopter Accident Investigation course, Ashburn, Virginia, June 24–28, 2019.
- F. Salazar, *General Aviation Investigations*. Presentation at the Helicopter Accident Investigation course, Ashburn, Virginia, June 24–28, 2019.
- A. Sauer, *Alaska State Troopers Accident Study*. Presentation at the Helicopter Accident Investigation course, Ashburn, Virginia, June 24–28, 2019.
- S. Link, *NTSB Activities on and Airport Site*. Presentation at the Duluth Airport Emergency Exercise, Duluth, Minnesota, June 26, 2019.
- K. Wilson, *Human Factors*. Presentation and course leader at the Investigating Human Factors course, Ashburn, Virginia, July 9–10, 2019.
- S. Silva, *Human Factors*. Presentation and expert panelist at the Investigating Human Factors course, Ashburn, Virginia, July 9–10, 2019.
- E. Byrne, *Human Factors*. Presentation and expert panelist at the Investigating Human Factors course, Ashburn, Virginia, July 9–10, 2019.
- A. Sauer, *NTSB Overview and Case Studies*. Presentation at the Transportation Safety Institute Experimental Aircraft course, Oshkosh, Wisconsin, July 10, 2019.
- D. Eick, *NTSB Operational Lessons Learned-Turbulence*. Presentation at the Air Line Pilots Association (ALPA) Air Safety Forum, Washington, DC, July 15–18, 2019.
- D. Lawrence, *ALPA and NTSB: Update/Operation Group Discussion*. Presentation at the Air Line Pilot's Association's Air Safety Forum, Washington, DC, July 15–18, 2019.
- B. English, *Drone Collisions Myths and Reality: Case studies of reported drone-aircraft midair collisions*, EAA AirVenture, Oshkosh, Wisconsin, July 22, 2019.
- S. Silva, *Departure from Controlled Flight: Trans-Pacific Air Charter Learjet 35A*. Presentation at the Experimental Aviation Association AirVenture, Oshkosh, Wisconsin, July 22, 2019.
- A. Scott, *NTSB and Accident Case Studies*. Presentation at the Transportation Safety Institute Accident Investigation course, Oklahoma City, Oklahoma, July 24, 2019.
- S. Silva, *NTSB Investigation of Weather-Related Aviation Incidents and Accidents*. Presentation at the Human-Computer Interaction International Conference, Orlando, Florida, July 28–29, 2019.
- B. Soper, *ATC Investigations*. Presentation at the Army National Guard Accident Investigation course, Ashburn, Virginia, August 5–8, 2019.
- D. Eick, *Meteorology Investigations*. Presentation at the Army National Guard Accident Investigation course, Ashburn, Virginia, August 5–8, 2019.
- D. Lawrence, *Operations Investigations*. Presentation at the Army National Guard Accident Investigation course, Ashburn, Virginia, August 5–8, 2019.
- E. Byrne, *Human Factors Investigations*. Presentation at the Army National Guard Accident Investigation course, Ashburn, Virginia, August 6–15, 2019.
- E. Gibson, *Briefing on Taxi Overflight Air Canada Flight 759*. Presentation at the A4A Cabin Operations Committee quarterly meeting, Washington, DC, August 7–8, 2019.
- B. English, *Beyond 107: Training and proficiency standards and procedures for public safety operations*, North Carolina Department of Transportation (DOT) Public Safety UAS Conference. Greensboro, North Carolina, August 11–13, 2019.
- H. Kemner, *NTSB Overview and Case Studies*. Presentation at the First Responders meeting, Orange, Virginia, August 12, 2019.
- A. Sauer, *NTSB Overview and Case Studies*. Presentation at the Transportation Safety Institute Experimental Aircraft course, Oshkosh, Wisconsin, August 21, 2019.
- T. Little, *NTSB Accident on Airports*. Presentation at the Airport Emergency Exercise, Redmond, Oregon, August 23, 2019.
- J. Sedor, *NTSB Update*. Presentation at the Quad-chair NASA meeting, Orlando, Florida, August 26–29, 2019.
- K. Wilson, *Investigating Human Factors in Transportation Accidents*. Presentation at the Quad-agency Working 27, 2019.
- B. Soper, *Traffic Collision Avoidance System Reporting... Where Do they Go?* Presentation at the National Business Aviation Association Chief Pilot Roundtable, Washington, DC, August 28–29, 2019.
- A. Scott, *NTSB Case Studies on Risk Management*. Presentation at the Denver International Airport Safety Stand-down, Denver, Colorado, September 1, 2019.
- P. Suffern, *Weather Considerations in Helicopter Operations and Investigations*. Presentation at the Air Methods Meteorological training, Denver, Colorado, September 3, 2019.
- D. Hogenson, *Updates to NTSB Operations*. Presentation at the FAA Flight Standards District Office (FSDO), Spokane, Washington, September 4, 2019.
- B. Bramble, *Human Factors in Civil Aircraft Accident Investigation: What is the state of the art and where do we go from here?* Kickoff Presentation for Multinational Panel at the International Society for Air Safety Investigators Annual Seminar, The Hague, Netherland, August 31 to September 6, 2019.
- J. Sedor, *Do we need a space Annex 13?* International Society of Air Safety Investigators Annual Seminar, The Hague, Netherlands, September 5, 2019.
- D. Eick, *NTSB Turbulence Safety Study*. Presentation at the National Weather Association annual meeting, Huntsville, Alabama, September 7, 2019.
- F. Salazar, *NTSB Operations and Case Studies Involving Emergency Medical Services*. Presentation at Angel Flight West, Portland, Oregon, September 8, 2019.
- B. Koschig, *ATC Investigations*. Presentation at the Aircraft Accident Investigation course, Ashburn, Virginia, September 9–20, 2019.
- P. Suffern, *Meteorology Investigations*. Presentation at the Aircraft Accident Investigation course, Ashburn, Virginia, September 9–20, 2019.
- S. Etcher, *Operations Investigations*. Presentation at the Aircraft Accident Investigation course, Ashburn, Virginia, September 9–20, 2019.
- E. Byrne, *Human Factors Investigations*. Presentation at the Aircraft Accident Investigation course, Ashburn, Virginia, September 9–20, 2019.
- J. Fedok, *Survival Factors Investigations*. Presentation at the Aircraft Accident Investigation course, Ashburn, Virginia, September 9–20, 2019.
- C. Crookshanks, *Structures, Site Management and Damage Classification*. Presentation at the Aircraft Accident Investigation course, Ashburn, Virginia, September 9–20, 2019.
- K. Wilson, *Using Post-event Fatigue Investigations to Improve Safety*. Presentation at the 24th International Symposium on Shiftwork, Coeur d'Alene, Idaho, September 9–13, 2019.
- T. LeBaron and K. Dunks, *Data Analytics in Aviation Safety*. Presentation at the General Aviation-Air Safety Investigators Conference, Dallas, Texas, September 16–18, 2019.
- D. Hogenson, *Updates to NTSB Operation*. Presentation at FAA FSDO, Albuquerque, New Mexico, September 16, 2020.
- A. Sauer, *NTSB Overview and Case Studies*. Presentation at the Transportation Safety Institute Experimental Aircraft course, Oshkosh, Wisconsin, September 18, 2019.
- J. Lindberg, *NTSB Drone Team Support and Capabilities*. Presentation at the US Helicopter Safety Team Annual Meeting, Fort Worth, Texas, September 19, 2019.
- B. Koschig, *ATC Investigations*. Presentation at the Embry-Riddle Aeronautics University, Daytona Beach, Florida, September 23, 2019.
- A. Olvis, *ATC Investigations*. Presentation at the Coast Guard Advanced Aviation Mishap Analysis course, Ashburn, Virginia, September 23–27, 2019.

APPENDIX B: Advocacy and Outreach (continued)

- D. Eick, *Meteorology Investigations*. Presentation at the Coast Guard Advanced Aviation Mishap Analysis course, Ashburn, Virginia, September 23–27, 2019.
- S. Williams, *Air Tour Operations: Safety Priorities*. Presentation at the FAA Alaska Air Tour Operators meeting, Ketchikan, Alaska, September 24, 2019.
- M. Smith, *NTSB and the Most Wanted List*. Presentation at the Utah State University, Salt Lake City, Utah, September 24, 2019.
- S. Williams, *Air Tour Operations: Safety Priorities*. Presentation at the FAA Alaska Air Tour Operators meeting, Juneau, Alaska, September 26, 2019.
- D. Bower, *NTSB Space Accident Investigations*. Presentation at the 2019 Material and Science Technology Conference, Portland, Oregon, September 29–30, 2019.
- J. Rodi, *Agricultural Aircraft Safety in Colorado*. Presentation at the Agricultural Aircraft Association Safety Standdown, Loveland, Colorado, October 1, 2019.
- B. English, *Silk Purse from a Sow's Ear: Making actionable photogrammetric products from poor data acquisition*. Presentation at PixD4 User Conference, Denver, Colorado, October 2–4, 2019.
- D. Bowling, *Balloon Accidents and What Can We Learn?* Presentation at the FAA Wings Seminar, Albuquerque, New Mexico, October 8, 2019.
- D. Bowling, *Risk Management in Ballooning*. Presentation at the International Balloon Festival, Albuquerque, New Mexico, October 7–10, 2019.
- D. Eick, *Weather Related Issues*. Presentation at the Airline Dispatcher Federation, Dallas, Texas, October 7–9, 2019.
- K. Wilson, *The Human Factor*. Presentation at the International Aviation Women's Association Conference (Human Factors Panel), Lima, Peru, October 15, 2019.
- J. Silliman, *NTSB Most Wanted List-Part 135 Operations Flight Operations*. Presentation at the Transportation Safety Board Canada Investigator Workshop, Ontario, Canada, October 21–25, 2019.
- D. Lawrence, M. Folkerts, and L. McCarter, *NTSB Case Studies: Part 135 Flight Data Monitoring and SMS Recommendations*. Presentation at the National Business Aviation Association committee meeting, Las Vegas, Nevada, October 22–24, 2019.
- M. Huhn, *ATC and You: How Much Trust?* Bayflight 2019 Annual Conference, Redwood City, California, October 26, 2019.
- T. Sorenson, *NTSB and Accident Case Studies*. Presentation at the Transportation Safety Institute Basic Accident Investigation course, Oklahoma City, Oklahoma, October 29, 2019.
- E. Gibson, *Briefing on Taxi Overflight Air Canada Flight 759*. Presentation at the A4A Cabin Operations Committee Quarterly meeting, Washington, DC, November 6–7, 2019.
- J. Rodi, *Agriculture Aircraft Safety*. Presentation at the National Agricultural Aircraft Association Convention, Orlando, Florida, November 11–16, 2019.
- S. Etcher, *Operations Investigations*. Presentation at the Aircraft Accident Investigation for Aviation Professionals course, Ashburn, Virginia, November 13–14, 2019.
- A. McCarter, *NTSB Overview and Case Studies*. Presentation at the University of the District of Columbia –Aviation and Maintenance Technology Community College, Washington, DC, November 18, 2019.
- J. Rodi, *Low Altitude Hazards*, FAA and Low-Altitude Obstacle Session, National Agricultural Aviation Association 2019 Expo, Orlando, Florida, November 18, 2019.
- C. Hatch, *Public Aircraft Safety*. Presentation at the United States Forest Service Convention, Woodland, Texas, November 18–19, 2019.
- P. Suffern, *Staying Updated on the Weather-Why it is Important*. Presentation at the Wings/FAA Safety Team meeting, Raleigh, North Carolina, November 19, 2019.
- L. Ward, D. Bower, M. Bauer, and C. Crookshanks, *NTSB accident investigation; Data Processes; Drone Use*. Presentation at Blue Origin Aerospace, Van Horn, California, November 20, 2019.
- T. Jacky, *NTSB Alaska Investigations and Safety Recommendation Status*. Presentation at the Radio Technical Commission for Aeronautics Committee on Alaska Terrain Awareness Warning Systems, Anchorage, Alaska, December 2–6, 2019.
- D. Eick, *Aviation Weather Related Accidents*. Presentation at the National Oceanic Atmospheric Administration Safety Standdown, Lakeland, Florida, December 5, 2019.
- J. Silliman, *Illegal Part 135 Accidents*. Presentation at the Fargo FSDO Safety Workshop, Fargo, North Dakota, December 6, 2019.
- T. LeBaron, *2019 Alaska Accidents in Review*. Presentation at the Alaska Aviation Foundation, Anchorage, Alaska, December 12–14, 2019.

Participation on Panels

- D. Schulze and F. Hilldrup participated in panel at the Aviation Symposium with the Vice Chairman, Tysons, Virginia, February 6, 2019.
- J. Sedor, panelist at the Airline Pilots Association meeting, Washington, DC, April 4, 2019.
- B. Soper, expert panelist at the Investigating Human Factors (IM303) course, Ashburn, Virginia, July 9–10, 2019.

Instruction and Instructional Presentations

- C. Crookshanks, *Management and Damage Classification. Aircraft Accident Investigation (AS101) Course* Presentation at the NTSB Training Center, Ashburn, Virginia, April 1–12, 2019.
- K. Dunks, *NTSB and Aviation Safety*. Presentation at the Montana State University Aviation Law class, Bozeman, Montana, April 2, 2019.
- D. Eick, *Meteorology Investigations*. Presentation at the US Coast Guard Advanced Mishap Analysis Training, Ashburn, Virginia, April 29, 2019.
- C. Crookshanks and R. Swaim taught at the NTSB Office of D. Eick, *Meteorological Investigations*. Presentation at the Coast Guard Advanced Marine Mishap Analysis Course (MS103), Ashburn, Virginia, March 25–29, 2019.
- S. Etcher, *Operations Investigations*. Presentation at the Aircraft Accident Investigations for Aviation for Professionals (AS30I), Ashburn, Virginia, March 20–21, 2019.
- K. Dunks, *NTSB and Aviation Accident Investigations*. Presentation at the Montana State University Aviation Safety class, Bozeman, Montana, April 1, 2019.
- S. Silva, *Q&A with an NTSB Investigator*. Presentation/Skype at the University of Waterloo STEM outreach class, Ontario, Canada, April 1, 2019.
- E. Byrne, *Human Factors Investigations*. Presentation at the Aircraft Accident Investigation (AS101), Ashburn, Virginia, April 1–12, 2019.
- J. Fedok, *Survival Factors Investigations*. Presentation at the Aircraft Accident Investigation (AS101), Ashburn, Virginia, April 1–12, 2019.
- A. Olvis, *ATC Investigations*. Presentation at the Aircraft Accident Investigation (AS101), Ashburn, Virginia, April 1–12, 2019.
- P. Suffern, *Meteorology Investigations*. Presentation at the Aircraft Accident Investigation (AS101), Ashburn, Virginia, April 1–12, 2019.
- D. Lawrence, *Operations Investigations*. Presentation at the Aircraft Accident Investigation (AS101), Ashburn, Virginia, April 1–12, 2019.

APPENDIX B: Advocacy and Outreach (continued)

- K. Wilson, *Interviewing*. Presentation at the Coast Guard Advanced Mishap Analysis and Reporting Course, Ashburn, Virginia, May 13–17, 2019.
- B. Koschig, *ATC Investigations*. Presentation at the Coast Guard Advanced Aviation Mishap Analysis and Reporting Course, Ashburn, Virginia, May 13–17, 2019.
- D. Eick, *Meteorology Investigations*. Presentation at the Coast Guard Advanced Aviation Mishap Analysis and Reporting Course, Ashburn, Virginia, May 13–17, 2019.
- Marine Safety Seafloor Investigations Workshop, Ashburn, Virginia, July 11, 2019.
- E. Malinowski taught classes at Tri-Annual Airport Exercise, Chicago O'Hare Airport, Des Plaines, Illinois, September 2019.
- C. Crookshanks taught at Frontier Airlines Go-Team Training, Denver, Colorado, September 18, 2019.
- D. Bower taught at the Delta Airlines Go-team training, Atlanta, Georgia, November 12, 2019.
- D. Bower taught at the American Airlines Go-team training, Dallas, Texas, November 14, 2019.

Participation in / Attendance at Meetings and Conferences

- M. Folkerts attended the Safety Committee Risk Assessment meeting, NBAA National Convention, Dallas, Texas, January 22–25, 2019.
- L. Ward and D. Bower attended the FAA Commercial Space Transportation 2019 Conference, Washington, DC, February 12–13, 2019.
- J. Sedor attended the A4A Flight Safety Committee, Dallas, Texas, February 20–21, 2019.
- D. Bowling attended a meeting at the FAA Southwest Region regional office, Addison, Texas, March 2019.
- C. Liedler attended the quarterly safety meeting at the Denver International Airport, Denver, Colorado, March 2019.
- D. Bowling attended a meeting at the FAA North Texas FSDO, Irving, Texas, March 2019.
- J. Sedor, attended the Commercial Crew Program meeting, Melbourne, Florida, March 1–2, 2019.
- R. Hicks attended the 2019 Helicopter Association International Heli-Expo, Atlanta, Georgia, March 4, 2019.
- D. Bowling attended a meeting at the FAA Albuquerque FSDO, Albuquerque, New Mexico, March 7, 2019.
- E. Malinowski attended the Midway Emergency Planning Meeting, Chicago Midway Airport, Cicero, Illinois, April 2019.
- D. Schulze attended the FAA Commercial Aviation Safety Team meeting, Washington, DC, April 4, 2019.
- D. Schulze attended the Aero Club luncheon with the Chairman, Washington, DC, April 5, 2019.
- T. LeBaron attended the General Aviation Manufacturers Association, Washington, DC, April 7, 2019.
- H. Reichel attended the Airbus Investigation Workshop, Toulouse, France, April 15–19, 2019.
- M. Folkerts attended meeting on the Management of Tower Lighting, Engineering Society of North America, Washington, DC, April 18, 2019.
- T. LeBaron attended the Air Medical Operators Association Safety Committee meeting, Washington, DC, May 7, 2019.
- D. Schulze attended a meeting with representatives of the Nigerian Accident Investigation Bureau, Washington, DC, May 9, 2019.
- T. LeBaron attended the General Aviation Joint Steering Committee meeting, Frederick, Maryland, May 14, 2019.
- C. Johnson attended the Southeast Alaska Helicopter Operation Preseason Standdown, Ketchikan, Alaska, May 19, 2019.
- C. Liedler attended the quarterly safety meeting at the Denver International Airport, Denver, Colorado, June 2019.
- A. Sauer, seminar participant at the FAA Unmanned Aircraft Systems Symposium, Baltimore, Maryland, June 3–5, 2019.
- M. Hodges attended Continental Motors meetings, Mobile, Alabama, June 18, 2019.
- D. Schulze and F. Hilldrup, attended the Flight Safety Foundation Speaker Series, Arlington, Virginia, June 25, 2019.
- V. McKenny attended the University of California at Los Angeles Emergency Response Tabletop Exercise, Los Angeles, California, July 22, 2019.
- V. McKenny attended the annual meeting of the United States Helicopter Safety Team meeting, Torrance, California, August 13–14, 2019.
- D. Schulze attended the FAA Commercial Aviation Safety Team meeting, Hampton, Virginia, August 14, 2019.
- D. Bowling, E. Malinowski, A. Sauer, J. Lindberg, C. Hatch, and A. Lemishko attended the General Aviation-Air Safety Investigators workshop, Fort Worth, Texas, September 2019.
- C. Hatch, J. Lindberg, A. Lemishko, and E. Malinowski attended the Air Tractor tour and briefing, Olney, Texas, September 2019.
- A. Sauer, C. Hatch, J. Lindberg, E. Malinowski, and A. Lemishko attended briefings at the US Helicopter Safety Team, Fort Worth, Texas, September 2019.
- F. Hilldrup and L. Schiada, attended 2019 International Society for Air Safety Investigators Annual Seminar, The Hague, Netherland, August 31 to September 6, 2019.
- D. Schulze, T. LeBaron, M. Folkerts, J. Lindberg, A. Sauer, and S. Williams attended the Alaska Part 135 Roundtable, Anchorage, Alaska, September 6–9, 2019.
- A. Olvis, M. Richards, and S. Etcher attended the Communicating for Safety Conference, Las Vegas, Nevada, September 16–18, 2019.
- A. Nixon and A. Swick attended the Phoenix Airport Exercise, Phoenix, Arizona, September 18, 2019.
- C. Liedler attended the Denver International Airport Safety Standdown, Denver, Colorado, September 19, 2019.
- F. Hilldrup attended the ICAO triennial assembly meetings, Montreal, Canada, September 23–27, 2019.
- M. Hodges attended meetings at Lycoming Engines, Williamsport, Pennsylvania, September 25, 2019.
- C. Deforge attended a meeting to discuss safety organization after the merger between United Technologies Aerospace Systems and Rockwell Collins, Collins Aerospace, Charlotte, North Carolina, October 10, 2019.
- T. Fox attended meetings and emergency exercises at the DuPage County Airport, West Chicago, Illinois, October 17, 2019.
- B. Soper attended the Drone Advisory Committee meetings, Washington, DC, October 17–18, 2019.
- D. Baker attended National Agricultural Aviation Association Safety Committee meeting, Denver, Colorado, October 19, 2019.
- J. Sedor attended the NASA Annual Program Review, Washington, DC, October 21–24, 2019.
- T. LeBaron and K. Dunks, attended the ASTM International F44 Committee meeting, Houston, Texas, October 22–24, 2019.
- J. Sedor attended the NTSB Investigative Roundtable, InfoShare, Seattle, Washington, October 29–31, 2019.
- F. Hilldrup, attended the Flight Safety Foundation International Air Safety Summit Seminar, Taipei, Taiwan, November 4–6, 2019.
- M. Hodges attended meetings at Keystone Turbine Services, Coatesville, Pennsylvania, November 5, 2019.
- D. Schulze attended the A4A Flight Safety Committee meeting, Washington, DC, November 6–8, 2019.
- A. Nixon attended the Phoenix Airport Exercise, Phoenix, Arizona, November 13, 2019.
- T. LeBaron, attended the General Aviation Joint Steering Committee meeting, Alexandria, Virginia, November 13, 2019.
- D. Schulze accompanied the NTSB Chairman to NetJets Aviation, Columbus, Ohio, November 21–22, 2019.
- B. Soper attended the MIT Lincoln Lab Workshop, Washington, DC, November 20–21, 2019.
- B. English attended meetings at Google Wing, Christiansburg, Virginia, December 4–5, 2019.

APPENDIX B: Advocacy and Outreach (continued)

- D. Schulze attended the Commercial Aviation Safety Team meeting, Arlington, VA, December 5, 2019.
- D. Bowling attended meeting at the FAA Denver FSDO, Denver, Colorado, December 6, 2019.
- J. Sedor attended the NASA Commercial Crew Program Demo 1 Launch, Cape Canaveral, Florida, December 19, 2019.

Hosting

- F. Hilldrup, hosted European Union Aviation Safety Agency representatives at NTSB Headquarters, Washington, DC, February 8, 2019.

- F. Hilldrup, hosted United Kingdom DOT and Air Accident Investigation Branch representatives at NTSB Headquarters, Washington, DC, February 11, 2019.
- F. Hilldrup, hosted Airbus representative at NTSB Headquarters, Washington, DC, July 10, 2019.
- F. Hilldrup, hosted Embraer representatives at NTSB Headquarter, Washington, DC, July 14, 2019.
- F. Hilldrup, hosted Bahrain transportation officials at NTSB Headquarters to discuss training and protocols, Washington, DC, October 3, 2019.

- F. Hilldrup, hosted Oman aviation officials at NTSB Headquarters, Washington, DC, October 8, 2019.
- F. Hilldrup, hosted Japan Transportation Safety Board officials at NTSB Headquarters, Washington, DC, December 1, 2019.
- F. Hilldrup, hosted Bureau d'Enquêtes et d'Analyses pour la Sécurité de l'Aviation civile officials at NTSB Headquarters, Washington, DC, December 12–13, 2019.

OFFICE OF HIGHWAY SAFETY

Testimony Before Congress

- K. Poland, *Examining the Federal Role in Improving School Bus Safety*. House Committee on Transportation and Infrastructure, Subcommittee on Highways and Transit, Washington, DC, July 25, 2019.
- R. Sumwalt, *Highly Automated Vehicles: Federal Perspectives on the Deployment of Safety Technology*. US Senate Committee on Commerce, Science & Transportation, Washington, DC, November 20, 2019.

Presentations and Briefings

- K. Bragg, *Highway Risk Factors: Speed, Alcohol and Distracted Driving*. Community traffic safety event, Oxon Hill, Maryland, April 27, 2019.
- E. Becic, *Automation on the Roads Today: Crash Investigation Perspective*. AV/Al conference, Johns Hopkins Applied Physics Laboratory, Laurel, Maryland, February 13, 2019.
- K. Poland, *NTSB Investigations into Automated Vehicles*. National Bike Summit, Arlington, Virginia, March 10, 2019.
- K. Bragg, *The Human-Machine Interface in [advanced driver-assistance systems] ADAS Crash Investigation*. Operation Lifesaver's Annual Conference, Long Beach, California, April 1, 2019.
- R. Molloy, *Commercial Vehicle Safety Most Wanted 2019—Focus on Driver Fatigue and Crash Avoidance Technologies*. SAE Government and Industry Meeting, Washington, DC, April 3, 2019.
- D. Pereira, *NTSB and Automated Vehicle Crash Investigations*. Arizona Conference on Roads and Streets, Tucson, Arizona, April 27, 2019.

- D. Pereira, *NTSB Office of Highway Safety 101*. National Traffic Safety Resource Prosecutor Conference, Williamsburg, Virginia, April 30, 2019.
- D. Pereira, *NTSB Highway Investigations and Parallel Law Enforcement Officer Criminal Investigations*. Police Chiefs Council NTSB/FBI Briefing, Bethany Beach, Delaware, May 7, 2019.
- M. Fox, *Baltimore/Chattanooga School Bus Crashes*. Virginia Student Pupil Transportation Safety Conference, Washington, DC, June 19, 2019.
- M. Beckjord, *Safety issues identified from the School Bus [Special Investigation Report] SIR and the Oakland, Iowa School Bus Fire Report*. Iowa Pupil Transportation Association Annual Meeting, Des Moines, Iowa, July 15, 2019.
- M. Fox, *NTSB Update on Crashes and Products and Risk Factors Associated with Injury Producing Motorcycle Crashes in the US*. Annual State Motorcycle Safety Administrators Conference, Grand Rapids, Michigan, September 10–13, 2019.
- S. Harley, D. Pereira, and M. Fox, *NTSB Annual Update—Crash Investigations and Board Products*. Commercial Vehicle Safety Alliance Annual Fall Conference, Biloxi, Mississippi, September 24, 2019.
- K. Poland, S. Harley, and M. Sweeney, *School Bus Transportation Safety Issues*. The National Association of State Directors of Pupil Transportation Services, Arlington, Virginia, October 17, 2019.
- S. Harley and M. Sweeney, *Safety Issues Identified in the Rochester, Indiana, Crash Investigation*. Townhall Meeting at The National Association for Pupil Transportation conference, November 5, 2019.

- R. Molloy, *The Role of Automation in Transportation Crashes*. Massachusetts Institute of Technology, Boston, Massachusetts, November 19, 2019.
- R. Molloy, *The NTSB's Most Wanted List of Highway Improvements: 2019*. University of Massachusetts, 2019 Commercial Vehicle Safety Summit, Amherst, Massachusetts, November 20, 2019.

Participation on Panels

- T. Barth, Moderator, Panel Discussion, *Battery Safety in Electric Vehicles*. SAE Government and Industry Meeting, Washington, DC, April 5, 2019.
- D. Rayburn, *Distracted Driving: Perspectives from the Trucking Industry*. Panel Participant for 3rd Roundtable, Washington, DC, April 11, 2019.

Instructional Presentations

- K. Bragg, *NTSB's Role in Transportation Safety*. Presentation to Concordia College Business Students, NTSB Training Center, Ashburn, Virginia, May 23, 2019.
- K. Bragg, *Youth Transportation Safety and Careers in STEM*. Presentation to Youth@Work/Summer Youth Enrichment Program in Prince George's County, Maryland, July 9, 2019.
- M. LaPonte, *NTSB Update—Crash Investigations and Board Products*. Presentation at United Motorcoach Association Safety Seminar, NTSB Training Center, Ashburn, Virginia, December 3, 2019.
- S. Harley and M. M. LaPonte, *Overview of Current NTSB Motor Coach Investigations*. Presentation at United Motorcoach Association Safety Seminar, NTSB Training Center, Ashburn, Virginia, December 3, 2019.

OFFICE OF MARINE SAFETY

Testimony Before Congress

- B. Curtis, *Small Passenger Vessel Safety (SPV)*. House Committee on Transportation and Infrastructure, Sub-committee on Coast Guard and Maritime Transportation, Washington, DC, November 14, 2019.

Presentations and Briefings

- B. Curtis and M. Turrell, *MV Stella Daisy (Marshall Islands) VDR Data Analysis*. Presentation to Marshall Islands flag representative, Washington, DC, February 27, 2019.
- M. Turrell, *Office of Marine Safety Overview*. Presentation to 2019 Sea Trade Conference, Miami, Florida, March 8–12, 2019.
- B. Curtis, *Common Issues Affecting Safety on the Mississippi River and Associated Investigations*. Presentation to New Orleans–Baton Rouge Pilots, Washington, DC, May 21, 2019.
- B. Curtis, *El Faro Casualty Investigation*. Presentation to Chesapeake Area Professional Captains Association, Annapolis, Maryland, March 25, 2019.
- B. Curtis, *El Faro Casualty Investigation*. Presentation to Massachusetts Maritime Academy Maritime Education Summit, Buzzards Bay, Massachusetts, April 11, 2019.
- M. Kucharski, *NTSB Marine Safety Investigation Process*. Presentation to Council of American Master Mariner's 2019 Annual Conference, San Diego, California, April 25, 2019.
- B. Curtis, *NTSB Marine Safety Investigation Process*. Presentation to Maritime Legal Association Spring Meeting, Washington, DC, April 30, 2019.
- M. Turrell, *Office of Marine Safety Overview*. Presentation to Europe–Marine Accident Investigators' International Forum 2019 Conference, Ljubljana, Slovenia, May 13–15, 2019.
- R. Jones, *El Faro Casualty Investigation*. Presentation to Philadelphia Tug/Barge Conference 2019, Philadelphia, Pennsylvania, May 14, 2019.
- B. Curtis, *NTSB and Office of Marine Safety Overview*. Presentation to Coast Guard Sector Northern New England Commanding Officers Conference on Leadership, Portland, Maine, May 30, 2019.
- Chairman Sumwalt, B. Curtis, and M. Turrell, *USS John S. McCain Report and Associated Navy Recommendations*. Presentation to Secretary of the Navy and Chief of Naval Operations, Washington, DC, June 11, 2019.

- R. Jones, *Marine Safety Investigation Safety Issues*. Presentation to US Army Corps of Engineers Hydrographic Survey Community Conference, Craven Point, New Jersey, July 5, 2019.
- M. Turrell, *Deep Sea Recovery Workshop*. Presentation to domestic and international partners, Washington, DC, July 11, 2019.
- B. Curtis, *Major Marine Casualty Classification in Joint Rulemaking with Coast Guard*. Presentation to Coast Guard investigative staff, Washington, DC, August 15, 2019.
- B. Curtis and M. Turrell, *Developing Emerging Sea Floor Recovery Technologies Memorandums of Understanding*. Presentation to Woods Hole Oceanographic Institution, Woods Hole, Massachusetts, August 28, 2019.
- R. Jones, *Marine Safety Investigations Overview*. Presentation to Americas–Marine Accident Investigators International Forum 2019 Conference, Mexico City, Mexico, September 8–10, 2019.
- B. Curtis, *SPV Conception Investigation*. Presentation to Sen. Feinstein congressional staff, District of Columbia, September 19, 2019.
- B. Young, *Advocating NTSB Most Wanted List*. Presentation to Passenger Vessel Association (PVA) Conference, St. Augustine, Florida, September 24, 2019.
- B. Curtis, *Marine Safety Activity*. Presentation to Committee on the Marine Transportation System quarterly meeting, US DOT, Washington, DC, September 24, 2019.
- B. Curtis, *Marine Safety Aspects on Port Security*. Presentation to Committee Interaction and Integration Seminar (Port Security), National Harbor, Maryland, September 26, 2019.
- B. Curtis and M. Turrell, *Towing Vessel Investigations and the Safety Aspects of New Regulations*. Presentation to Maritime Institute of Technology and Graduate Studies, Subchapter M Conference, Linthicum Heights, Maryland, September 27, 2019.
- L. LaRue, *Marine Safety 2018 Casualties*. Presentation to Marine Accident Investigators' International Forum 2019 Conference, Naples, Italy, October 12–19, 2019.
- B. Curtis and M. Turrell, *NTSB Overall Operations*. Presentation to Coast Guard, Washington, DC, October 23, 2019.
- E. Stolzenberg, *Marine Safety Fire Investigations on Small Passenger Vessels*. Presentation to PVA Rivers Regional Meeting, Chicago, Illinois, October 24, 2019.
- B. Curtis, *Marine Safety Fire Investigations on Small Passenger Vessels*. Presentation to PVA Western Regional Meeting, Lake Tahoe, Nevada, October 29, 2019.
- E. Stolzenberg, *Marine Safety Fire Investigations on Small Passenger Vessels*. Presentation to PVA Eastern Regional Meeting, Alexandria, Virginia, November 5, 2019.
- R. Jones, *Navigation Risk Assessments in Safety Management Systems*. Presentation to The State University of New York Maritime College Navigation Risk Assessment Conference, Ft. Schuyler, New York, November 12, 2019.
- B. Curtis, *NTSB Marine Safety Operations*. Presentation to Transportation Safety Board of Canada, Director of Marine Safety, Ottawa, Canada, November 21, 2019.
- M. Turrell, *Seafloor Recovery Technologies at Marshall Islands*. Presentation to Seafloor Recovery Technologies Conference, London, United Kingdom and Athens, Greece, December 2–8, 2019.
- B. Curtis, *Small Passenger and Inland Waterway Safety*. Presentation to 2019 New Orleans WorkBoat Conference, New Orleans, Louisiana, December 4–6, 2019.

Instruction and Instructional Presentations

- E. Stolzenberg, "Office of Marine Safety Overview." NTSB-101, *Coast Guard Industry Training*, NTSB Training Center, Ashburn, Virginia, March 25, 2019.
- E. Stolzenberg, *El Faro Casualty Investigation*. Presentation at The State University of New York Maritime College, Ft. Schuyler, New York, April 9, 2019.
- R. Jones, "Office of Marine Safety Overview." NTSB-101, *Coast Guard Industry Training*, NTSB Training Center, Ashburn, Virginia, April 29, 2019.
- R. Jones, "NTSB Marine Investigation Process." Presentation at *Coast Guard Investigating Officers Course*, Yorktown, Virginia, May 8, 2019.

Participation in / Attendance at Meetings and Conferences

- R. Jones, Admiralty Law Committee 2019 Conference, New York City, New York, February 14, 2019.
- E. Stolzenberg, US representative, International Maritime Organization (IMO) Ship Systems and Equipment subcommittee working group, London, United Kingdom, March 2–9, 2019.
- C. Bell, US representative, IMO Human Element, Training and Watchkeeping subcommittee working group, London, United Kingdom, April 29–May 1, 2019.

APPENDIX B: Advocacy and Outreach (continued)

- B. Curtis, Transportation Safety Board of Canada and NTSB annual agency meeting, Washington, DC, Jun 17, 2019.
- B. Curtis, US representative, Implementation of IMO Instruments subcommittee working group, London, United Kingdom, July 1–5, 2019.

Media Presentations

- MS blog, *NTSB Marine Investigation Authority*, Washington, DC, May 1, 2019.
- “Disasters at Sea,” NTSB *El Faro* Casualty Investigation. National Geographic cable television channel, Washington, DC, March 7; Aboard SS *John Brown* (US), Baltimore, Maryland, April 2, 2019.
- “Drain the Ocean,” NTSB Search for *El Faro* Voyage Data Recorder With Federal Partners. National Geographic cable television channel, Washington, DC, March 7; Aboard SS *John Brown* (US), Baltimore, Maryland, April 2, 2019.

Hosting

- B. Curtis and J. Marcus (SRC) co-host, Coast Guard open recommendations, Coast Guard, Washington, DC, June 26, 2019.
- B. Curtis and F. Hilldrup (AS) co-host NTSB Cooperative safety investigations, Commanding Officer Navy Safety Center, Washington, DC, June 27, 2019.

OFFICE OF RAILROAD, PIPELINE AND HAZARDOUS MATERIALS INVESTIGATIONS

Presentations and Briefings

- R. Hall, *Safety Initiatives and Open Accident Investigations*. Presentation to BNSF Railway, Washington, DC, January 22, 2019.
- D. Bucher, *Test Center Technology Update*. Presentation to Association of American Railroads, Pueblo, Colorado, March 25, 2019.
- R. Hall, *Update on Current NTSB Operations and Open Pipeline Investigations*. Presentation to American Gas Association Operations Committee, Washington, DC, April 30, 2019.
- R. Hall, *DuPont, Washington, Accident Investigation*. Presentation to Amtrak, Washington, DC, May 8, 2019.
- R. Hall, *Open Safety Recommendations*. Presentation to Metropolitan Transportation Authority, Washington, DC, May 21, 2019.
- R. Hall, *Open Safety Recommendations*. Presentation to Federal Railroad Administration, Washington, DC, July 8, 2019.
- R. Hall, *Professional Engineer Review of Design Work Related to the Merrimack Valley, Massachusetts, Pipeline Accident and to Other Pipeline Accidents*. Presentation to National Council of Examiners for Engineering and Surveying, National Meeting, Washington, DC, August 2, 2019.
- R. Hall, *Open Safety Recommendations*. Presentation to Pipeline and Hazardous Materials Safety Administration, Washington, DC, August 12, 2019.
- R. Hall, *Update on Current NTSB Operations and Open Pipeline Investigations*. Presentation to National Association of Pipeline Safety Professionals National Meeting, South Portland, Maine, September 11, 2019.

- P. Stancil, *Hazardous Materials Transportation*. Presentation to Transportation Research Board, Washington, DC, September 12, 2019.
- J. Southworth, *NTSB Most Wanted List and What to Expect When NTSB Shows Up for an Accident*. Presentation to Railway Supply Institute/Railway Systems Suppliers Inc. Railway Interchange Conference and American Railway Engineering and Maintenance-of-Way Association Conference, September 22–29, 2019.
- D. Bucher, *Update on Current NTSB Railroad Investigations*. Presentation to American Railway Engineering and Maintenance-of-Way Association National Meeting, Minneapolis, Minnesota, September 23, 2019.
- R. Payan, *NTSB Investigative Process*. Presentation to Transportation Safety Institute, Boston, Massachusetts, November 4–8, 2019.
- R. Evans, *Overpressurization of Natural Gas Distribution System, Explosions, and Fires in Merrimack Valley, Massachusetts*. Presentation to Pipeline Safety Trust, New Orleans, Louisiana, November 6–7, 2019.
- J. Gordon, *Track Safety Standards and Rail Integrity*. Presentation to Rail Safety Advisory Committee, Washington, DC, November 20, 2019.
- R. Frigo, *NTSB Investigative Process*. Presentation to National Investigation Authorities of the European Union, Lille, France, November 25–26, 2019.
- M. Hiller, *NTSB Investigative Process*. Presentation to Transportation Safety Institute, San Jose, California, December 16–20, 2019.

- R. Payan, *NTSB Investigative Process*. Presentation to Transportation Safety Institute, San Jose, California, December 16–20, 2019.

Instruction

- D. Bucher, *NTSB Rail Training Course*, NTSB Training Center, Ashburn, Virginia, May 29–30, 2019.
- R. Hall, *NTSB Rail Training Course*, NTSB Training Center, Ashburn, Virginia, May 29–30, 2019.
- R. Payan, *NTSB Rail Training Course*, NTSB Training Center, Ashburn, Virginia, May 29–30, 2019.
- J. Southworth, *NTSB Rail Training Course*, NTSB Training Center, Ashburn, Virginia, May 29–30, 2019.

Participation in / Attendance at Meetings and Conferences

- D. Bucher, Review of Railyard Accidents, Switching and Operations Fatality Analysis working group, Washington, DC, April 1, 2019.
- P. Stancil, Tank Car Committee Meeting, Association of American Railroads, Denver, Colorado, April 19–23, 2019.
- R. Gunaratnam, Dangerous Goods Advisory Council, Baltimore, Maryland, October 29, 2019.
- R. Gunaratnam, Battery Safety Council Meeting, Washington, DC, November 19–20, 2019.
- P. Stancil, Battery Safety Council Meeting, Washington, District of Columbia, November 19–20, 2019.

OFFICE OF RESEARCH AND ENGINEERING

Presentations and Briefings

- J. Price, *NTSB's Most Wanted List—Impairment*. Presentation at American Academy of Forensic Sciences Workshop, Baltimore, Maryland, February 19, 2019.
- N. Webster, *NTSB's Most Wanted List—Impairment*. Presentation at American Academy of Forensic Sciences Workshop, Baltimore, Maryland, February 19, 2019.
- S. Lack and T. Cybanski, *Velocity Analysis from Video Cameras*. Presentation to 2019 EDR Summit, Houston, Texas, March 4, 2019.
- I. Cheung, *Data-Driven vs. Responsiveness*. Presentation to Washington Area Bicyclist Association 2019 Washington Region Vision Zero Summit, Washington, DC, March 14, 2019.
- N. Doble, *Enforcement: Speed Camera Effectiveness*. Presentation to Washington Area Bicyclist Association 2019 Washington Region Vision Zero Summit, Washington, DC, March 14, 2019.
- J. Price, *NTSB's Most Wanted List—Impairment and Collision Avoidance*. Presentation to Lifesavers Conference, Louisville, Kentucky, March 31–April 2, 2019.
- I. Cheung, *Geography of Motor Vehicle Crashes Involving Cyclists in the United States*. Presentation to 2019 American Association of Geographers Annual Meeting, Washington, DC, April 7, 2019.
- S. Lack, *Flight Path Reconstruction from Cockpit Video Using SynthEyes*. Presentation to Accident Investigators-Performance (AIP) Committee, Paris, France, April 7–12, 2019.
- K. Renze, *Simulator Validation for a Large Transport Category Airplane: Pitch, Roll, and Yaw Checkout Cases*. Presentation to AIP Committee, Paris, France, April 7–12, 2019.
- J. O'Callaghan, *Introduction to SimLab (Simulation Laboratory)*. Presentation to AIP Committee, Paris, France, April 7–12, 2019.
- J. O'Callaghan, *Introduction to Runway Performance Analysis Using DANTE*. Presentation to AIP Committee, Paris, France, April 7–12, 2019.
- D. Crider, *Extreme Non-stabilized Approach at Teterboro and On-going Investigations*. Presentation to A4A Simulator Technical Issues Group Spring Meeting, Atlanta, Georgia, April 10, 2019.
- N. Doble, *NTSB Turbulence Safety Study*. Presentation to Aviation Safety InfoShare Meeting, Dallas, Texas, April 16, 2019.
- D. Crider, *Bounced Landing Recovery Training Requirement and Motivation*. Presentation to World Aeronautical Training Symposium, Orlando, Florida, May 1, 2019.
- N. Doble, *NTSB Turbulence Safety Study*. Presentation to Airlines for America Meteorological Committee meeting, Washington, DC, May 7, 2019.
- J. Price, *What Accident Investigation Has Taught Us (And Continues to Teach Us) About Human Factors in Automated Transportation*. Presentation to Human Factors in Control/HFC-E SINTEF [Stiftelsen for Industriell og Teknisk Forskning; the Foundation for Industrial and Technical Research] Meeting, Oslo, Norway, May 7–8, 2019.
- A. Lamm, *Examination of a Failed Helicopter Spindle*. Presentation at Accident Investigators—Materials Meeting, Braunschweig, Germany, May 14–16, 2019.
- E. Mueller, *NTSB Materials Laboratory Update*. Presentation at Accident Investigators—Materials Meeting, Braunschweig, Germany, May 14–16, 2019.
- J. Price, *Investigating Human Fatigue Factors in Transportation Events*. Presentation to Washington Metrorail Safety Commission, Washington, DC, May 20, 2019.
- D. Crider, *Upset Recovery Training: Lessons from Accident Investigations*. Presentation at Upset Recovery Training Summit, Denver, Colorado, May 21, 2019.
- M.P. McKay, *NTSB Accident Investigations: Interactions Among Humans, Machines, and the Environment*. Presentation at UTMB Principles of AeroSpace Medicine Meeting, Galveston, Texas, July 15, 2019.
- C. Babcock, *The NTSB Vehicle Recorder Lab and Use of NVM in Accident Investigations*. Presentation at EAA Airventure 2019, Oshkosh, Wisconsin, July 26, 2019.
- J. O'Callaghan, *Midair Collision Avoidance: Logic vs. Luck*. Presentation at EAA Airventure 2019, Oshkosh, Wisconsin, July 26, 2019.
- I. Cheung, *NTSB Pedestrian Safety Special Investigations*. Presentation at 2019 Texas Statewide Pedestrian Safety Forum, Austin, Texas, August 22, 2019.
- D. Horak, *Analysis of Aviation Accident Videos at NTSB*. Presentation at International Society of Air Safety Investigators Conference, The Hague, Netherlands, September 2–6, 2019.
- G. Kawamoto, *NTSB Overview*. Presentation at Accident Investigator Recorders Meeting, Tokyo, Japan, September 8–14, 2019.
- J. Gregor, *A-200S Chip Level Recovery*. Presentation at Accident Investigator Recorders Meeting, Tokyo, Japan, September 8–14, 2019.
- J. Price, *Using Post-Event Fatigue Investigations to Improve Safety*. Presentation at 24th International Symposium on Shiftwork and Working Time, Coeur d'Alene, Idaho, September 10, 2019.
- E. Emery and M. Fox, *Motorcycle Safety*. Presentation at National Association of State Motorcycle Safety Administrators Summit, Grand Rapids, Michigan, September 12, 2019.
- T. Burtch, *Beech 36 Loss of Control Accident*. Presentation at General Aviation Manufacturers Association's General Aviation Air Safety Investigators Workshop, Arlington, Texas, September 17, 2019.
- M.P. McKay, *NTSB Accident Investigations: Interactions Among Humans, Machines, and the Environment*. Presentation to AAR Medical Standards Subcommittee, Washington, DC, September 19, 2019.
- M. Fox, *Fan Blade Fatigue Fractures in CFM56-7B Engines*. Presentation at 2019 Materials Science and Technology Conference, Portland, Oregon, September 30, 2019.
- D. Kramer, *Failure Analysis of a Second-stage Turbine Disk Rupture*. Presentation at 2019 Materials Science and Technology Conference, Portland, Oregon, September 30, 2019.
- A. Lamm, *Investigation of an Amphibious Duck-Boat Fracture in Seattle, Washington*. Presentation at 2019 Materials Science and Technology Conference, Portland, Oregon, September 30, 2019.
- E. Mueller, *The Unusual Case of a Not-So-Obvious Brake Line Failure and NTSB Recommendations to Prevent Future Transportation Accidents*. Presentation at 2019 Materials Science and Technology Conference, Portland, Oregon, September 30, 2019.
- J. Price, *NTSB's Most Wanted List—Fatigue and Distraction*. Presentation to New Jersey Association of Accident Reconstructionists, Atlantic City, New Jersey, October 8–9, 2019.
- M.P. McKay, *Impaired Driving: A Case Report. Pickup Truck Centerline Crossover Collision with Medium-Size Bus on US Highway 83, Concan, Texas, USA March 29, 2017*, Association for the Advancement of Automotive Medicine Meeting, Madrid, Spain, October 14–19, 2019.
- M.P. McKay, *How ED Physicians and Feds Can Work Together to Promote Transportation Safety*. Presentation at Urgent Matters Injury Prevention Conference, Denver, Colorado, October 26, 2019.
- B. Hsu, *Voyage Data Recorders*. Presentation at INTERPOL [International Criminal Police Organization] Shipborne Forensics Forum, Miami, Florida, November 4–7, 2019.
- S. Payne, *VDR 101 and Case Studies*. Presentation at INTERPOL Shipborne Forensics Forum, Miami, Florida, November 4–7, 2019.

APPENDIX B: Advocacy and Outreach (continued)

- D. Crider, *From the Archives: 1990's Cloud Over the 737*. Presentation at A4A Simulation Group Fall Meeting, Atlanta, Georgia, November 6, 2019.
- S. Payne, *Overview of NTSB Vehicle Recorder Lab and Capabilities*. Presentation at Blue Origin Meeting, Van Horn, Texas, November 21, 2019.
- S. Payne, *Update to Minimum Operating Performance Specifications for Emergency Locator Transmitters*. Presentation at Seafloor Workshop, Athens, Greece, December 4–8, 2019.
- N. Doble, *Aviation Data*. Presentation at Coast Guard Air Station Miami Safety Stand Down, Miami, Florida, December 18, 2019.

Instructional Presentations

- E. Mueller, *Case Studies of Failure Analysis on Transportation Accidents (or How to Use 11 Years of College to Look at Broken Stuff)*, University of Michigan Engineering Department, Ann Arbor, Michigan, November 8, 2019.
- L. Groff, *NTSB Safety Research: Safety of Experimental Amateur-Built Aircraft and Analyzing the NTSB Aviation Database*. Presentation at Embry-Riddle Colloquium, Daytona Beach, Florida, November 25, 2019.

Participation in / Attendance at Meetings and Conferences

- N. Doble, ICAO Safety Indicators Study Group working group meeting, Montreal, Canada, February 4–8, 2019.
- L. Groff, ICAO Safety Indicators Study Group working group meeting, Montreal, Canada, February 4–8, 2019.
- R.G. Smith, Aeronautical Radio Inc. (ARINC) Global Aircraft Tracking working group meeting, Coral Gables, Florida, February 7, 2019.
- C. Cates, Automatic Deployable Flight Recorder (ADFR) Post-Accident Recovery, Handling Procedures, and Data Download working group meeting, Ottawa, Canada, February 13–15, 2019.
- R.G. Smith, ADFR Post-Accident Recovery, Handling Procedures, and Data Download working group meeting, Ottawa, Canada, February 13–15, 2019.
- R.G. Smith, ARINC Global Aircraft Tracking working group meeting, Pretoria/Johannesburg, South Africa, March 30–April 6, 2019.
- M. Moler, AIP Committee working group meeting, Paris, France, April 7–12, 2019.
- L. Groff, ICAO Accident Investigation Panel working group meeting, Montreal, Canada, April 29–May 3, 2019.

- L. Groff, ICAO working group meeting, Montreal, Canada, May 28–31, 2019.
- B. Hsu, Scientific Working Group on Digital Evidence meeting, Denver, Colorado, June 6, 2019.
- R.G. Smith, ARINC Global Aircraft Tracking working group meeting, Toulouse, France, June 15–20, 2019.
- M. Moler, Laser Scanning Plane Crash Test, NASA Langley, Hampton, Virginia, June 22, 2019.
- J. O'Callaghan, Laser Scanning Plane Crash Test, NASA Langley, Hampton, Virginia, June 22, 2019.
- R.G. Smith, ICAO Commercial Aviation Safety Team/ ICAO Common Taxonomy Team, Flight Management Computer (Selected) working group meeting, Austin, Texas, August 22, 2019.
- L. Groff, ICAO Assembly working group meeting, Montreal, Canada, September 23–27, 2019.
- C. Cates and R.G. Smith, Radio Technical Commission for Aeronautics/European Organisation for Civil Aviation Equipment working group meeting, Paris, France, December 14–19, 2019.

Appendix C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5)¹

Aviation: None to Report

Highway: None to Report

Marine: None to Report

Railroad (Employee)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
2	7	MARYLAND / BALTIMORE	Struck by On-Track Equipment	Limited Resources
8	20	TEXAS / JEFFERSON	Caught Between Equipment	Limited Resources
9	6	LOUISIANA / CADDO	Highway–Rail Collision	Limited Resources
9	25	VIRGINIA / MONTGOMERY	Collision / Impact – Auto, Truck, Bus, Van, Other	Limited Resources
11	9	ILLINOIS / COOK	Struck by Falling Object	Limited Resources
12	3	KANSAS / SEDGWICK	Struck by On-Track Equipment	Limited Resources
12	5	NEW YORK / BRONX	Electrical Shock	Limited Resources
12	14	WEST VIRGINIA / WOOD	Derailment	Limited Resources

Railroad (Freight)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
1	6	GEORGIA / JEFFERSON / BARTOW	Derailment	Limited Resources
1	8	NEBRASKA / DOUGLAS / FREMONT	Derailment	Limited Resources
1	9	NEW YORK / RENSSELAER / HOOSICK	Derailment	Limited Resources
1	15	ALASKA / DENALI / CANTWELL	Derailment	Limited Resources
1	28	GEORGIA / FULTON / ATLANTA	Derailment	Limited Resources
1	29	MONTANA / GALLATIN / BOZEMAN	Derailment	Limited Resources
1	30	ILLINOIS / COOK / HARVEY	Derailment	Limited Resources
2	4	WYOMING / PLATTE / WHEATLAND	Rear-End Collision	Limited Resources

¹ 49 U.S.C. 1116(c)(5) "a list of accidents, during the prior calendar year, that the Board was required to investigate under section 1131 but did not investigate and an explanation of why they were not investigated."

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
2	7	NEBRASKA / DODGE / AMES	Derailment	Limited Resources
2	9	NEVADA / LINCOLN / CALIENTE	Derailment	Limited Resources
2	15	MAINE / PENOBSCOT / SEBOEIS	Derailment	Limited Resources
2	16	MINNESOTA / ST LOUIS / BROOKSTON	Derailment	Limited Resources
2	21	SOUTH DAKOTA / HAND / WESSINGTON	Derailment	Limited Resources
2	25	SOUTH DAKOTA / GRANT / MILBANK	Highway-Rail Impact	Limited Resources
3	2	NORTH DAKOTA / FOSTER / CARRINGTON	Derailment	Limited Resources
3	3	NEBRASKA / GARDEN / OSHKOSH	Derailment	Limited Resources
3	11	IOWA / LEE / KEOKUK	Derailment	Limited Resources
3	13	NEW MEXICO / QUAY / LOGAN	Derailment	Limited Resources
3	14	WASHINGTON / ADAMS / RITZVILLE	Derailment	Limited Resources
3	15	MINNESOTA / LE SUEUR / LE SUEUR	Derailment	Limited Resources
3	30	UTAH / JUAB / EUREKA	Derailment	Limited Resources
4	3	TEXAS / PARKER / WEATHERFORD	Derailment	Limited Resources
4	6	VIRGINIA / WYTHE / RURAL RETREAT	Derailment	Limited Resources
4	9	LOUISIANA / CADDO / SHREVEPORT	Highway-Rail Impact	Limited Resources
5	6	ALABAMA / JACKSON / WOODVILLE	Derailment	Limited Resources
5	7	LOUISIANA / CADDO / SHREVEPORT	Highway-Rail Impact	Limited Resources
5	11	MISSISSIPPI / PEARL RIVER / LUMBERTON	Derailment	Limited Resources
5	19	TEXAS / ANDERSON / ELKHART	Derailment	Limited Resources
5	28	OHIO / HURON / NEW LONDON	Derailment	Limited Resources
6	2	WYOMING / CONVERSE / BILL	Derailment	Limited Resources
6	6	IOWA / CEDAR / STANWOOD	Derailment	Limited Resources
6	6	OHIO / FULTON / SWANTON	Obstruction Impact	Limited Resources
6	14	ILLINOIS / MONROE / FULTS	Highway-Rail Impact	Limited Resources
6	19	NEVADA / ELKO / WELLS	Derailment	Limited Resources
6	19	IOWA / TAMA / BELLE PLAINE	Derailment	Limited Resources
6	25	VIRGINIA / CHESAPEAKE / CHESAPEAKE	Derailment	Limited Resources
6	28	NEBRASKA / JEFFERSON / ALEXANDRIA	Derailment	Limited Resources
7	1	WISCONSIN / GRANT / GLEN HAVEN	Obstruction Impact	Limited Resources
7	9	NEBRASKA / NUCKOLLS / SUPERIOR	Derailment	Limited Resources
7	10	NEVADA / LINCOLN / ELGIN	Derailment	Limited Resources
7	19	SOUTH CAROLINA / DORCHESTER / RIDGEVILLE	Derailment	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
7	25	MISSOURI / MERCER / MERCER	Derailment	Limited Resources
7	31	IOWA / SIOUX / HULL	Derailment	Limited Resources
8	2	SOUTH DAKOTA / PENNINGTON / NEW UNDERWOOD	Derailment	Limited Resources
8	14	COLORADO / EL PASO / COLORADO SPRINGS	Derailment	Limited Resources
8	18	KANSAS / HARVEY / WALTON	Derailment	Limited Resources
8	19	TEXAS / HILL / HILLSBORO	Derailment	Limited Resources
8	19	MISSOURI / JACKSON / INDEPENDENCE	Derailment	Limited Resources
10	7	CALIFORNIA / KERN / KEENE	Derailment	Limited Resources
10	9	GEORGIA / HOUSTON / ELKO	Derailment	Limited Resources
10	11	NEBRASKA / SHERIDAN / LAKESIDE	Rear-End Collision	Limited Resources
10	14	ARIZONA / COCONINO / FLAGSTAFF	Derailment	Limited Resources
10	21	TEXAS / NOLAN / SWEETWATER	Derailment	Limited Resources
11	8	PENNSYLVANIA / WESTMORELAND / BOVARD	Rear-End Collision	Limited Resources
11	13	IOWA / MONTGOMERY / RED OAK	Derailment	Limited Resources
11	30	NEW MEXICO / DE BACA / FORT SUMNER	Derailment	Limited Resources
12	15	IOWA / WORTH / MANLY	Derailment	Limited Resources
12	26	WYOMING / CARBON / HANNA	Derailment	Limited Resources

➤ Railroad (Passenger)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
1	1	FLORIDA / PALM BEACH / LANTANA	Highway–Rail Impact	Limited Resources
1	3	NEW YORK / SUFFOLK / QUOGUE	Highway–Rail Impact	Limited Resources
1	4	NEW YORK / BRONX / BRONX	Derailment	Limited Resources
1	6	ILLINOIS / COOK / CHICAGO	Other Event	Limited Resources
1	7	NEW YORK / SUFFOLK / SMITHTOWN	Other Event	Limited Resources
1	11	NEW YORK / BRONX / BRONX	Other Event	Limited Resources
1	13	NORTH CAROLINA / HALIFAX / ENFIELD	Obstruction Impact	Limited Resources
1	17	MASSACHUSETTS / MIDDLESEX / SOMERVILLE	Derailment	Limited Resources
1	18	FLORIDA / ORANGE / TAFT	Obstruction Impact	Limited Resources
1	19	MISSISSIPPI / LINCOLN / BROOKHAVEN	Obstruction Impact	Limited Resources
1	21	INDIANA / LAKE / GARY	Highway–Rail Impact	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
1	23	FLORIDA / BROWARD / OAKLAND PARK	Highway–Rail Impact	Limited Resources
1	23	NEW YORK / NEW YORK / NEW YORK	Other Event	Limited Resources
1	25	MICHIGAN / BERRIEN / THREE OAKS	Highway–Rail Impact	Limited Resources
1	26	NEW YORK / WESTCHESTER / MOUNT VERNON	Obstruction Impact	Limited Resources
1	26	LOUISIANA / JEFFERSON / KENNER	Highway–Rail Impact	Limited Resources
1	30	INDIANA / LAKE / HAMMOND	Other Impacts	Limited Resources
1	30	COLORADO / DENVER / DENVER	Fire / Violent Rupture	Limited Resources
1	30	PENNSYLVANIA / PHILADELPHIA / PHILADELPHIA	Derailment	Limited Resources
1	30	PENNSYLVANIA / CHESTER / STRAFFORD	Obstruction Impact	Limited Resources
2	3	NEW HAMPSHIRE / SULLIVAN / CHARLESTOWN	Obstruction Impact	Limited Resources
2	7	MASSACHUSETTS / SUFFOLK / BOSTON	Other Event	Limited Resources
2	12	KANSAS / MARION / PEABODY	Highway–Rail Impact	Limited Resources
2	13	CALIFORNIA / SANTA BARBARA / GOLETA	Obstruction Impact	Limited Resources
2	13	CALIFORNIA / ALAMEDA / EMERYVILLE	Highway–Rail Impact	Limited Resources
2	19	CONNECTICUT / NEW HAVEN / NEW HAVEN	Derailment	Limited Resources
2	23	INDIANA / HENDRICKS / BROWNSBURG	Highway–Rail Impact	Limited Resources
2	24	MICHIGAN / KALAMAZOO / KALAMAZOO	Highway–Rail Impact	Limited Resources
2	26	ILLINOIS / COOK / CHICAGO	Highway–Rail Impact	Limited Resources
3	3	VIRGINIA / FAUQUIER / REMINGTON	Highway–Rail Impact	Limited Resources
3	5	NEW YORK / DUTCHESS / RHINECLIFF	Other Event	Limited Resources
3	7	FLORIDA / BROWARD / HOLLYWOOD	Highway–Rail Impact	Limited Resources
3	11	NEW JERSEY / HUDSON / KEARNY	Other Event	Limited Resources
3	13	CALIFORNIA / SANTA BARBARA / CARPINTERIA	Obstruction Impact	Limited Resources
3	14	ILLINOIS / COOK / CHICAGO	Derailment	Limited Resources
3	18	FLORIDA / PALM BEACH / LAKE WORTH	Highway–Rail Impact	Limited Resources
3	20	FLORIDA / MIAMI-DADE / MIAMI-DADE	Highway–Rail Impact	Limited Resources
3	24	FLORIDA / BROWARD / POMPANO BEACH	Highway–Rail Impact	Limited Resources
3	25	MARYLAND / PRINCE GEORGE'S / BOWIE	Obstruction Impact	Limited Resources
3	30	FLORIDA / DADE / HIALEAH	Derailment	Limited Resources
4	2	FLORIDA / BROWARD / POMPANO BEACH	Highway–Rail Impact	Limited Resources
4	4	ILLINOIS / LA SALLE / MENDOTA	Fire/violent rupture	Limited Resources
4	7	TEXAS / EL PASO / CLINT	Highway–Rail Impact	Limited Resources
4	11	FLORIDA / DADE / HIALEAH	Other Event	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
4	11	FLORIDA / VOLUSIA / SEVILLE	Highway–Rail Impact	Limited Resources
4	11	MISSISSIPPI / COPIAH / WESSON	Highway–Rail Impact	Limited Resources
4	12	FLORIDA / BROWARD / POMPANO BEACH	Other Event	Limited Resources
4	13	PENNSYLVANIA/ PHILADELPHIA / PHILADELPHIA	Other Event	Limited Resources
4	21	CALIFORNIA/ ALAMEDA / FREMONT	Other Event	Limited Resources
4	21	MICHIGAN/ CASS / DOWAGIAC	Fire / Violent Rupture	Limited Resources
4	24	CALIFORNIA / SANTA CLARA / SAN JOSE	Obstruction Impact	Limited Resources
4	25	TEXAS / BELL / HOLLAND	Highway–Rail Impact	Limited Resources
4	30	DELAWARE / NEW CASTLE / WILMINGTON	Other Event	Limited Resources
5	13	CALIFORNIA / SANTA CLARA / SAN JOSE	Derailment	Limited Resources
5	17	PENNSYLVANIA / BUCKS / CROYDON	Other Event	Limited Resources
5	18	FLORIDA / PALM BEACH / LAKE WORTH	Other Event	Limited Resources
5	24	MISSISSIPPI / YAZOO / TINSLEY	Highway–Rail Impact	Limited Resources
5	25	NEW YORK / SUFFOLK / SPEONK	Side Collision	Limited Resources
6	3	FLORIDA / PALM BEACH / BOYNTON BEACH	Other Event	Limited Resources
6	5	FLORIDA / MIAMI-DADE / MIAMI-DADE	Highway–Rail Impact	Limited Resources
6	7	FLORIDA / PALM BEACH / BOCA RATON	Highway–Rail Impact	Limited Resources
6	25	FLORIDA / PALM BEACH / LANTANA	Highway–Rail Impact	Limited Resources
6	26	ILLINOIS / COOK / BLUE ISLAND	Derailment	Limited Resources
7	6	NEW HAMPSHIRE / SULLIVAN / CHARLESTOWN	Obstruction Impact	Limited Resources
7	7	NEW YORK / WAYNE / CLYDE	Obstruction Impact	Limited Resources
7	14	VERMONT/ WINDHAM / BRATTLEBORO	Obstruction Impact	Limited Resources
7	16	MARYLAND/ HARFORD / EDGEWOOD	Other Event	Limited Resources
7	17	VIRGINIA / FAIRFAX / BURKE	Obstruction Impact	Limited Resources
7	19	VIRGINIA / CLIFTON FORGE / CLIFTON FORGE	Fire / Violent Rupture	Limited Resources
7	22	MISSISSIPPI / LAUDERDALE / MERIDIAN	Highway–Rail Impact	Limited Resources
7	27	FLORIDA / MIAMI-DADE / MIAMI-DADE	Other Event	Limited Resources
7	28	ILLINOIS / WILL / UNIVERSITY PARK	Highway–Rail Impact	Limited Resources
7	29	CALIFORNIA/ MADERA / MADERA	Obstruction Impact	Limited Resources
8	2	TEXAS/ GUADALUPE / MARION	Highway–Rail Impact	Limited Resources
8	4	NEBRASKA / KEARNEY / MINDEN	Obstruction Impact	Limited Resources
8	4	NEW YORK / NEW YORK / NEW YORK	Other Event	Limited Resources
8	6	FLORIDA / PALM BEACH / LANTANA	Highway–Rail Impact	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
8	8	FLORIDA / PALM BEACH / BOYNTON BEACH	Highway–Rail Impact	Limited Resources
8	11	FLORIDA / DUVAL / JACKSONVILLE	Highway–Rail Impact	Limited Resources
8	16	MISSISSIPPI / HINDS / TERRY	Highway–Rail Impact	Limited Resources
8	19	MISSOURI/ WASHINGTON / MINERAL POINT	Highway–Rail Impact	Limited Resources
8	19	INDIANA / LAKE / GARY	Other Event	Limited Resources
8	22	NEW JERSEY/ MERCER / TRENTON	Other Event	Limited Resources
8	25	FLORIDA / BROWARD / DEERFIELD BEACH	Highway–Rail Impact	Limited Resources
8	30	TEXAS/ LIBERTY / DAYTON	Highway–Rail Impact	Limited Resources
8	30	ILLINOIS / COOK / CHICAGO	Other Event	Limited Resources
9	6	FLORIDA / PALM BEACH / WEST PALM BEACH	Highway–Rail Impact	Limited Resources
9	8	MISSOURI / FRANKLIN / WASHINGTON	Obstruction Impact	Limited Resources
9	12	FLORIDA / BROWARD / OAKLAND PARK	Highway–Rail Impact	Limited Resources
9	12	NEW JERSEY / MERCER / TRENTON	Other Event	Limited Resources
9	13	NEW MEXICO / CIBOLA / LAGUNA	Obstruction Impact	Limited Resources
9	15	NEW JERSEY / MERCER / PRINCETON JUNCTION	Other Event	Limited Resources
9	16	CALIFORNIA / YOLO / DAVIS	Highway–Rail Impact	Limited Resources
9	20	IDAHO / KOOTENAI / ATHOL	Highway–Rail Impact	Limited Resources
9	25	CONNECTICUT / FAIRFIELD / STAMFORD	Other Event	Limited Resources
10	1	CALIFORNIA / SANTA CLARA / SAN JOSE	Highway–Rail Impact	Limited Resources
10	6	FLORIDA / POLK / LAKELAND	Highway–Rail Impact	Limited Resources
10	16	INDIANA / LA PORTE / MICHIGAN CITY	Highway–Rail Impact	Limited Resources
10	17	MASSACHUSETTS / PLYMOUTH / SCITUATE	Other Impact	Limited Resources
10	20	ILLINOIS / COOK / CHICAGO	Derailment	Limited Resources
10	24	ILLINOIS / COOK / CHICAGO	Other Impact	Limited Resources
10	25	FLORIDA / BROWARD / FORT LAUDERDALE	Highway–Rail Impact	Limited Resources
10	28	CALIFORNIA / CONTRA COSTA / RICHMOND	Highway–Rail Impact	Limited Resources
10	28	NEW JERSEY / HUDSON / HARRISON	Derailment	Limited Resources
11	2	KANSAS/ JOHNSON / SHAWNEE	Obstruction Impact	Limited Resources
11	12	FLORIDA / MIAMI-DADE / NORTH MIAMI BEACH	Highway–Rail Impact	Limited Resources
11	13	CALIFORNIA / MONTEREY / CASTROVILLE	Highway–Rail Impact	Limited Resources
11	13	GEORGIA / BRANTLEY / HORTENSE	Highway–Rail Impact	Limited Resources
11	15	FLORIDA / MIAMI-DADE / NORTH MIAMI BEACH	Highway–Rail Impact	Limited Resources
11	20	NEW JERSEY / MERCER / PRINCETON	Obstruction Impact	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
11	21	NEW YORK / COLUMBIA / GERMANTOWN	Obstruction Impact	Limited Resources
11	27	ILLINOIS / MACOUPIN / NILWOOD	Obstruction Impact	Limited Resources
11	27	MICHIGAN / JACKSON / SANDSTONE	Obstruction Impact	Limited Resources
12	1	NEW YORK / QUEENS / LONG ISLAND CITY	Other Event	Limited Resources
12	6	ILLINOIS / COOK / CHICAGO	Obstruction Impact	Limited Resources
12	17	TEXAS / LIBERTY / DAYTON	Highway–Rail Impact	Limited Resources
12	19	MISSISSIPPI / PANOLA / BATESVILLE	Derailment	Limited Resources
12	27	ILLINOIS / WILL / ROMEOVILLE	Highway–Rail Impact	Limited Resources
12	30	NEW HAMPSHIRE / SULLIVAN / CLAREMONT	Obstruction Impact	Limited Resources
12	31	SOUTH CAROLINA / SPARTANBURG / ARCADIA	Highway–Rail Impact	Limited Resources

➤ Railroad (Trespasser)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
1	1	FLORIDA / BROWARD	Struck by On-Track Equipment	Limited Resources
1	1	OREGON / UMATILLA	Struck by On-Track Equipment	Limited Resources
1	2	UTAH / UTAH	Highway–Rail Collision / Impact	Limited Resources
1	2	FLORIDA / POLK	Struck by On-Track Equipment	Limited Resources
1	3	CALIFORNIA / LOS ANGELES	Struck by On-Track Equipment	Limited Resources
1	4	NEW JERSEY / UNION	Struck by On-Track Equipment	Limited Resources
1	4	ARIZONA / PIMA	Highway–Rail Collision / Impact	Limited Resources
1	5	CALIFORNIA / SANTA BARBARA	Assaulted by Other	Limited Resources
1	6	ARIZONA / NAVAJO	Struck by On-Track Equipment	Limited Resources
1	6	KENTUCKY / MADISON	Struck by On-Track Equipment	Limited Resources
1	7	RHODE ISLAND / PROVIDENCE	Other	Limited Resources
1	8	TEXAS / MIDLAND	Apprehending / Removing from Property	Limited Resources
1	10	CALIFORNIA / STANISLAUS	Highway–Rail Collision / Impact	Limited Resources
1	11	CALIFORNIA / SAN MATEO	Other	Limited Resources
1	14	FLORIDA / MIAMI-DADE	Struck by On-Track Equipment	Limited Resources
1	14	CALIFORNIA / SAN JOAQUIN	Assaulted by Other	Limited Resources
1	14	WASHINGTON / SKAGIT	Struck by On-Track Equipment	Limited Resources
1	14	NEW JERSEY / PASSAIC	Highway–Rail Collision / Impact	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
1	17	FLORIDA / PALM BEACH	Struck by On-Track Equipment	Limited Resources
1	17	ILLINOIS / DU PAGE	Struck by On-Track Equipment	Limited Resources
1	19	MICHIGAN / WAYNE	Highway–Rail Collision / Impact	Limited Resources
1	20	NORTH CAROLINA / JOHNSTON	Struck by On-Track Equipment	Limited Resources
1	21	VIRGINIA / ROANOKE CITY	Slipped / Fell / Stumbled	Limited Resources
1	23	TEXAS / GALVESTON	Struck by On-Track Equipment	Limited Resources
1	23	TEXAS / DENTON	Struck by On-Track Equipment	Limited Resources
1	23	PENNSYLVANIA / DELAWARE	Struck by On-Track Equipment	Limited Resources
1	23	FLORIDA / BROWARD	Highway–Rail Collision / Impact	Limited Resources
1	23	CALIFORNIA / FRESNO	Ran into On-Track Equipment	Limited Resources
1	23	IOWA / WAPELLO	Struck by On-Track Equipment	Limited Resources
1	24	CALIFORNIA / VENTURA	Highway–Rail Collision / Impact	Limited Resources
1	24	CALIFORNIA / FRESNO	Struck by On-Track Equipment	Limited Resources
1	25	NORTH CAROLINA / GASTON	Struck by On-Track Equipment	Limited Resources
1	26	TEXAS / JEFFERSON	Struck by On-Track Equipment	Limited Resources
1	26	CALIFORNIA / PLACER	Struck by On-Track Equipment	Limited Resources
1	26	NEW YORK / BRONX	Committing Vandalism / Theft	Limited Resources
1	27	GEORGIA / CLARKE	Struck by On-Track Equipment	Limited Resources
1	28	KENTUCKY / CAMPBELL	Highway–Rail Collision / Impact	Limited Resources
1	29	FLORIDA / PALM BEACH	Highway–Rail Collision / Impact	Limited Resources
1	29	CALIFORNIA / ORANGE	Struck by On-Track Equipment	Limited Resources
1	30	CALIFORNIA / LOS ANGELES	Struck Object	Limited Resources
1	30	CALIFORNIA / SAN MATEO	Highway–Rail Collision / Impact	Limited Resources
1	31	CALIFORNIA / LOS ANGELES	Struck by On-Track Equipment	Limited Resources
2	1	ILLINOIS / LAKE	Struck by On-Track Equipment	Limited Resources
2	2	PENNSYLVANIA / BEAVER	Collision / Impact – Auto, Truck, Bus, Van, Other	Limited Resources
2	3	NEW JERSEY / MERCER	Struck by On-Track Equipment	Limited Resources
2	3	COLORADO / BOULDER	Highway–Rail Collision / Impact	Limited Resources
2	5	TEXAS / TARRANT	Struck by On-Track Equipment	Limited Resources
2	5	CALIFORNIA / SAN LUIS OBISPO	Struck by On-Track Equipment	Limited Resources
2	5	MASSACHUSETTS / NORFOLK	Struck by On-Track Equipment	Limited Resources
2	5	COLORADO / MORGAN	Struck by On-Track Equipment	Limited Resources
2	6	COLORADO / DENVER	Struck by On-Track Equipment	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
2	6	ALABAMA / ESCAMBIA	Highway–Rail Collision / Impact	Limited Resources
2	6	CALIFORNIA / ORANGE	Struck by On-Track Equipment	Limited Resources
2	7	UTAH / SALT LAKE	Struck by On-Track Equipment	Limited Resources
2	7	CALIFORNIA / LOS ANGELES	Highway–Rail Collision / Impact	Limited Resources
2	8	LOUISIANA / ORLEANS	Struck by Object	Limited Resources
2	8	CALIFORNIA / SAN BERNARDINO	Ran into Object / Equipment	Limited Resources
2	9	TEXAS / HARRIS	Struck by On-Track Equipment	Limited Resources
2	9	CALIFORNIA / MERCED	Highway–Rail Collision / Impact	Limited Resources
2	10	UTAH / BEAVER	Lost Balance	Limited Resources
2	10	CALIFORNIA / YUBA	Struck by On-Track Equipment	Limited Resources
2	11	OKLAHOMA / CLEVELAND	Struck by On-Track Equipment	Limited Resources
2	11	OREGON / MULTNOMAH	Struck by On-Track Equipment	Limited Resources
2	11	ILLINOIS / DU PAGE	Struck by On-Track Equipment	Limited Resources
2	13	ILLINOIS / SANGAMON	Struck by On-Track Equipment	Limited Resources
2	13	FLORIDA / PALM BEACH	Struck by On-Track Equipment	Limited Resources
2	14	NORTH CAROLINA / WAKE	Struck by On-Track Equipment	Limited Resources
2	14	NORTH CAROLINA / CABARRUS	Struck by On-Track Equipment	Limited Resources
2	14	CALIFORNIA / KINGS	Highway–Rail Collision / Impact	Limited Resources
2	14	CALIFORNIA / ORANGE	Slipped / Fell / Stumbled	Limited Resources
2	14	ILLINOIS / WILL	Highway–Rail Collision / Impact	Limited Resources
2	15	TEXAS / DALLAS	Struck by On-Track Equipment	Limited Resources
2	15	CALIFORNIA / ORANGE	Highway–Rail Collision / Impact	Limited Resources
2	16	SOUTH CAROLINA / SUMTER	Other	Limited Resources
2	16	FLORIDA / PALM BEACH	Struck by On-Track Equipment	Limited Resources
2	17	OHIO / STARK	Struck by On-Track Equipment	Limited Resources
2	18	CALIFORNIA / SAN BERNARDINO	Struck by On-Track Equipment	Limited Resources
2	18	VIRGINIA / CHESTERFIELD	Struck by On-Track Equipment	Limited Resources
2	18	WISCONSIN / WAUKESHA	Highway–Rail Collision / Impact	Limited Resources
2	18	FLORIDA / ORANGE	Struck by On-Track Equipment	Limited Resources
2	20	WASHINGTON / PIERCE	Struck by On-Track Equipment	Limited Resources
2	21	TEXAS / DALLAS	Struck by On-Track Equipment	Limited Resources
2	22	ARIZONA / PINAL	Struck by Object	Limited Resources
2	22	ILLINOIS / COOK	Struck by On-Track Equipment	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
2	23	INDIANA / HENDRICKS	Highway–Rail Collision / Impact	Limited Resources
2	23	MICHIGAN / OAKLAND	Highway–Rail Collision / Impact	Limited Resources
2	24	MICHIGAN / KALAMAZOO	Highway–Rail Collision / Impact	Limited Resources
2	24	VIRGINIA / ROCKINGHAM	Struck by On-Track Equipment	Limited Resources
2	24	MARYLAND / PRINCE GEORGE'S	Struck by On-Track Equipment	Limited Resources
2	25	NEBRASKA / SCOTTS BLUFF	Highway–Rail Collision / Impact	Limited Resources
2	26	NEW YORK / NASSAU	Highway–Rail Collision / Impact	Limited Resources
2	26	VIRGINIA / PRINCE GEORGE	Struck by On-Track Equipment	Limited Resources
2	28	CALIFORNIA / SANTA CLARA	Struck by On-Track Equipment	Limited Resources
2	28	FLORIDA / ORANGE	Highway–Rail Collision / Impact	Limited Resources
3	1	OREGON / UNION	Slipped / Fell / Stumbled	Limited Resources
3	2	CALIFORNIA / LOS ANGELES	Struck by On-Track Equipment	Limited Resources
3	2	GEORGIA / PAULDING	Highway–Rail Collision / Impact	Limited Resources
3	3	NORTH CAROLINA / NEW HANOVER	Other	Limited Resources
3	4	INDIANA / DELAWARE	Highway–Rail Collision / Impact	Limited Resources
3	5	NORTH CAROLINA / UNION	Struck by On-Track Equipment	Limited Resources
3	5	SOUTH CAROLINA / CHARLESTON	Other	Limited Resources
3	5	OREGON / MULTNOMAH	Caught / Crushed / Pinched / Other	Limited Resources
3	5	MISSISSIPPI / FORREST	Struck by On-Track Equipment	Limited Resources
3	6	CALIFORNIA / KERN	Struck by On-Track Equipment	Limited Resources
3	7	CALIFORNIA / ALAMEDA	Slipped / Fell / Stumbled	Limited Resources
3	7	TENNESSEE / HAMILTON	Struck by On-Track Equipment	Limited Resources
3	7	FLORIDA / BROWARD	Highway–Rail Collision / Impact	Limited Resources
3	8	WISCONSIN / WASHINGTON	Struck by On-Track Equipment	Limited Resources
3	8	MICHIGAN / MACOMB	Struck by On-Track Equipment	Limited Resources
3	9	PENNSYLVANIA / DELAWARE	Struck by On-Track Equipment	Limited Resources
3	10	FLORIDA / HILLSBOROUGH	Struck by On-Track Equipment	Limited Resources
3	12	COLORADO / MESA	Burned	Limited Resources
3	12	MISSOURI / BARTON	Struck by On-Track Equipment	Limited Resources
3	13	OHIO / ERIE	Highway–Rail Collision / Impact	Limited Resources
3	13	CALIFORNIA / LOS ANGELES	Struck by On-Track Equipment	Limited Resources
3	14	VIRGINIA / ORANGE	Struck by On-Track Equipment	Limited Resources
3	14	WASHINGTON / YAKIMA	Struck by On-Track Equipment	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
3	14	TEXAS / LAMPASAS	Struck by On-Track Equipment	Limited Resources
3	15	TEXAS / TRAVIS	Struck by On-Track Equipment	Limited Resources
3	16	MASSACHUSETTS / ESSEX	Struck by On-Track Equipment	Limited Resources
3	18	TEXAS / DENTON	Highway–Rail Collision / Impact	Limited Resources
3	19	CALIFORNIA / SACRAMENTO	Struck by On-Track Equipment	Limited Resources
3	20	FLORIDA / MIAMI-DADE	Highway–Rail Collision / Impact	Limited Resources
3	20	CALIFORNIA / LOS ANGELES	Struck by On-Track Equipment	Limited Resources
3	20	CALIFORNIA / SOLANO	Struck by On-Track Equipment	Limited Resources
3	21	CALIFORNIA / VENTURA	Struck by On-Track Equipment	Limited Resources
3	21	SOUTH CAROLINA / LEXINGTON	Struck by On-Track Equipment	Limited Resources
3	22	OREGON / CLACKAMAS	Other	Limited Resources
3	22	PENNSYLVANIA / PHILADELPHIA	Other	Limited Resources
3	24	CALIFORNIA / SAN JOAQUIN	Highway–Rail Collision / Impact	Limited Resources
3	25	OHIO / DELAWARE	Highway–Rail Collision / Impact	Limited Resources
3	25	MASSACHUSETTS / HAMPDEN	Struck by On-Track Equipment	Limited Resources
3	26	TEXAS / EL PASO	Struck by On-Track Equipment	Limited Resources
3	26	FLORIDA / ST LUCIE	Struck by On-Track Equipment	Limited Resources
3	26	NEW YORK / COLUMBIA	Struck by On-Track Equipment	Limited Resources
3	26	WASHINGTON / WHATCOM	Highway–Rail Collision / Impact	Limited Resources
3	26	OKLAHOMA / MUSKOGEE	Slipped / Fell / Stumbled	Limited Resources
3	27	CALIFORNIA / SACRAMENTO	Struck by On-Track Equipment	Limited Resources
3	27	CALIFORNIA / LOS ANGELES	Struck by On-Track Equipment	Limited Resources
3	28	OHIO / SUMMIT	Struck by On-Track Equipment	Limited Resources
3	29	ILLINOIS / COOK	Highway–Rail Collision / Impact	Limited Resources
3	29	PENNSYLVANIA / LEHIGH	Struck by On-Track Equipment	Limited Resources
3	29	CALIFORNIA / SAN MATEO	Other	Limited Resources
3	30	KENTUCKY / JEFFERSON	Struck by On-Track Equipment	Limited Resources
3	30	TEXAS / COOKE	Highway–Rail Collision / Impact	Limited Resources
3	30	PENNSYLVANIA / MIFFLIN	Struck by On-Track Equipment	Limited Resources
3	30	OREGON / MULTNOMAH	Slipped / Fell / Stumbled	Limited Resources
3	31	VIRGINIA / AUGUSTA	Struck by On-Track Equipment	Limited Resources
3	31	VIRGINIA / ALBEMARLE	Struck by On-Track Equipment	Limited Resources
4	1	ILLINOIS / DU PAGE	Struck by On-Track Equipment	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
4	1	MARYLAND / PRINCE GEORGE'S	Struck by On-Track Equipment	Limited Resources
4	1	NEW YORK / WESTCHESTER	Struck by On-Track Equipment	Limited Resources
4	3	TENNESSEE / DAVIDSON	Struck by On-Track Equipment	Limited Resources
4	3	CALIFORNIA / LOS ANGELES	Struck by On-Track Equipment	Limited Resources
4	3	CALIFORNIA / SOLANO	Struck by On-Track Equipment	Limited Resources
4	3	FLORIDA / ST JOHNS	Struck by On-Track Equipment	Limited Resources
4	3	GEORGIA / WARE	Highway–Rail Collision / Impact	Limited Resources
4	3	PENNSYLVANIA / ALLEGHENY	Struck by On-Track Equipment	Limited Resources
4	4	TEXAS / JIM WELLS	Highway–Rail Collision / Impact	Limited Resources
4	4	CALIFORNIA / RIVERSIDE	Struck by On-Track Equipment	Limited Resources
4	6	TEXAS / BELL	Struck by On-Track Equipment	Limited Resources
4	6	MASSACHUSETTS / MIDDLESEX	Struck by On-Track Equipment	Limited Resources
4	7	KENTUCKY / WEBSTER	Highway–Rail Collision / Impact	Limited Resources
4	7	OREGON / MARION	Struck by On-Track Equipment	Limited Resources
4	8	PENNSYLVANIA / DELAWARE	Highway–Rail Collision / Impact	Limited Resources
4	8	INDIANA / KOSCIUSKO	Highway–Rail Collision / Impact	Limited Resources
4	8	PENNSYLVANIA / DELAWARE	Struck by On-Track Equipment	Limited Resources
4	9	FLORIDA / HIGHLANDS	Struck by On-Track Equipment	Limited Resources
4	9	ILLINOIS / OGLE	Struck by On-Track Equipment	Limited Resources
4	10	CALIFORNIA / SAN MATEO	Other	Limited Resources
4	10	MONTANA / BIG HORN	Struck by On-Track Equipment	Limited Resources
4	10	INDIANA / LAKE	Other Impacts – On-track Equipment	Limited Resources
4	11	CALIFORNIA / SACRAMENTO	Struck by On-Track Equipment	Limited Resources
4	12	FLORIDA / BROWARD	Struck by On-Track Equipment	Limited Resources
4	12	ARIZONA / MARICOPA	Struck by On-Track Equipment	Limited Resources
4	12	INDIANA / MARION	Other	Limited Resources
4	12	TEXAS / BEXAR	Struck by On-Track Equipment	Limited Resources
4	14	NEBRASKA / BUFFALO	Struck by On-Track Equipment	Limited Resources
4	14	ILLINOIS / WILL	Struck by On-Track Equipment	Limited Resources
4	15	UTAH / DAVIS	Highway–Rail Collision / Impact	Limited Resources
4	15	OKLAHOMA / PITTSBURG	Struck by On-Track Equipment	Limited Resources
4	16	GEORGIA / BARROW	Struck by On-Track Equipment	Limited Resources
4	16	CALIFORNIA / SAN DIEGO	Struck by On-Track Equipment	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
4	17	NORTH CAROLINA / GUILFORD	Struck by On-Track Equipment	Limited Resources
4	17	CALIFORNIA / SAN JOAQUIN	Struck by On-Track Equipment	Limited Resources
4	17	NORTH CAROLINA / MECKLENBURG	Struck by On-Track Equipment	Limited Resources
4	17	ALABAMA / JACKSON	Struck by On-Track Equipment	Limited Resources
4	18	CALIFORNIA / TULARE	Struck by On-Track Equipment	Limited Resources
4	18	TENNESSEE / FAYETTE	Slipped / Fell / Stumbled	Limited Resources
4	18	UTAH / UTAH	Highway–Rail Collision / Impact	Limited Resources
4	18	MARYLAND / BALTIMORE CITY	Struck by On-Track Equipment	Limited Resources
4	20	TEXAS / FRIO	Struck by On-Track Equipment	Limited Resources
4	20	MISSISSIPPI / ALCORN	Slipped / Fell / Stumbled	Limited Resources
4	20	ILLINOIS / SANGAMON	Struck by On-Track Equipment	Limited Resources
4	21	MAINE / YORK	Struck by On-Track Equipment	Limited Resources
4	21	GEORGIA / DE KALB	Struck by On-Track Equipment	Limited Resources
4	22	MONTANA / GLACIER	Highway–Rail Collision / Impact	Limited Resources
4	22	CALIFORNIA / SANTA CLARA	Other	Limited Resources
4	22	ILLINOIS / COOK	Highway–Rail Collision / Impact	Limited Resources
4	23	CALIFORNIA / BUTTE	Slipped / Fell / Stumbled	Limited Resources
4	23	CALIFORNIA / SAN DIEGO	Struck by On-Track Equipment	Limited Resources
4	23	FLORIDA / PALM BEACH	Struck by On-Track Equipment	Limited Resources
4	23	CALIFORNIA / CONTRA COSTA	Struck by On-Track Equipment	Limited Resources
4	23	OHIO / WARREN	Struck by On-Track Equipment	Limited Resources
4	24	IOWA / CRAWFORD	Struck by On-Track Equipment	Limited Resources
4	25	MARYLAND / HARFORD	Struck by On-Track Equipment	Limited Resources
4	25	NORTH DAKOTA / CASS	Struck by On-Track Equipment	Limited Resources
4	25	GEORGIA / CRISP	Struck by On-Track Equipment	Limited Resources
4	26	IOWA / JOHNSON	Struck by On-Track Equipment	Limited Resources
4	27	CALIFORNIA / VENTURA	Struck by On-Track Equipment	Limited Resources
4	27	ARIZONA / MARICOPA	Struck by On-Track Equipment	Limited Resources
4	27	CALIFORNIA / LOS ANGELES	Struck by On-Track Equipment	Limited Resources
4	28	WISCONSIN / WAUKESHA	Struck by On-Track Equipment	Limited Resources
4	28	ALABAMA / MOBILE	Struck by On-Track Equipment	Limited Resources
4	29	CALIFORNIA / SHASTA	Highway–Rail Collision / Impact	Limited Resources
4	29	TEXAS / BEXAR	Struck by On-Track Equipment	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
4	30	TEXAS / MAVERICK	Slipped / Fell / Stumbled	Limited Resources
4	30	PENNSYLVANIA / CUMBERLAND	Struck by On-Track Equipment	Limited Resources
4	30	NEVADA / PERSHING	Struck by On-Track Equipment	Limited Resources
5	1	CALIFORNIA / MONTEREY	Struck by On-Track Equipment	Limited Resources
5	1	VIRGINIA / AUGUSTA	Struck by On-Track Equipment	Limited Resources
5	1	CALIFORNIA / ORANGE	Struck by On-Track Equipment	Limited Resources
5	1	LOUISIANA / EAST BATON ROUGE	Struck by On-Track Equipment	Limited Resources
5	1	NEW YORK / BRONX	Struck by On-Track Equipment	Limited Resources
5	1	NEW YORK / TIOGA	Struck by On-Track Equipment	Limited Resources
5	2	ILLINOIS / COOK	Struck by On-Track Equipment	Limited Resources
5	2	CALIFORNIA / FRESNO	Struck by On-Track Equipment	Limited Resources
5	2	CALIFORNIA / MERCED	Struck by On-Track Equipment	Limited Resources
5	2	INDIANA / ST JOSEPH	Struck by On-Track Equipment	Limited Resources
5	2	OKLAHOMA / CLEVELAND	Struck by On-Track Equipment	Limited Resources
5	2	PENNSYLVANIA / PHILADELPHIA	Struck by On-Track Equipment	Limited Resources
5	4	SOUTH CAROLINA / PICKENS	Struck by On-Track Equipment	Limited Resources
5	4	CALIFORNIA / ALAMEDA	Highway–Rail Collision / Impact	Limited Resources
5	4	TEXAS / GREGG	Struck by On-Track Equipment	Limited Resources
5	4	MASSACHUSETTS / WORCESTER	Struck by On-Track Equipment	Limited Resources
5	5	CALIFORNIA / MADERA	Struck by On-Track Equipment	Limited Resources
5	5	IDAHO / KOOTENAI	Struck by On-Track Equipment	Limited Resources
5	6	ARIZONA / PIMA	Struck by On-Track Equipment	Limited Resources
5	6	TENNESSEE / CARROLL	Ran into Object/equipment	Limited Resources
5	7	CALIFORNIA / FRESNO	Struck by On-Track Equipment	Limited Resources
5	8	VIRGINIA / COLONIAL HEIGHTS	Struck by On-Track Equipment	Limited Resources
5	8	OHIO / TRUMBULL	Struck by On-Track Equipment	Limited Resources
5	9	INDIANA / MARION	Highway–Rail Collision / Impact	Limited Resources
5	10	MONTANA / GLACIER	Struck by On-Track Equipment	Limited Resources
5	10	FLORIDA / ORANGE	Highway–Rail Collision / Impact	Limited Resources
5	10	ARIZONA / COCONINO	Struck by On-Track Equipment	Limited Resources
5	10	TEXAS / HOPKINS	Highway–Rail Collision / Impact	Limited Resources
5	10	TEXAS / DENTON	Struck by On-Track Equipment	Limited Resources
5	11	VIRGINIA / RICHMOND CITY	Highway–Rail Collision / Impact	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
5	11	OHIO / SUMMIT	Struck by On-Track Equipment	Limited Resources
5	12	MISSOURI / JACKSON	Struck by On-Track Equipment	Limited Resources
5	12	FLORIDA / PALM BEACH	Other	Limited Resources
5	14	ALABAMA / JEFFERSON	Struck by On-Track Equipment	Limited Resources
5	15	FLORIDA / HILLSBOROUGH	Struck by On-Track Equipment	Limited Resources
5	15	OREGON / MULTNOMAH	Struck by On-Track Equipment	Limited Resources
5	15	FLORIDA / CLAY	Struck by On-Track Equipment	Limited Resources
5	15	CALIFORNIA / SANTA CLARA	Other	Limited Resources
5	16	UTAH / UTAH	Highway–Rail Collision / Impact	Limited Resources
5	16	NORTH DAKOTA / CASS	Struck by On-Track Equipment	Limited Resources
5	17	CALIFORNIA / SAN LUIS OBISPO	Slipped / Fell / Stumbled	Limited Resources
5	17	VIRGINIA / HENRICO	Struck by On-Track Equipment	Limited Resources
5	17	GEORGIA / FLOYD	Struck by On-Track Equipment	Limited Resources
5	18	FLORIDA / PALM BEACH	Struck by On-Track Equipment	Limited Resources
5	18	CALIFORNIA / BUTTE	Struck by On-Track Equipment	Limited Resources
5	19	MISSOURI / JEFFERSON	Struck by On-Track Equipment	Limited Resources
5	19	PENNSYLVANIA / ERIE	Struck by On-Track Equipment	Limited Resources
5	20	TEXAS / BEXAR	Struck by On-Track Equipment	Limited Resources
5	20	MINNESOTA / ANOKA	Struck by On-Track Equipment	Limited Resources
5	20	TEXAS / AUSTIN	Highway–Rail Collision / Impact	Limited Resources
5	21	WEST VIRGINIA / MCDOWELL	Struck by On-Track Equipment	Limited Resources
5	21	OHIO / LOGAN	Struck by On-Track Equipment	Limited Resources
5	22	INDIANA / MARION	Struck by On-Track Equipment	Limited Resources
5	22	ILLINOIS / WILL	Struck by On-Track Equipment	Limited Resources
5	22	NEW MEXICO / VALENCIA	Struck by On-Track Equipment	Limited Resources
5	23	MASSACHUSETTS / MIDDLESEX	Highway–Rail Collision / Impact	Limited Resources
5	23	ILLINOIS / COOK	Struck by On-Track Equipment	Limited Resources
5	23	VERMONT / WASHINGTON	Highway–Rail Collision / Impact	Limited Resources
5	24	CALIFORNIA / RIVERSIDE	Struck by On-Track Equipment	Limited Resources
5	26	KENTUCKY / JEFFERSON	Struck by On-Track Equipment	Limited Resources
5	26	OHIO / HANCOCK	Struck by On-Track Equipment	Limited Resources
5	28	KANSAS / WABAUNSEE	Struck by On-Track Equipment	Limited Resources
5	28	ILLINOIS / DU PAGE	Highway–Rail Collision / Impact	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
5	29	CALIFORNIA / LOS ANGELES	Struck by On-Track Equipment	Limited Resources
5	29	MASSACHUSETTS / PLYMOUTH	Struck by On-Track Equipment	Limited Resources
5	29	ILLINOIS / COOK	Struck by On-Track Equipment	Limited Resources
5	29	TEXAS / GUADALUPE	Highway–Rail Collision / Impact	Limited Resources
5	31	NORTH CAROLINA / ROBESON	Struck by On-Track Equipment	Limited Resources
5	31	CALIFORNIA / LOS ANGELES	Ran into Object/equipment	Limited Resources
6	1	MASSACHUSETTS / SUFFOLK	Struck by On-Track Equipment	Limited Resources
6	1	CALIFORNIA / SAN JOAQUIN	Struck by On-Track Equipment	Limited Resources
6	2	INDIANA / TIPPECANOE	Struck by On-Track Equipment	Limited Resources
6	2	CALIFORNIA / LOS ANGELES	Ran into Object/equipment	Limited Resources
6	2	PENNSYLVANIA / DAUPHIN	Struck by On-Track Equipment	Limited Resources
6	2	TEXAS / BEXAR	Highway–Rail Collision / Impact	Limited Resources
6	2	CALIFORNIA / LOS ANGELES	Highway–Rail Collision / Impact	Limited Resources
6	3	FLORIDA / PALM BEACH	Struck by On-Track Equipment	Limited Resources
6	3	OHIO / WASHINGTON	Struck by On-Track Equipment	Limited Resources
6	3	CALIFORNIA / RIVERSIDE	Struck by On-Track Equipment	Limited Resources
6	3	OKLAHOMA / CLEVELAND	Highway–Rail Collision / Impact	Limited Resources
6	6	TEXAS / DALLAS	Collision / Impact – Auto, Truck, Bus, Van, Other	Limited Resources
6	6	INDIANA / WAYNE	Struck by On-Track Equipment	Limited Resources
6	7	CALIFORNIA / FRESNO	Struck by On-Track Equipment	Limited Resources
6	7	WISCONSIN / LA CROSSE	Struck by On-Track Equipment	Limited Resources
6	7	CALIFORNIA / ALAMEDA	Slipped / Fell / Stumbled	Limited Resources
6	7	OHIO / SUMMIT	Struck by On-Track Equipment	Limited Resources
6	8	ILLINOIS / MARION	Struck by On-Track Equipment	Limited Resources
6	9	MINNESOTA / BECKER	Struck by On-Track Equipment	Limited Resources
6	9	PENNSYLVANIA / ERIE	Other	Limited Resources
6	9	INDIANA / ST JOSEPH	Highway–Rail Collision / Impact	Limited Resources
6	9	PENNSYLVANIA / LAWRENCE	Highway–Rail Collision / Impact	Limited Resources
6	9	PENNSYLVANIA / NORTHUMBERLAND	Struck by On-Track Equipment	Limited Resources
6	9	CALIFORNIA / LOS ANGELES	Struck by On-Track Equipment	Limited Resources
6	9	CALIFORNIA / SAN BERNARDINO	Struck by On-Track Equipment	Limited Resources
6	9	NEW MEXICO / MCKINLEY	Struck by On-Track Equipment	Limited Resources
6	10	NORTH CAROLINA / ROWAN	Highway–Rail Collision / Impact	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
6	10	TENNESSEE / DAVIDSON	Struck by On-Track Equipment	Limited Resources
6	10	ILLINOIS / COOK	Highway–Rail Collision / Impact	Limited Resources
6	10	FLORIDA / BROWARD	Other	Limited Resources
6	12	SOUTH CAROLINA / RICHLAND	Struck by On-Track Equipment	Limited Resources
6	13	CALIFORNIA / LOS ANGELES	Highway–Rail Collision / Impact	Limited Resources
6	15	CALIFORNIA / CONTRA COSTA	Struck by On-Track Equipment	Limited Resources
6	17	ARIZONA / COCHISE	Struck by On-Track Equipment	Limited Resources
6	17	CALIFORNIA / STANISLAUS	Highway–Rail Collision / Impact	Limited Resources
6	18	NORTH CAROLINA / RICHMOND	Struck by On-Track Equipment	Limited Resources
6	18	CALIFORNIA / LOS ANGELES	Struck by On-Track Equipment	Limited Resources
6	20	MISSOURI / JEFFERSON	Sudden, Unexpected Movement / Other	Limited Resources
6	20	MINNESOTA / ANOKA	Other	Limited Resources
6	20	CALIFORNIA / SAN LUIS OBISPO	Aggravated Pre-Existing Condition	Limited Resources
6	21	CALIFORNIA / ORANGE	Aggravated Pre-Existing Condition	Limited Resources
6	21	CALIFORNIA / LOS ANGELES	Struck by On-Track Equipment	Limited Resources
6	21	CALIFORNIA / SAN BERNARDINO	Struck by On-Track Equipment	Limited Resources
6	22	PENNSYLVANIA / LEBANON	Struck by On-Track Equipment	Limited Resources
6	22	VIRGINIA / NOTTOWAY	Struck by On-Track Equipment	Limited Resources
6	22	CALIFORNIA / ORANGE	Struck by On-Track Equipment	Limited Resources
6	23	WASHINGTON / SNOHOMISH	Struck by On-Track Equipment	Limited Resources
6	23	ILLINOIS / COOK	Slipped / Fell / Stumbled	Limited Resources
6	23	PENNSYLVANIA / DELAWARE	Struck by On-Track Equipment	Limited Resources
6	25	NEW YORK / DUTCHESS	Struck by On-Track Equipment	Limited Resources
6	27	ILLINOIS / DU PAGE	Struck by On-Track Equipment	Limited Resources
6	27	CALIFORNIA / SONOMA	Highway–Rail Collision / Impact	Limited Resources
6	28	CALIFORNIA / SONOMA	Highway–Rail Collision / Impact	Limited Resources
6	28	CALIFORNIA / STANISLAUS	Struck by On-Track Equipment	Limited Resources
6	29	NEBRASKA / DOUGLAS	Struck by On-Track Equipment	Limited Resources
7	1	CALIFORNIA / VENTURA	Struck by On-Track Equipment	Limited Resources
7	1	CALIFORNIA / KERN	Other Impacts – on track equipment	Limited Resources
7	2	ILLINOIS / COOK	Thrill-Seeking	Limited Resources
7	3	MASSACHUSETTS / MIDDLESEX	Struck by On-Track Equipment	Limited Resources
7	3	NEW MEXICO / BERNALILLO	Struck by On-Track Equipment	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
7	4	CALIFORNIA / ALAMEDA	Struck by On-Track Equipment	Limited Resources
7	4	OKLAHOMA / LE FLORE	Struck by On-Track Equipment	Limited Resources
7	5	OKLAHOMA / CLEVELAND	Struck by On-Track Equipment	Limited Resources
7	5	KENTUCKY / MERCER	Struck by On-Track Equipment	Limited Resources
7	5	ILLINOIS / KANE	Struck by On-Track Equipment	Limited Resources
7	6	FLORIDA / MARTIN	Slipped / Fell / Stumbled	Limited Resources
7	7	LOUISIANA / ST CHARLES	Highway–Rail Collision / Impact	Limited Resources
7	7	NEW YORK / NASSAU	Struck by On-Track Equipment	Limited Resources
7	8	DELAWARE / NEW CASTLE	Struck by On-Track Equipment	Limited Resources
7	8	SOUTH CAROLINA / ALLENDALE	Struck by On-Track Equipment	Limited Resources
7	9	TEXAS / HARRIS	Highway–Rail Collision / Impact	Limited Resources
7	10	MASSACHUSETTS / MIDDLESEX	Struck by On-Track Equipment	Limited Resources
7	10	PENNSYLVANIA / CHESTER	Struck by On-Track Equipment	Limited Resources
7	11	LOUISIANA / CADDO	Struck by On-Track Equipment	Limited Resources
7	12	COLORADO / ADAMS	Struck by On-Track Equipment	Limited Resources
7	12	ILLINOIS / COOK	Highway–Rail Collision / Impact	Limited Resources
7	12	WASHINGTON / PIERCE	Struck by On-Track Equipment	Limited Resources
7	12	TENNESSEE / MCMINN	Struck by On-Track Equipment	Limited Resources
7	12	PENNSYLVANIA / DELAWARE	Struck by On-Track Equipment	Limited Resources
7	12	CALIFORNIA / SAN MATEO	Highway–Rail Collision / Impact	Limited Resources
7	13	CALIFORNIA / SAN BERNARDINO	Struck by On-Track Equipment	Limited Resources
7	14	ILLINOIS / DU PAGE	Highway–Rail Collision / Impact	Limited Resources
7	14	ILLINOIS / COOK	Highway–Rail Collision / Impact	Limited Resources
7	14	CALIFORNIA / KERN	Struck by On-Track Equipment	Limited Resources
7	14	NEW YORK / SUFFOLK	Struck by On-Track Equipment	Limited Resources
7	16	KANSAS / SHAWNEE	Struck by On-Track Equipment	Limited Resources
7	17	TEXAS / MONTGOMERY	Highway–Rail Collision / Impact	Limited Resources
7	18	CALIFORNIA / ORANGE	Struck by On-Track Equipment	Limited Resources
7	19	CALIFORNIA / STANISLAUS	Struck by On-Track Equipment	Limited Resources
7	19	GEORGIA / FULTON	Struck by On-Track Equipment	Limited Resources
7	20	CALIFORNIA / MONTEREY	Struck by On-Track Equipment	Limited Resources
7	20	TEXAS / DALLAS	Collision / Impact – Auto, Truck, Bus, Van, Other	Limited Resources
7	20	IOWA / POLK	Slipped / Fell / Stumbled	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
7	20	GEORGIA / FULTON	Shot	Limited Resources
7	21	NORTH CAROLINA / GUILFORD	Struck by On-Track Equipment	Limited Resources
7	21	FLORIDA / ST LUCIE	Struck by On-Track Equipment	Limited Resources
7	22	TEXAS / DENTON	Highway–Rail Collision / Impact	Limited Resources
7	22	CALIFORNIA / SANTA CLARA	Highway–Rail Collision / Impact	Limited Resources
7	22	CALIFORNIA / SAN MATEO	Highway–Rail Collision / Impact	Limited Resources
7	22	CALIFORNIA / KERN	Struck by On-Track Equipment	Limited Resources
7	23	WASHINGTON / PIERCE	Highway–Rail Collision / Impact	Limited Resources
7	23	WASHINGTON / KING	Highway–Rail Collision / Impact	Limited Resources
7	23	ILLINOIS / COOK	Other	Limited Resources
7	23	OREGON / LANE	Aggravated Pre-Existing Condition	Limited Resources
7	23	NEW YORK / STEUBEN	Struck by On-Track Equipment	Limited Resources
7	24	NEVADA / CLARK	Exposure to Fumes – Inhalation	Limited Resources
7	24	SOUTH CAROLINA / GREENVILLE	Struck by On-Track Equipment	Limited Resources
7	24	FLORIDA / ST LUCIE	Struck by On-Track Equipment	Limited Resources
7	25	FLORIDA / BROWARD	Struck by On-Track Equipment	Limited Resources
7	25	MISSOURIO / MARION	Struck by On-Track Equipment	Limited Resources
7	26	CONNECTICUT / TOLLAND	Thrill-Seeking	Limited Resources
7	26	VIRGINIA / PETERSBURG	Struck by On-Track Equipment	Limited Resources
7	26	PENNSYLVANIA / ERIE	Struck by On-Track Equipment	Limited Resources
7	26	IOWA / WEBSTER	Struck by On-Track Equipment	Limited Resources
7	27	TEXAS / BELL	Struck by On-Track Equipment	Limited Resources
7	27	CALIFORNIA / FRESNO	Struck by On-Track Equipment	Limited Resources
7	27	NEW YORK / ERIE	Struck by On-Track Equipment	Limited Resources
7	28	NEW HAMPSHIRE / ROCKINGHAM	Highway–Rail Collision / Impact	Limited Resources
7	28	SOUTH CAROLINA / DORCHESTER	Slipped / Fell / Stumbled	Limited Resources
7	28	ILLINOIS / WILL	Highway–Rail Collision / Impact	Limited Resources
7	28	SOUTH CAROLINA / SPARTANBURG	Struck by On-Track Equipment	Limited Resources
7	29	FLORIDA / BROWARD	Highway–Rail Collision / Impact	Limited Resources
7	30	PENNSYLVANIA / WESTMORELAND	Struck by On-Track Equipment	Limited Resources
7	31	CALIFORNIA / LOS ANGELES	Struck by On-Track Equipment	Limited Resources
7	31	PENNSYLVANIA / ALLEGHENY	Struck by On-Track Equipment	Limited Resources
8	1	GEORGIA / GWINNETT	Struck by On-Track Equipment	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
8	3	CALIFORNIA / SAN JOAQUIN	Struck by On-Track Equipment	Limited Resources
8	3	NEVADA / HUMBOLDT	Struck by On-Track Equipment	Limited Resources
8	4	NEBRASKA / KEARNEY	Struck by On-Track Equipment	Limited Resources
8	4	PENNSYLVANIA / CUMBERLAND	Struck by On-Track Equipment	Limited Resources
8	4	IOWA / PLYMOUTH	Struck by On-Track Equipment	Limited Resources
8	5	NEW YORK / NASSAU	Struck by On-Track Equipment	Limited Resources
8	6	ARIZONA / MARICOPA	Aggravated Pre-Existing Condition	Limited Resources
8	8	CALIFORNIA / LOS ANGELES	Struck by On-Track Equipment	Limited Resources
8	8	NORTH CAROLINA / CABARRUS	Struck by On-Track Equipment	Limited Resources
8	8	UTAH / SALT LAKE	Struck by On-Track Equipment	Limited Resources
8	9	NEW JERSEY / UNION	Struck by On-Track Equipment	Limited Resources
8	9	MASSACHUSETTS / MIDDLESEX	Struck by On-Track Equipment	Limited Resources
8	10	FLORIDA / BROWARD	Highway–Rail Collision / Impact	Limited Resources
8	10	CALIFORNIA / SAN FRANCISCO	Other	Limited Resources
8	10	TEXAS / DALLAS	Collision / Impact – Auto, Truck, Bus, Van, Other	Limited Resources
8	10	TENNESSEE / KNOX	Struck by On-Track Equipment	Limited Resources
8	10	OKLAHOMA / ELLIS	Struck by On-Track Equipment	Limited Resources
8	11	WASHINGTON / KING	Highway–Rail Collision / Impact	Limited Resources
8	11	CALIFORNIA / LOS ANGELES	Struck by On-Track Equipment	Limited Resources
8	11	TEXAS / EL PASO	Struck by On-Track Equipment	Limited Resources
8	13	WASHINGTON / SNOHOMISH	Struck by On-Track Equipment	Limited Resources
8	13	OHIO / COLUMBIANA	Struck by On-Track Equipment	Limited Resources
8	15	LOUISIANA / CALCASIEU	Aggravated Pre-Existing Condition	Limited Resources
8	15	OHIO / MARION	Struck by On-Track Equipment	Limited Resources
8	16	MISSOURI / JACKSON	Struck by On-Track Equipment	Limited Resources
8	16	ILLINOIS / COOK	Struck by On-Track Equipment	Limited Resources
8	16	WEST VIRGINIA / MERCER	Struck by On-Track Equipment	Limited Resources
8	16	OHIO / AUGLAIZE	Struck by On-Track Equipment	Limited Resources
8	17	MONTANA / ROOSEVELT	Highway–Rail Collision / Impact	Limited Resources
8	17	MINNESOTA / ROSEAU	Struck by On-Track Equipment	Limited Resources
8	18	NEBRASKA / LANCASTER	Struck by On-Track Equipment	Limited Resources
8	18	MONTANA / GLACIER	Slipped / Fell / Stumbled	Limited Resources
8	18	SOUTH CAROLINA / GREENWOOD	Struck by On-Track Equipment	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
8	19	MASSACHUSETTS / MIDDLESEX	Struck by On-Track Equipment	Limited Resources
8	20	FLORIDA / BROWARD	Highway–Rail Collision / Impact	Limited Resources
8	20	CALIFORNIA / ALAMEDA	Struck by On-Track Equipment	Limited Resources
8	20	CALIFORNIA / ORANGE	Struck by On-Track Equipment	Limited Resources
8	20	PENNSYLVANIA / WASHINGTON	Struck by On-Track Equipment	Limited Resources
8	20	OHIO / MONTGOMERY	Highway–Rail Collision / Impact	Limited Resources
8	21	NEVADA / CLARK	Struck by On-Track Equipment	Limited Resources
8	21	ARIZONA / MARICOPA	Aggravated Pre-Existing Condition	Limited Resources
8	21	ILLINOIS / COOK	Struck by On-Track Equipment	Limited Resources
8	21	NEVADA / CLARK	Struck by On-Track Equipment	Limited Resources
8	22	MASSACHUSETTS / ESSEX	Struck by On-Track Equipment	Limited Resources
8	22	TENNESSEE / DAVIDSON	Other	Limited Resources
8	22	PENNSYLVANIA / BERKS	Highway–Rail Collision / Impact	Limited Resources
8	23	NEW JERSEY / MORRIS	Struck by On-Track Equipment	Limited Resources
8	23	TEXAS / FORT BEND	Highway–Rail Collision / Impact	Limited Resources
8	23	TEXAS / BEXAR	Struck by On-Track Equipment	Limited Resources
8	23	TEXAS / LUBBOCK	Struck by On-Track Equipment	Limited Resources
8	24	NEW JERSEY / BERGEN	Struck by On-Track Equipment	Limited Resources
8	24	ARKANSAS / DALLAS	Struck by On-Track Equipment	Limited Resources
8	24	MINNESOTA / CASS	Struck by On-Track Equipment	Limited Resources
8	24	KENTUCKY / LINCOLN	Struck by On-Track Equipment	Limited Resources
8	25	FLORIDA / BROWARD	Highway–Rail Collision / Impact	Limited Resources
8	25	CALIFORNIA / STANISLAUS	Struck by On-Track Equipment	Limited Resources
8	25	TEXAS / HARRIS	Struck by On-Track Equipment	Limited Resources
8	25	ILLINOIS / COOK	Struck by On-Track Equipment	Limited Resources
8	25	NEW YORK / NASSAU	Highway–Rail Collision / Impact	Limited Resources
8	26	ILLINOIS / KANE	Highway–Rail Collision / Impact	Limited Resources
8	26	VIRGINIA / CHESAPEAKE	Slipped / Fell / Stumbled	Limited Resources
8	27	NEW JERSEY / MONMOUTH	Struck by On-Track Equipment	Limited Resources
8	27	CALIFORNIA / RIVERSIDE	Aggravated Pre-Existing Condition	Limited Resources
8	27	INDIANA / MONROE	Other	Limited Resources
8	27	ILLINOIS / COOK	Struck by On-Track Equipment	Limited Resources
8	27	GEORGIA / GORDON	Struck by On-Track Equipment	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
8	29	FLORIDA / BROWARD	Struck by On-Track Equipment	Limited Resources
8	29	NEVADA / CLARK	Aggravated Pre-Existing Condition	Limited Resources
8	29	KENTUCKY / GRANT	Struck by On-Track Equipment	Limited Resources
8	29	CALIFORNIA / SANTA CLARA	Other	Limited Resources
8	30	CALIFORNIA / MONTEREY	Struck by On-Track Equipment	Limited Resources
8	30	COLORADO / PUEBLO	Struck by On-Track Equipment	Limited Resources
8	30	ARKANSAS / DESHA	Struck by On-Track Equipment	Limited Resources
8	31	MISSOURI / PHELPS	Struck by On-Track Equipment	Limited Resources
8	31	CALIFORNIA / SAN BERNARDINO	Struck by On-Track Equipment	Limited Resources
8	31	WASHINGTON / WHATCOM	Highway–Rail Collision / Impact	Limited Resources
8	31	NEW YORK / SARATOGA	Struck by On-Track Equipment	Limited Resources
9	1	MISSOURI / ST CHARLES	Struck by On-Track Equipment	Limited Resources
9	1	MASSACHUSETTS / PLYMOUTH	Struck by On-Track Equipment	Limited Resources
9	2	NEBRASKA / KEITH	Struck by On-Track Equipment	Limited Resources
9	2	MASSACHUSETTS / WORCESTER	Struck by On-Track Equipment	Limited Resources
9	2	TEXAS / TARRANT	Struck by On-Track Equipment	Limited Resources
9	2	ILLINOIS / JACKSON	Highway–Rail Collision / Impact	Limited Resources
9	3	INDIANA / PORTER	Struck by On-Track Equipment	Limited Resources
9	4	CALIFORNIA / LOS ANGELES	Highway–Rail Collision / Impact	Limited Resources
9	5	CALIFORNIA / CONTRA COSTA	Highway–Rail Collision / Impact	Limited Resources
9	5	CALIFORNIA / SAN FRANCISCO	Other	Limited Resources
9	5	OREGON / JACKSON	Other	Limited Resources
9	5	FLORIDA / PALM BEACH	Struck by On-Track Equipment	Limited Resources
9	6	NEW YORK / NASSAU	Struck by On-Track Equipment	Limited Resources
9	6	FLORIDA / PALM BEACH	Highway–Rail Collision / Impact	Limited Resources
9	7	OKLAHOMA / PITTSBURG	Aggravated Pre-Existing Condition	Limited Resources
9	8	TEXAS / MIDLAND	Highway–Rail Collision / Impact	Limited Resources
9	8	CALIFORNIA / SANTA BARBARA	Assaulted by Other	Limited Resources
9	8	CALIFORNIA / SHASTA	Other Impacts - on track equipment	Limited Resources
9	9	GEORGIA / ELBERT	Struck by On-Track Equipment	Limited Resources
9	10	TEXAS / BEXAR	Struck by On-Track Equipment	Limited Resources
9	11	TEXAS / FORT BEND	Struck by On-Track Equipment	Limited Resources
9	12	CALIFORNIA / ALAMEDA	Highway–Rail Collision / Impact	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
9	12	ILLINOIS / COOK	Highway–Rail Collision / Impact	Limited Resources
9	12	FLORIDA / BROWARD	Highway–Rail Collision / Impact	Limited Resources
9	13	TEXAS / EL PASO	Highway–Rail Collision / Impact	Limited Resources
9	13	TEXAS / BURLESON	Highway–Rail Collision / Impact	Limited Resources
9	14	CALIFORNIA / SAN JOAQUIN	Highway–Rail Collision / Impact	Limited Resources
9	14	CALIFORNIA / BUTTE	Struck by On-Track Equipment	Limited Resources
9	14	ALABAMA / CALABAMAHOON	Highway–Rail Collision / Impact	Limited Resources
9	16	CALIFORNIA / YOLO	Highway–Rail Collision / Impact	Limited Resources
9	17	CALIFORNIA / IMPERIAL	Assaulted by Other	Limited Resources
9	17	OKLAHOMA / TULSA	Struck by On-Track Equipment	Limited Resources
9	18	NORTH CAROLINA / GASTON	Struck by On-Track Equipment	Limited Resources
9	18	ILLINOIS / DU PAGE	Struck by On-Track Equipment	Limited Resources
9	18	CALIFORNIA / ALAMEDA	Highway–Rail Collision / Impact	Limited Resources
9	19	MICHIGAN / WAYNE	Struck by On-Track Equipment	Limited Resources
9	19	CALIFORNIA / LOS ANGELES	Struck by On-Track Equipment	Limited Resources
9	19	KENTUCKY / CLARK	Struck by On-Track Equipment	Limited Resources
9	20	KENTUCKY / SHELBY	Struck by On-Track Equipment	Limited Resources
9	20	WASHINGTON / KING	Struck by On-Track Equipment	Limited Resources
9	22	NEW JERSEY / BERGEN	Struck by On-Track Equipment	Limited Resources
9	22	CALIFORNIA / MERCED	Struck by On-Track Equipment	Limited Resources
9	23	ILLINOIS / DU PAGE	Struck by On-Track Equipment	Limited Resources
9	24	FLORIDA / BROWARD	Highway–Rail Collision / Impact	Limited Resources
9	24	CALIFORNIA / SANTA CLARA	Highway–Rail Collision / Impact	Limited Resources
9	24	FLORIDA / MIAMI-DADE	Highway–Rail Collision / Impact	Limited Resources
9	24	NEW YORK / ORANGE	Struck by On-Track Equipment	Limited Resources
9	25	TEXAS / JOHNSON	Highway–Rail Collision / Impact	Limited Resources
9	26	CALIFORNIA / SAN DIEGO	Highway–Rail Collision / Impact	Limited Resources
9	27	NORTH CAROLINA / DURHAM	Struck by On-Track Equipment	Limited Resources
9	27	CALIFORNIA / SAN BERNARDINO	Struck by On-Track Equipment	Limited Resources
9	27	CALIFORNIA / CONTRA COSTA	Struck by On-Track Equipment	Limited Resources
9	28	FLORIDA / PALM BEACH	Struck by On-Track Equipment	Limited Resources
9	29	NORTH CAROLINA / MECKLENBURG	Struck by On-Track Equipment	Limited Resources
9	29	WEST VIRGINIA / WAYNE	Struck by On-Track Equipment	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
9	29	ALABAMA / MADISON	Struck by On-Track Equipment	Limited Resources
9	29	GEORGIA / GWINNETT	Struck by On-Track Equipment	Limited Resources
9	30	CALIFORNIA / LOS ANGELES	Highway–Rail Collision / Impact	Limited Resources
9	30	KANSAS / SHAWNEE	Struck by On-Track Equipment	Limited Resources
9	30	TEXAS / DALLAS	Highway–Rail Collision / Impact	Limited Resources
10	1	TEXAS / GUADALUPE	Struck by On-Track Equipment	Limited Resources
10	1	ARIZONA / PINAL	Struck by On-Track Equipment	Limited Resources
10	1	CALIFORNIA / SANTA CLARA	Other	Limited Resources
10	2	CALIFORNIA / SANTA BARBARA	Assaulted by Other	Limited Resources
10	2	CALIFORNIA / SOLANO	Highway–Rail Collision / Impact	Limited Resources
10	3	MARYLAND / BALTIMORE	Struck by On-Track Equipment	Limited Resources
10	4	PENNSYLVANIA / LEBANON	Struck by On-Track Equipment	Limited Resources
10	4	OHIO / LUCAS	Struck by On-Track Equipment	Limited Resources
10	5	TENNESSEE / KNOX	Struck by On-Track Equipment	Limited Resources
10	5	OKLAHOMA / BRYAN	Struck by On-Track Equipment	Limited Resources
10	5	NEW JERSEY / MIDDLESEX	Struck by On-Track Equipment	Limited Resources
10	6	NORTH CAROLINA / ORANGE	Struck by On-Track Equipment	Limited Resources
10	6	MICHIGAN / WAYNE	Highway–Rail Collision / Impact	Limited Resources
10	6	TEXAS / BEXAR	Highway–Rail Collision / Impact	Limited Resources
10	7	NORTH CAROLINA / WAKE	Struck by On-Track Equipment	Limited Resources
10	7	MARYLAND / WASHINGTON	Struck by On-Track Equipment	Limited Resources
10	7	TEXAS / TRAVIS	Struck by On-Track Equipment	Limited Resources
10	7	SOUTH CAROLINA / DORCHESTER	Highway–Rail Collision / Impact	Limited Resources
10	8	MASSACHUSETTS / SUFFOLK	Struck by On-Track Equipment	Limited Resources
10	8	VIRGINIA / LYNCHBURG	Struck by On-Track Equipment	Limited Resources
10	8	OHIO / BUTLER	Highway–Rail Collision / Impact	Limited Resources
10	8	ARIZONA / MOHAVE	Struck by On-Track Equipment	Limited Resources
10	9	ALABAMA / LOWNDES	Struck by On-Track Equipment	Limited Resources
10	9	OKLAHOMA / LE FLORE	Struck by On-Track Equipment	Limited Resources
10	9	NEW YORK / QUEENS	Struck by On-Track Equipment	Limited Resources
10	11	ARKANSAS / JEFFERSON	Shot	Limited Resources
10	12	COLORADO / DENVER	Struck by On-Track Equipment	Limited Resources
10	12	CALIFORNIA / SACRAMENTO	Struck by On-Track Equipment	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
10	12	OHIO / SUMMIT	Struck by On-Track Equipment	Limited Resources
10	13	CALIFORNIA / KERN	Struck by On-Track Equipment	Limited Resources
10	13	CALIFORNIA / SACRAMENTO	Slipped / Fell / Stumbled	Limited Resources
10	13	WISCONSIN / KENOSHA	Struck by On-Track Equipment	Limited Resources
10	13	ARIZONA / COCONINO	Struck by On-Track Equipment	Limited Resources
10	13	FLORIDA / PALM BEACH	Struck by On-Track Equipment	Limited Resources
10	16	TENNESSEE / DAVIDSON	Struck by On-Track Equipment	Limited Resources
10	16	PENNSYLVANIA / DELAWARE	Struck by On-Track Equipment	Limited Resources
10	17	FLORIDA / POLK	Struck by On-Track Equipment	Limited Resources
10	17	CALIFORNIA / CONTRA COSTA	Assaulted by Other	Limited Resources
10	18	CALIFORNIA / LOS ANGELES	Struck by On-Track Equipment	Limited Resources
10	18	CALIFORNIA / FRESNO	Highway–Rail Collision / Impact	Limited Resources
10	19	MINNESOTA / HENNEPIN	Struck by On-Track Equipment	Limited Resources
10	19	TEXAS / DALLAS	Struck by On-Track Equipment	Limited Resources
10	20	CALIFORNIA / SAN JOAQUIN	Highway–Rail Collision / Impact	Limited Resources
10	20	CALIFORNIA / CONTRA COSTA	Struck by On-Track Equipment	Limited Resources
10	20	ALABAMA / JEFFERSON	Struck by On-Track Equipment	Limited Resources
10	21	TEXAS / WEBB	Struck by On-Track Equipment	Limited Resources
10	21	ILLINOIS / KNOX	Struck by On-Track Equipment	Limited Resources
10	22	MASSACHUSETTS / ESSEX	Highway–Rail Collision / Impact	Limited Resources
10	22	CALIFORNIA / SANTA BARBARA	Struck by On-Track Equipment	Limited Resources
10	23	CALIFORNIA / SAN FRANCISCO	Other	Limited Resources
10	24	ALABAMA / JEFFERSON	Struck by On-Track Equipment	Limited Resources
10	24	CALIFORNIA / ALAMEDA	Highway–Rail Collision / Impact	Limited Resources
10	24	WASHINGTON / FRANKLIN	Highway–Rail Collision / Impact	Limited Resources
10	24	WASHINGTON / PIERCE	Struck by On-Track Equipment	Limited Resources
10	25	NEBRASKA / HALL	Highway–Rail Collision / Impact	Limited Resources
10	25	TEXAS / FRIO	Struck by On-Track Equipment	Limited Resources
10	26	CALIFORNIA / LOS ANGELES	Struck by On-Track Equipment	Limited Resources
10	26	TEXAS / TARRANT	Struck by On-Track Equipment	Limited Resources
10	26	ILLINOIS / COOK	Highway–Rail Collision / Impact	Limited Resources
10	26	NEW YORK / PUTNAM	Struck by On-Track Equipment	Limited Resources
10	27	FLORIDA / BREVARD	Struck by On-Track Equipment	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
10	28	FLORIDA / OSCEOLA	Highway–Rail Collision / Impact	Limited Resources
10	28	NORTH CAROLINA / WAKE	Struck by On-Track Equipment	Limited Resources
10	28	NORTH CAROLINA / CABARRUS	Highway–Rail Collision / Impact	Limited Resources
10	28	CALIFORNIA / CONTRA COSTA	Highway–Rail Collision / Impact	Limited Resources
10	28	GEORGIA / GWINNETT	Struck by On-Track Equipment	Limited Resources
10	29	OHIO / DELAWARE	Struck by On-Track Equipment	Limited Resources
10	29	NEW MEXICO / BERNALILLO	Highway–Rail Collision / Impact	Limited Resources
10	30	FLORIDA / PALM BEACH	Highway–Rail Collision / Impact	Limited Resources
10	30	CALIFORNIA / SAN DIEGO	Highway–Rail Collision / Impact	Limited Resources
10	30	TENNESSEE / ANDERSON	Struck by On-Track Equipment	Limited Resources
11	1	MONTANA / ROOSEVELT	Highway–Rail Collision / Impact	Limited Resources
11	1	CONNECTICUT/ NEW HAVEN	Struck by On-Track Equipment	Limited Resources
11	1	TEXAS / DALLAS	Other	Limited Resources
11	2	FLORIDA / MIAMI-DADE	Struck by On-Track Equipment	Limited Resources
11	2	ILLINOIS / COOK	Struck by On-Track Equipment	Limited Resources
11	2	OREGON / MULTNOMAH	Struck by On-Track Equipment	Limited Resources
11	2	NEW JERSEY / PASSAIC	Struck by On-Track Equipment	Limited Resources
11	3	TEXAS / MONTGOMERY	Struck by On-Track Equipment	Limited Resources
11	4	NEW YORK / NASSAU	Struck by On-Track Equipment	Limited Resources
11	5	MICHIGAN / WASHTENAW	Highway–Rail Collision / Impact	Limited Resources
11	5	CALIFORNIA / RIVERSIDE	Struck by On-Track Equipment	Limited Resources
11	5	NEW MEXICO / MCKINLEY	Struck by On-Track Equipment	Limited Resources
11	6	MASSACHUSETTS / MIDDLESEX	Struck by On-Track Equipment	Limited Resources
11	6	CALIFORNIA / LOS ANGELES	Aggravated Pre-Existing Condition	Limited Resources
11	7	PENNSYLVANIA / PHILADELPHIA	Struck by On-Track Equipment	Limited Resources
11	8	CALIFORNIA / FRESNO	Struck by On-Track Equipment	Limited Resources
11	9	TEXAS / HARDIN	Struck by On-Track Equipment	Limited Resources
11	9	CALIFORNIA / ORANGE	Struck by On-Track Equipment	Limited Resources
11	9	PENNSYLVANIA / ALLEGHENY	Struck by On-Track Equipment	Limited Resources
11	10	COLORADO / EL PASO	Struck by On-Track Equipment	Limited Resources
11	10	CALIFORNIA / SACRAMENTO	Struck by On-Track Equipment	Limited Resources
11	11	GEORGIA / COBB	Highway–Rail Collision / Impact	Limited Resources
11	12	LOUISIANA / JEFFERSON	Highway–Rail Collision / Impact	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
11	12	OREGON / MARION	Other	Limited Resources
11	13	FLORIDA / BROWARD	Highway–Rail Collision / Impact	Limited Resources
11	13	CALIFORNIA / SONOMA	Highway–Rail Collision / Impact	Limited Resources
11	13	NEW JERSEY / ESSEX	Struck by On-Track Equipment	Limited Resources
11	14	CALIFORNIA / SAN DIEGO	Highway–Rail Collision / Impact	Limited Resources
11	14	NEW YORK / NASSAU	Struck by On-Track Equipment	Limited Resources
11	15	FLORIDA / MIAMI-DADE	Struck by On-Track Equipment	Limited Resources
11	16	CALIFORNIA / SANTA CLARA	Struck by On-Track Equipment	Limited Resources
11	16	NEW YORK / BRONX	Struck by On-Track Equipment	Limited Resources
11	17	CALIFORNIA / ORANGE	Struck by On-Track Equipment	Limited Resources
11	19	WASHINGTON / ADAMS	Struck by On-Track Equipment	Limited Resources
11	19	ILLINOIS / WILL	Struck by On-Track Equipment	Limited Resources
11	21	CONNECTICUT / NEW HAVEN	Struck by On-Track Equipment	Limited Resources
11	21	GEORGIA / WARE	Highway–Rail Collision / Impact	Limited Resources
11	21	PENNSYLVANIA / DELAWARE	Struck by On-Track Equipment	Limited Resources
11	22	NORTH CAROLINA / CABARRUS	Struck by On-Track Equipment	Limited Resources
11	22	FLORIDA / SEMINOLE	Struck by On-Track Equipment	Limited Resources
11	22	MISSOURI / WEBSTER	Struck by On-Track Equipment	Limited Resources
11	23	MICHIGAN / WAYNE	Highway–Rail Collision / Impact	Limited Resources
11	23	ILLINOIS / ST CLAIR	Highway–Rail Collision / Impact	Limited Resources
11	23	GEORGIA / RICHMOND	Struck by On-Track Equipment	Limited Resources
11	25	CALIFORNIA / RIVERSIDE	Struck by On-Track Equipment	Limited Resources
11	25	ARIZONA / GILA	Struck by On-Track Equipment	Limited Resources
11	26	FLORIDA / MIAMI-DADE	Struck by On-Track Equipment	Limited Resources
11	27	CALIFORNIA / LOS ANGELES	Struck by On-Track Equipment	Limited Resources
11	27	CALIFORNIA / STANISLAUS	Struck by On-Track Equipment	Limited Resources
11	29	FLORIDA / PALM BEACH	Struck by On-Track Equipment	Limited Resources
11	29	LOUISIANA / CADDO	Struck by Thrown or Propelled Object	Limited Resources
11	30	MISSOURI / GREENE	Struck by On-Track Equipment	Limited Resources
12	1	MICHIGAN / OAKLAND	Highway–Rail Collision / Impact	Limited Resources
12	1	WASHINGTON / PIERCE	Highway–Rail Collision / Impact	Limited Resources
12	1	GEORGIA / WARE	Struck by On-Track Equipment	Limited Resources
12	2	CALIFORNIA / SANTA CLARA	Other	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
12	2	PENNSYLVANIA / ALLEGHENY	Other	Limited Resources
12	3	WASHINGTON / PIERCE	Struck by On-Track Equipment	Limited Resources
12	3	CALIFORNIA / KERN	Struck by On-Track Equipment	Limited Resources
12	3	SOUTH CAROLINA / GREENVILLE	Struck by On-Track Equipment	Limited Resources
12	4	NORTH CAROLINA / GUILFORD	Struck by On-Track Equipment	Limited Resources
12	4	FLORIDA / MIAMI-DADE	Struck by On-Track Equipment	Limited Resources
12	5	CALIFORNIA / CONTRA COSTA	Struck by On-Track Equipment	Limited Resources
12	5	TEXAS / HARRIS	Slipped / Fell / Stumbled	Limited Resources
12	6	WEST VIRGINIA / LOGAN	Struck by On-Track Equipment	Limited Resources
12	6	CALIFORNIA / SAN BERNARDINO	Aggravated Pre-Existing Condition	Limited Resources
12	6	INDIANA / MARION	Struck by On-Track Equipment	Limited Resources
12	6	PENNSYLVANIA / BUCKS	Struck by On-Track Equipment	Limited Resources
12	7	MISSOURI / ST LOUIS	Struck by On-Track Equipment	Limited Resources
12	7	CALIFORNIA / RIVERSIDE	Struck by On-Track Equipment	Limited Resources
12	7	INDIANA / LAKE	Highway–Rail Collision / Impact	Limited Resources
12	7	GEORGIA / MURRAY	Struck by On-Track Equipment	Limited Resources
12	8	FLORIDA / PALM BEACH	Struck by On-Track Equipment	Limited Resources
12	8	TEXAS / TARRANT	Struck by On-Track Equipment	Limited Resources
12	8	TEXAS / HARRIS	Struck by On-Track Equipment	Limited Resources
12	8	OHIO / STARK	Struck by On-Track Equipment	Limited Resources
12	10	MICHIGAN / JACKSON	Struck by On-Track Equipment	Limited Resources
12	10	VIRGINIA / RICHMOND CITY	Struck by On-Track Equipment	Limited Resources
12	10	CALIFORNIA / STANISLAUS	Highway–Rail Collision / Impact	Limited Resources
12	10	ILLINOIS / COOK	Highway–Rail Collision / Impact	Limited Resources
12	10	NEW YORK / ALBANY	Other	Limited Resources
12	11	INDIANA / NOBLE	Highway–Rail Collision / Impact	Limited Resources
12	11	OKLAHOMA / OKLAHOMA	Highway–Rail Collision / Impact	Limited Resources
12	11	OHIO / BUTLER	Other	Limited Resources
12	12	ARIZONA / MARICOPA	Struck by On-Track Equipment	Limited Resources
12	12	OKLAHOMA / GRADY	Struck by On-Track Equipment	Limited Resources
12	12	OHIO / SENECA	Highway–Rail Collision / Impact	Limited Resources
12	13	FLORIDA / ORANGE	Other	Limited Resources
12	13	CALIFORNIA / SAN BERNARDINO	Struck by On-Track Equipment	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
12	13	ARIZONA / GILA	Struck by On-Track Equipment	Limited Resources
12	13	TENNESSEE / RHEA	Struck by On-Track Equipment	Limited Resources
12	13	PENNSYLVANIA / BERKS	Highway–Rail Collision / Impact	Limited Resources
12	14	MICHIGAN / OAKLAND	Struck by On-Track Equipment	Limited Resources
12	14	TEXAS / WICHITA	Struck by On-Track Equipment	Limited Resources
12	14	ILLINOIS / COOK	Struck by On-Track Equipment	Limited Resources
12	14	PENNSYLVANIA / LACKAWANNA	Struck by On-Track Equipment	Limited Resources
12	15	NORTH CAROLINA / ROWAN	Struck by On-Track Equipment	Limited Resources
12	15	ARKANSAS / PULASKI	Assaulted by Other	Limited Resources
12	15	LOUISIANA / WEBSTER	Struck by On-Track Equipment	Limited Resources
12	15	TEXAS / TRAVIS	Struck by On-Track Equipment	Limited Resources
12	15	OHIO / DELAWARE	Highway–Rail Collision / Impact	Limited Resources
12	16	CALIFORNIA / STANISLAUS	Struck by On-Track Equipment	Limited Resources
12	17	WASHINGTON / KING	Struck by On-Track Equipment	Limited Resources
12	18	MARYLAND / HARFORD	Struck by On-Track Equipment	Limited Resources
12	18	TENNESSEE / LOUDON	Struck by On-Track Equipment	Limited Resources
12	19	CALIFORNIA / LOS ANGELES	Struck by On-Track Equipment	Limited Resources
12	20	FLORIDA / PALM BEACH	Highway–Rail Collision / Impact	Limited Resources
12	20	MISSISSIPPI / SIMPSON	Collision with On-Track Equipment	Limited Resources
12	21	CALIFORNIA / SHASTA	Struck by On-Track Equipment	Limited Resources
12	25	NEBRASKA / DOUGLAS	Slipped / Fell / Stumbled	Limited Resources
12	26	NORTH CAROLINA / DAVIDSON	Struck by Object	Limited Resources
12	26	CALIFORNIA / SISKIYOU	Slipped / Fell / Stumbled	Limited Resources
12	26	CALIFORNIA / KERN	Struck by On-Track Equipment	Limited Resources
12	26	ILLINOIS / COOK	Shot	Limited Resources
12	27	WASHINGTON / SKAGIT	Highway–Rail Collision / Impact	Limited Resources
12	27	CALIFORNIA / BUTTE	Struck by On-Track Equipment	Limited Resources
12	27	VIRGINIA / SUFFOLK	Highway–Rail Collision / Impact	Limited Resources
12	27	PENNSYLVANIA / PHILADELPHIA	Struck by On-Track Equipment	Limited Resources
12	28	MISSOURI / PLATTE	Highway–Rail Collision / Impact	Limited Resources
12	28	WASHINGTON / YAKIMA	Struck by On-Track Equipment	Limited Resources
12	29	CALIFORNIA / SACRAMENTO	Struck by On-Track Equipment	Limited Resources
12	29	CALIFORNIA / FRESNO	Struck by On-Track Equipment	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
12	30	FLORIDA / BROWARD	Struck by On-Track Equipment	Limited Resources
12	30	NORTH CAROLINA / RICHMOND	Struck by On-Track Equipment	Limited Resources
12	30	CALIFORNIA / SANTA BARBARA	Struck by On-Track Equipment	Limited Resources
12	30	CALIFORNIA / SAN JOAQUIN	Struck by On-Track Equipment	Limited Resources
12	30	CALIFORNIA / LOS ANGELES	Struck by On-Track Equipment	Limited Resources
12	30	TEXAS / RANDALL	Struck by On-Track Equipment	Limited Resources
12	31	CALIFORNIA / CONTRA COSTA	Struck by On-Track Equipment	Limited Resources
12	31	TEXAS / HARRIS	Struck by On-Track Equipment	Limited Resources

Railroad (Transit)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
1	1	Santa Clara Valley Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
1	1	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
1	2	Los Angeles County Metropolitan Transportation Authority	Person	Limited Resources
1	2	Utah Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
1	2	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
1	2	MTA New York City Transit	Person	Limited Resources
1	2	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
1	3	City of Charlotte North Carolina	Fixed Object	Limited Resources
1	3	Central Puget Sound Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
1	3	Dallas Area Rapid Transit	Non Transit Motor Vehicle (POV)	Limited Resources
1	3	New Jersey Transit Corporation	Person	Limited Resources
1	3	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
1	4	Chicago Transit Authority	Person	Limited Resources
1	4	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
1	5	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV) / Person	Limited Resources
1	5	New Jersey Transit Corporation	Non Transit Motor Vehicle (POV)	Limited Resources
1	6	Los Angeles County Metropolitan Transportation Authority	Person	Limited Resources
1	6	MTA New York City Transit	Person	Limited Resources
1	6	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
1	6	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
1	8	Transportation District Commission of Hampton Roads	Fixed Object	Limited Resources
1	8	Valley Metro Rail, Inc.	Non Transit Motor Vehicle (POV)	Limited Resources
1	8	Massachusetts Bay Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
1	8	Sacramento Regional Transit District	Non Transit Motor Vehicle (POV)	Limited Resources
1	8	Metropolitan Transit Authority of Harris County, Texas	Fixed Object	Limited Resources
1	9	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
1	9	Santa Clara Valley Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
1	9	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
1	9	Maryland Transit Administration	Person	Limited Resources
1	10	Port Authority of Allegheny County	Non Transit Motor Vehicle (POV)	Limited Resources
1	10	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
1	10	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
1	10	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
1	10	M-1 Rail	Fixed Object	Limited Resources
1	11	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
1	12	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
1	12	Port Authority of Allegheny County	Non Transit Motor Vehicle (POV)	Limited Resources
1	12	Los Angeles County Metropolitan Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
1	13	Santa Clara Valley Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
1	13	Los Angeles County Metropolitan Transportation Authority	Person	Limited Resources
1	13	City of Charlotte North Carolina	Non Transit Motor Vehicle (POV)	Limited Resources
1	14	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
1	14	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
1	15	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
1	15	Los Angeles County Metropolitan Transportation Authority	Person	Limited Resources
1	15	Southwest Ohio Regional Transit Authority	Non-Rail Transit Vehicle	Limited Resources
1	15	Central Oklahoma Transportation and Parking Authority	Non Transit Motor Vehicle (POV)	Limited Resources
1	15	Los Angeles County Metropolitan Transportation Authority	Person	Limited Resources
1	16	Sacramento Regional Transit District	Non Transit Motor Vehicle (POV)	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
1	17	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
1	17	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
1	19	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
1	21	MTA New York City Transit	Person	Limited Resources
1	21	Los Angeles County Metropolitan Transportation Authority	Person	Limited Resources
1	22	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
1	22	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
1	22	The Greater Cleveland Regional Transit Authority	Rail Transit Vehicle/Rail Passenger Train – Not in Revenue Service	Limited Resources
1	22	Chicago Transit Authority	Fixed Object	Limited Resources
1	22	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
1	23	Utah Transit Authority	Person	Limited Resources
1	24	Valley Metro Rail, Inc.	Non Transit Motor Vehicle (POV)	Limited Resources
1	24	New Orleans Regional Transit Authority	Person	Limited Resources
1	25	Chicago Transit Authority	Fixed Object	Limited Resources
1	25	MTA New York City Transit	Person	Limited Resources
1	26	Sacramento Regional Transit District	Non-Rail Transit Vehicle	Limited Resources
1	26	Hillsborough Area Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
1	27	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
1	27	City of Tucson	Non Transit Motor Vehicle (POV)	Limited Resources
1	27	Valley Metro Rail, Inc.	Person	Limited Resources
1	28	Transportation District Commission of Hampton Roads	Non Transit Motor Vehicle (POV)	Limited Resources
1	28	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
1	28	M-1 Rail	Non Transit Motor Vehicle (POV)	Limited Resources
1	29	Maryland Transit Administration	Non Transit Motor Vehicle (POV)	Limited Resources
1	30	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
1	30	Central Oklahoma Transportation and Parking Authority	Non Transit Motor Vehicle (POV)	Limited Resources
1	30	Southeastern Pennsylvania Transportation Authority	Person	Limited Resources
1	30	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
1	30	Tri-County Metropolitan Transportation District of Oregon	Non Transit Motor Vehicle (POV)	Limited Resources
1	31	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
1	31	MTA New York City Transit	Person	Limited Resources
2	1	Chicago Transit Authority	Person	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
2	1	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
2	2	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
2	2	Valley Metro Rail, Inc.	Non Transit Motor Vehicle (POV)	Limited Resources
2	2	MTA New York City Transit	Person	Limited Resources
2	2	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
2	2	New Orleans Regional Transit Authority	Person	Limited Resources
2	2	Chicago Transit Authority	Fixed Object	Limited Resources
2	3	Chicago Transit Authority	Person	Limited Resources
2	3	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
2	4	City of Charlotte North Carolina	Person	Limited Resources
2	4	Santa Clara Valley Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
2	4	Metropolitan Transit Authority of Harris County, Texas	Person	Limited Resources
2	5	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
2	5	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
2	5	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
2	6	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
2	6	Utah Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
2	6	Port Authority of Allegheny County	Non Transit Motor Vehicle (POV)	Limited Resources
2	7	Utah Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
2	7	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
2	8	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
2	8	City and County of San Francisco	Non-Rail Transit Vehicle	Limited Resources
2	8	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
2	8	Valley Metro Rail, Inc.	Non Transit Motor Vehicle (POV)	Limited Resources
2	8	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
2	8	M-1 Rail	Non Transit Motor Vehicle (POV)	Limited Resources
2	8	Dallas Area Rapid Transit	Person	Limited Resources
2	9	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
2	9	Dallas Area Rapid Transit	Non Transit Motor Vehicle (POV)	Limited Resources
2	10	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
2	10	Utah Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
2	10	Washington Metropolitan Area Transit Authority	Person	Limited Resources
2	11	City of Portland	Non Transit Motor Vehicle (POV)	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
2	11	Tri-County Metropolitan Transportation District of Oregon	Rail Transit Vehicle / Rail Passenger Train – Revenue Service	Limited Resources
2	11	Dallas Area Rapid Transit	Person	Limited Resources
2	12	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
2	12	Transportation District Commission of Hampton Roads	Non Transit Motor Vehicle (POV)	Limited Resources
2	12	Massachusetts Bay Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
2	12	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
2	13	Valley Metro Rail, Inc.	Person	Limited Resources
2	13	Staten Island Rapid Transit Operating Authority	Person	Limited Resources
2	13	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
2	14	King County Department of Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
2	14	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV) / Person	Limited Resources
2	14	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
2	14	MTA New York City Transit	Person	Limited Resources
2	15	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
2	15	Massachusetts Bay Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
2	15	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
2	16	Bi-State Development Agency of the Missouri–Illinois Metropolitan District	Non Transit Motor Vehicle (POV)	Limited Resources
2	16	Central Puget Sound Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
2	17	City and County of San Francisco	Person	Limited Resources
2	17	San Diego Metropolitan Transit System	Person	Limited Resources
2	17	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
2	17	MTA New York City Transit	Person	Limited Resources
2	17	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
2	17	Maryland Transit Administration	Non Transit Motor Vehicle (POV)	Limited Resources
2	18	Washington Metropolitan Area Transit Authority	Person	Limited Resources
2	18	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
2	18	Chicago Transit Authority	Person	Limited Resources
2	18	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
2	19	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
2	19	MTA New York City Transit	Person	Limited Resources
2	19	Central Puget Sound Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
2	19	Metropolitan Atlanta Rapid Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
2	20	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
2	20	Los Angeles County Metropolitan Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
2	20	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
2	21	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
2	21	City of Portland	Non Transit Motor Vehicle (POV)	Limited Resources
2	21	Hillsborough Area Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
2	21	MTA New York City Transit	Person	Limited Resources
2	21	Maryland Transit Administration	Person	Limited Resources
2	22	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV) / Person	Limited Resources
2	22	Sacramento Regional Transit District	Person	Limited Resources
2	22	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
2	22	MTA New York City Transit	Person	Limited Resources
2	23	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
2	25	Valley Metro Rail, Inc.	Non Transit Motor Vehicle (POV)	Limited Resources
2	25	New Jersey Transit Corporation	Other	Limited Resources
2	26	Southeastern Pennsylvania Transportation Authority	Person	Limited Resources
2	26	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
2	27	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
2	27	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
2	27	New Jersey Transit Corporation	Non Transit Motor Vehicle (POV)	Limited Resources
2	27	MTA New York City Transit	Person	Limited Resources
2	27	Washington Metropolitan Area Transit Authority	Fixed Object	Limited Resources
2	28	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
2	28	MTA New York City Transit	Person	Limited Resources
2	28	San Diego Metropolitan Transit System	Person	Limited Resources
2	28	Central Puget Sound Regional Transit Authority	Fixed Object	Limited Resources
2	28	Valley Metro Rail, Inc.	Non Transit Motor Vehicle (POV)	Limited Resources
3	1	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
3	1	MTA New York City Transit	Person	Limited Resources
3	2	MTA New York City Transit	Person	Limited Resources
3	2	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
3	3	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
3	3	MTA New York City Transit	Person	Limited Resources
3	4	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
3	4	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
3	4	San Diego Metropolitan Transit System	Non Transit Motor Vehicle (POV)	Limited Resources
3	4	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
3	4	Washington Metropolitan Area Transit Authority	Fixed Object	Limited Resources
3	5	Washington Metropolitan Area Transit Authority	Fixed Object	Limited Resources
3	6	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
3	7	Southeastern Pennsylvania Transportation Authority	Person	Limited Resources
3	7	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
3	8	Chicago Transit Authority	Person	Limited Resources
3	8	Massachusetts Bay Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
3	8	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
3	8	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
3	10	City and County of San Francisco	Rail Transit Vehicle/Rail Passenger Train – Revenue Service / Non Transit Motor Vehicle (POV)	Limited Resources
3	10	Chicago Transit Authority	Person	Limited Resources
3	11	Central Puget Sound Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
3	12	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
3	12	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
3	12	Massachusetts Bay Transportation Authority	Person	Limited Resources
3	12	Chicago Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
3	12	New Jersey Transit Corporation	Non Transit Motor Vehicle (POV)	Limited Resources
3	13	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
3	13	Central Puget Sound Regional Transit Authority	Non Transit Motor Vehicle (POV) / Person	Limited Resources
3	13	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
3	14	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
3	14	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
3	14	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
3	15	Central Puget Sound Regional Transit Authority	Person	Limited Resources
3	15	City and County of San Francisco	Rail Transit Vehicle/Rail Passenger Train – Not in Revenue Service	Limited Resources
3	16	MTA New York City Transit	Person	Limited Resources
3	16	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
3	16	Hillsborough Area Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
3	16	Metropolitan Transit Authority of Harris County, Texas	Person	Limited Resources
3	16	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
3	17	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
3	17	Tri-County Metropolitan Transportation District of Oregon	Non Transit Motor Vehicle (POV)	Limited Resources
3	19	Chicago Transit Authority	Person	Limited Resources
3	20	Southeastern Pennsylvania Transportation Authority	Person	Limited Resources
3	20	San Francisco Bay Area Rapid Transit District	Other	Limited Resources
3	21	Rock Region Metropolitan Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
3	21	Massachusetts Bay Transportation Authority	Person	Limited Resources
3	22	Santa Clara Valley Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
3	22	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
3	22	City and County of San Francisco	Non Transit Motor Vehicle (POV) / Person	Limited Resources
3	22	Los Angeles County Metropolitan Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
3	23	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
3	23	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
3	24	MTA New York City Transit	Person	Limited Resources
3	24	Dallas Area Rapid Transit	Person	Limited Resources
3	25	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
3	26	MTA New York City Transit	Person	Limited Resources
3	26	Tri-County Metropolitan Transportation District of Oregon	Non Transit Motor Vehicle (POV)	Limited Resources
3	26	Central Puget Sound Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
3	26	M-1 Rail	Non Transit Motor Vehicle (POV)	Limited Resources
3	27	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
3	27	Massachusetts Bay Transportation Authority	Person	Limited Resources
3	27	Central Puget Sound Regional Transit Authority	Person	Limited Resources
3	28	Sacramento Regional Transit District	Non Transit Motor Vehicle (POV)	Limited Resources
3	28	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
3	28	Tri-County Metropolitan Transportation District of Oregon	Non Transit Motor Vehicle (POV)	Limited Resources
3	28	Central Puget Sound Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
3	28	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
3	29	MTA New York City Transit	Person	Limited Resources
3	29	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
3	29	M-1 Rail	Non Transit Motor Vehicle (POV)	Limited Resources
3	30	Dallas Area Rapid Transit	Person	Limited Resources
3	30	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
3	31	City of Portland	Non Transit Motor Vehicle (POV)	Limited Resources
4	1	Southeastern Pennsylvania Transportation Authority	Person	Limited Resources
4	1	MTA New York City Transit	Person	Limited Resources
4	1	Southwest Ohio Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
4	2	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
4	2	Chicago Transit Authority	Person	Limited Resources
4	2	Utah Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
4	2	Washington Metropolitan Area Transit Authority	Fixed Object	Limited Resources
4	3	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
4	3	MTA New York City Transit	Person	Limited Resources
4	4	Los Angeles County Metropolitan Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
4	4	MTA New York City Transit	Person	Limited Resources
4	4	Tri-County Metropolitan Transportation District of Oregon	Person	Limited Resources
4	4	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
4	4	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
4	5	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
4	5	Los Angeles County Metropolitan Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
4	6	MTA New York City Transit	Person	Limited Resources
4	7	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
4	7	City and County of San Francisco	Person	Limited Resources
4	7	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
4	8	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV) / Person	Limited Resources
4	9	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
4	9	Valley Metro Rail, Inc.	Non Transit Motor Vehicle (POV)	Limited Resources
4	9	Central Puget Sound Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
4	10	Los Angeles County Metropolitan Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
4	10	Utah Transit Authority	Non-Rail Transit Vehicle	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
4	10	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
4	11	Southeastern Pennsylvania Transportation Authority	Person	Limited Resources
4	11	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
4	12	Southeastern Pennsylvania Transportation Authority	Person	Limited Resources
4	12	City and County of San Francisco	Rail Transit Vehicle/Rail Passenger Train – Revenue Service / Person	Limited Resources
4	12	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
4	12	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
4	13	Massachusetts Bay Transportation Authority	Person	Limited Resources
4	13	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
4	14	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
4	14	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
4	15	Metro Transit	Person	Limited Resources
4	15	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
4	15	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
4	16	MTA New York City Transit	Person	Limited Resources
4	17	Utah Transit Authority	Person	Limited Resources
4	18	Central Puget Sound Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
4	18	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
4	19	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
4	19	Santa Clara Valley Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
4	19	MTA New York City Transit	Person	Limited Resources
4	19	San Diego Metropolitan Transit System	Non Transit Motor Vehicle (POV)	Limited Resources
4	19	Utah Transit Authority	Person	Limited Resources
4	20	Metro Transit	Person	Limited Resources
4	20	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
4	20	Massachusetts Bay Transportation Authority	Person	Limited Resources
4	20	MTA New York City Transit	Person	Limited Resources
4	20	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
4	21	Southeastern Pennsylvania Transportation Authority	Person	Limited Resources
4	21	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
4	21	Utah Transit Authority	Non Transit Motor Vehicle (POV) / Person	Limited Resources
4	22	MTA New York City Transit	Person	Limited Resources
4	24	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
4	24	Dallas Area Rapid Transit	Person	Limited Resources
4	25	New Jersey Transit Corporation	Non Transit Motor Vehicle (POV)	Limited Resources
4	25	MTA New York City Transit	Person	Limited Resources
4	25	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
4	26	MTA New York City Transit	Person	Limited Resources
4	26	Dallas Area Rapid Transit	Person	Limited Resources
4	27	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV) / Person	Limited Resources
4	27	MTA New York City Transit	Person	Limited Resources
4	28	City and County of San Francisco	Rail Transit Vehicle/Rail Passenger Train – Not in Revenue Service	Limited Resources
4	28	MTA New York City Transit	Person	Limited Resources
4	28	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
4	29	MTA New York City Transit	Person	Limited Resources
4	29	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
4	30	MTA New York City Transit	Person	Limited Resources
5	1	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
5	2	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
5	2	Utah Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
5	2	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
5	3	City and County of San Francisco	Person	Limited Resources
5	3	MTA New York City Transit	Person	Limited Resources
5	4	MTA New York City Transit	Person	Limited Resources
5	4	Central Puget Sound Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
5	5	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
5	5	Massachusetts Bay Transportation Authority	Person	Limited Resources
5	5	Metro Transit	Person	Limited Resources
5	6	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
5	6	Los Angeles County Metropolitan Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
5	6	MTA New York City Transit	Person	Limited Resources
5	6	San Diego Metropolitan Transit System	Person	Limited Resources
5	6	King County Department of Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
5	7	MTA New York City Transit	Person	Limited Resources
5	7	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
5	7	Central Puget Sound Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
5	8	MTA New York City Transit	Person	Limited Resources
5	8	Southeastern Pennsylvania Transportation Authority	Person	Limited Resources
5	8	Valley Metro Rail, Inc.	Non Transit Motor Vehicle (POV)	Limited Resources
5	9	Southeastern Pennsylvania Transportation Authority	Person	Limited Resources
5	9	MTA New York City Transit	Person	Limited Resources
5	10	MTA New York City Transit	Person	Limited Resources
5	10	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
5	10	Port Authority of Allegheny County	Rail Transit Vehicle–Rail Transit Maintenance or Service Vehicle on Rail Fixed Guideway	Limited Resources
5	10	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
5	10	Bi-State Development Agency of the Missouri–Illinois Metropolitan District	Non Transit Motor Vehicle (POV)	Limited Resources
5	10	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
5	11	Southwest Ohio Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
5	11	MTA New York City Transit	Person	Limited Resources
5	12	MTA New York City Transit	Person	Limited Resources
5	12	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
5	13	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
5	13	Chicago Transit Authority	Person	Limited Resources
5	13	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
5	14	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
5	15	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
5	15	Hillsborough Area Regional Transit Authority	Person	Limited Resources
5	15	Utah Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
5	16	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
5	16	Dallas Area Rapid Transit	Person	Limited Resources
5	16	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
5	17	Chicago Transit Authority	Fixed Object	Limited Resources
5	17	MTA New York City Transit	Person	Limited Resources
5	18	New Orleans Regional Transit Authority	Person	Limited Resources
5	18	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
5	19	Southeastern Pennsylvania Transportation Authority	Person	Limited Resources
5	19	MTA New York City Transit	Person	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
5	19	New Jersey Transit Corporation	Non Transit Motor Vehicle (POV)	Limited Resources
5	19	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
5	20	Santa Clara Valley Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
5	20	Chicago Transit Authority	Person	Limited Resources
5	20	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
5	20	MTA New York City Transit	Person	Limited Resources
5	21	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
5	21	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
5	21	Valley Metro Rail, Inc.	Non Transit Motor Vehicle (POV)	Limited Resources
5	21	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
5	21	Utah Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
5	22	Utah Transit Authority	Person	Limited Resources
5	23	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
5	23	Utah Transit Authority	Person	Limited Resources
5	24	MTA New York City Transit	Person	Limited Resources
5	24	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
5	24	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
5	24	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
5	25	New Jersey Transit Corporation	Person	Limited Resources
5	25	MTA New York City Transit	Person	Limited Resources
5	25	Santa Clara Valley Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
5	25	Tri-County Metropolitan Transportation District of Oregon	Non Transit Motor Vehicle (POV)	Limited Resources
5	26	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
5	26	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
5	27	City of Portland	Non Transit Motor Vehicle (POV)	Limited Resources
5	27	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
5	28	New Orleans Regional Transit Authority	Rail Transit Vehicle/Rail Passenger Train – Revenue Service	Limited Resources
5	29	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
5	29	MTA New York City Transit	Person	Limited Resources
5	29	Washington Metropolitan Area Transit Authority	Fixed Object	Limited Resources
5	29	San Francisco Bay Area Rapid Transit District	Fixed Object	Limited Resources
5	29	Valley Metro Rail, Inc.	Non Transit Motor Vehicle (POV)	Limited Resources
5	29	Sacramento Regional Transit District	Non Transit Motor Vehicle (POV)	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
5	30	MTA New York City Transit	Person	Limited Resources
5	30	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
5	31	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
5	31	Dallas Area Rapid Transit	Person	Limited Resources
6	1	Niagara Frontier Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
6	1	Chicago Transit Authority	Person	Limited Resources
6	1	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
6	1	M-1 Rail	Fixed Object	Limited Resources
6	3	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
6	3	Central Puget Sound Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
6	3	MTA New York City Transit	Person	Limited Resources
6	4	City of Portland	Non Transit Motor Vehicle (POV)	Limited Resources
6	4	MTA New York City Transit	Person	Limited Resources
6	5	Metropolitan Transit Authority of Harris County, Texas	Person	Limited Resources
6	7	Southeastern Pennsylvania Transportation Authority	Person	Limited Resources
6	7	McKinney Avenue Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
6	7	MTA New York City Transit	Person	Limited Resources
6	7	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
6	7	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
6	8	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
6	9	New Jersey Transit Corporation	Person	Limited Resources
6	9	City and County of San Francisco	Non-Rail Transit Vehicle	Limited Resources
6	10	McKinney Avenue Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
6	10	Dallas Area Rapid Transit	Non Transit Motor Vehicle (POV)	Limited Resources
6	11	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
6	11	MTA New York City Transit	Person	Limited Resources
6	12	North County Transit District	Non Transit Motor Vehicle (POV)	Limited Resources
6	12	Utah Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
6	12	Chicago Transit Authority	Fixed Object	Limited Resources
6	12	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
6	12	City and County of San Francisco	Non Transit Motor Vehicle (POV) / Person	Limited Resources
6	12	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
6	13	Utah Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
6	13	Metropolitan Transit Authority of Harris County, Texas	Person	Limited Resources
6	14	Valley Metro Rail, Inc.	Non Transit Motor Vehicle (POV)	Limited Resources
6	14	Santa Clara Valley Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
6	16	Southeastern Pennsylvania Transportation Authority	Person	Limited Resources
6	16	City and County of San Francisco	Person	Limited Resources
6	16	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
6	17	MTA New York City Transit	Person	Limited Resources
6	18	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
6	18	MTA New York City Transit	Person	Limited Resources
6	19	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
6	19	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
6	20	Chicago Transit Authority	Person	Limited Resources
6	21	MTA New York City Transit	Person	Limited Resources
6	21	The Greater Cleveland Regional Transit Authority	Rail Transit Vehicle / Rail Passenger Train - Not in Revenue Service	Limited Resources
6	21	Los Angeles County Metropolitan Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
6	22	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
6	22	Utah Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
6	23	McKinney Avenue Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
6	23	Sacramento Regional Transit District	Non Transit Motor Vehicle (POV)	Limited Resources
6	23	MTA New York City Transit	Person	Limited Resources
6	24	City of Charlotte North Carolina	Person	Limited Resources
6	26	Santa Clara Valley Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
6	26	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
6	26	Utah Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
6	26	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
6	27	Sacramento Regional Transit District	Person	Limited Resources
6	27	Chicago Transit Authority	Person	Limited Resources
6	27	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
6	29	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
6	29	MTA New York City Transit	Person	Limited Resources
6	29	Chicago Transit Authority	Person	Limited Resources
6	30	Chicago Transit Authority	Person	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
6	30	Santa Clara Valley Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
7	1	Southeastern Pennsylvania Transportation Authority	Rail Transit Vehicle/Rail Passenger Train – Revenue Service	Limited Resources
7	1	City of Portland	Non Transit Motor Vehicle (POV)	Limited Resources
7	1	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
7	2	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
7	4	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
7	4	Bi-State Development Agency of the Missouri-Illinois Metropolitan District	Person	Limited Resources
7	4	Tri-County Metropolitan Transportation District of Oregon	Non Transit Motor Vehicle (POV)	Limited Resources
7	4	MTA New York City Transit	Person	Limited Resources
7	4	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
7	5	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
7	5	City of Tucson	Non Transit Motor Vehicle (POV)	Limited Resources
7	5	The Greater Cleveland Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
7	5	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
7	6	Southeastern Pennsylvania Transportation Authority	Person	Limited Resources
7	6	San Diego Metropolitan Transit System	Person	Limited Resources
7	6	Valley Metro Rail, Inc.	Non Transit Motor Vehicle (POV)	Limited Resources
7	6	Dallas Area Rapid Transit	Person	Limited Resources
7	7	City of Charlotte North Carolina	Person	Limited Resources
7	7	Washington Metropolitan Area Transit Authority	Fixed Object	Limited Resources
7	8	New Jersey Transit Corporation	Person	Limited Resources
7	8	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
7	9	Tri-County Metropolitan Transportation District of Oregon	Person	Limited Resources
7	9	MTA New York City Transit	Person	Limited Resources
7	10	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
7	10	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
7	10	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
7	10	Santa Clara Valley Transportation Authority	Person	Limited Resources
7	10	Tri-County Metropolitan Transportation District of Oregon	Person	Limited Resources
7	11	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
7	11	Sacramento Regional Transit District	Non Transit Motor Vehicle (POV)	Limited Resources
7	12	Central Puget Sound Regional Transit Authority	Rail Transit Vehicle / Rail Passenger Train – Not in Revenue Service	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
7	12	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
7	12	West Virginia University – Morgantown Personal Rapid Transit	Rail Transit Vehicle / Rail Passenger Train – Not in Revenue Service	Limited Resources
7	13	City of Memphis	Person	Limited Resources
7	14	Chicago Transit Authority	Person	Limited Resources
7	14	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
7	14	Metropolitan Transit Authority of Harris County, Texas	Person	Limited Resources
7	15	MTA New York City Transit	Person	Limited Resources
7	15	City of Charlotte North Carolina	Fixed Object	Limited Resources
7	16	New Jersey Transit Corporation	Person	Limited Resources
7	17	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
7	17	Port Authority of Allegheny County	Non Transit Motor Vehicle (POV)	Limited Resources
7	18	MTA New York City Transit	Person	Limited Resources
7	19	Santa Clara Valley Transportation Authority	Person	Limited Resources
7	19	MTA New York City Transit	Person	Limited Resources
7	19	Valley Metro Rail, Inc.	Non Transit Motor Vehicle (POV)	Limited Resources
7	19	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
7	20	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
7	20	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
7	22	New Jersey Transit Corporation	Non Transit Motor Vehicle (POV)	Limited Resources
7	22	City of Portland	Non Transit Motor Vehicle (POV)	Limited Resources
7	22	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
7	22	Dallas Area Rapid Transit	Person	Limited Resources
7	23	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
7	24	San Francisco Bay Area Rapid Transit District	Person	Limited Resources
7	24	Tri-County Metropolitan Transportation District of Oregon	Person	Limited Resources
7	24	New Jersey Transit Corporation	Person	Limited Resources
7	24	Metropolitan Transit Authority of Harris County, Texas	Person	Limited Resources
7	26	Los Angeles County Metropolitan Transportation Authority	Person	Limited Resources
7	26	Valley Metro Rail, Inc.	Non Transit Motor Vehicle (POV)	Limited Resources
7	27	Massachusetts Bay Transportation Authority	Person	Limited Resources
7	27	Central Puget Sound Regional Transit Authority	Person	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
7	29	Denver Regional Transportation District	Person	Limited Resources
7	29	Central Puget Sound Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
7	29	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
7	30	McKinney Avenue Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
7	30	City of Tucson	Non Transit Motor Vehicle (POV)	Limited Resources
7	30	San Francisco Bay Area Rapid Transit District	Person	Limited Resources
7	30	Massachusetts Bay Transportation Authority	Rail Transit Vehicle /Rail Passenger Train – Revenue Service	Limited Resources
7	30	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
8	1	City of Portland	Non Transit Motor Vehicle (POV)	Limited Resources
8	1	Metropolitan Transit Authority of Harris County, Texas	Person	Limited Resources
8	2	Metro Transit	Person	Limited Resources
8	2	Santa Clara Valley Transportation Authority	Person	Limited Resources
8	2	MTA New York City Transit	Person	Limited Resources
8	2	Massachusetts Bay Transportation Authority	Person	Limited Resources
8	2	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
8	2	Hillsborough Area Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
8	3	Metro Transit	Person	Limited Resources
8	3	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
8	3	Hillsborough Area Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
8	4	Los Angeles County Metropolitan Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
8	5	MTA New York City Transit	Person	Limited Resources
8	5	Sacramento Regional Transit District	Person	Limited Resources
8	6	MTA New York City Transit	Person	Limited Resources
8	6	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
8	7	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV) / Person	Limited Resources
8	7	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
8	7	Hillsborough Area Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
8	8	Metro Transit	Person	Limited Resources
8	8	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
8	8	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
8	10	MTA New York City Transit	Person	Limited Resources
8	10	Washington Metropolitan Area Transit Authority	Fixed Object	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
8	11	San Diego Metropolitan Transit System	Person	Limited Resources
8	11	MTA New York City Transit	Rail Transit Vehicle / Rail Passenger Train – Not in Revenue Service	Limited Resources
8	12	City of Portland	Non Transit Motor Vehicle (POV)	Limited Resources
8	12	Los Angeles County Metropolitan Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
8	13	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
8	13	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
8	13	Los Angeles County Metropolitan Transportation Authority	Person	Limited Resources
8	13	Hillsborough Area Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
8	13	Dallas Area Rapid Transit	Person	Limited Resources
8	13	New Orleans Regional Transit Authority	Person	Limited Resources
8	14	Santa Clara Valley Transportation Authority	Non Transit Motor Vehicle (POV) / Person	Limited Resources
8	14	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
8	14	Valley Metro Rail, Inc.	Non Transit Motor Vehicle (POV)	Limited Resources
8	14	Tri-County Metropolitan Transportation District of Oregon	Person	Limited Resources
8	15	Washington Metropolitan Area Transit Authority	Rail Transit Vehicle / Rail Passenger Train – Not in Revenue Service	Limited Resources
8	15	Dallas Area Rapid Transit	Non Transit Motor Vehicle (POV)	Limited Resources
8	16	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
8	16	Valley Metro Rail, Inc.	Non Transit Motor Vehicle (POV)	Limited Resources
8	16	San Diego Metropolitan Transit System	Person	Limited Resources
8	17	Valley Metro Rail, Inc.	Person	Limited Resources
8	18	Tri-County Metropolitan Transportation District of Oregon	Non-Rail Transit Vehicle	Limited Resources
8	19	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
8	19	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
8	19	New Jersey Transit Corporation	Person	Limited Resources
8	20	MTA New York City Transit	Person	Limited Resources
8	20	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
8	20	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
8	21	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
8	22	Los Angeles County Metropolitan Transportation Authority	Non-Rail Transit Vehicle	Limited Resources
8	22	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
8	23	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
8	23	Dallas Area Rapid Transit	Person	Limited Resources
8	23	Sacramento Regional Transit District	Non Transit Motor Vehicle (POV)	Limited Resources
8	23	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
8	25	New Jersey Transit Corporation	Non Transit Motor Vehicle (POV)	Limited Resources
8	25	Central Puget Sound Regional Transit Authority	Fixed Object	Limited Resources
8	25	MTA New York City Transit	Person	Limited Resources
8	26	McKinney Avenue Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
8	26	Utah Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
8	27	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
8	28	Santa Clara Valley Transportation Authority	Person	Limited Resources
8	29	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
8	30	Metro Transit	Person	Limited Resources
8	30	New Jersey Transit Corporation	Non Transit Motor Vehicle (POV)	Limited Resources
8	30	Utah Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
8	30	Chicago Transit Authority	Person	Limited Resources
8	30	MTA New York City Transit	Person	Limited Resources
8	31	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
8	31	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
8	31	The Greater Cleveland Regional Transit Authority	Rail Transit Vehicle / Rail Passenger Train – Not in Revenue Service	Limited Resources
9	2	Metro Transit	Person	Limited Resources
9	2	City and County of San Francisco	Non-Rail Transit Vehicle / NonTransit Motor Vehicle (POV)	Limited Resources
9	2	MTA New York City Transit	Person	Limited Resources
9	2	Massachusetts Bay Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
9	2	Port Authority of Allegheny County	Fixed Object	Limited Resources
9	2	Sacramento Regional Transit District	Non Transit Motor Vehicle (POV)	Limited Resources
9	3	Transportation District Commission of Hampton Roads	Non Transit Motor Vehicle (POV)	Limited Resources
9	3	MTA New York City Transit	Person	Limited Resources
9	4	Southeastern Pennsylvania Transportation Authority	Person	Limited Resources
9	4	Chicago Transit Authority	Person	Limited Resources
9	4	Massachusetts Bay Transportation Authority	Person	Limited Resources
9	4	San Diego Metropolitan Transit System	Non Transit Motor Vehicle (POV)	Limited Resources
9	4	Sacramento Regional Transit District	Person	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
9	5	MTA New York City Transit	Person	Limited Resources
9	5	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
9	5	Bi-State Development Agency of the Missouri-Illinois Metropolitan District	Other	Limited Resources
9	6	Tri-County Metropolitan Transportation District of Oregon	Non Transit Motor Vehicle (POV)	Limited Resources
9	6	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV) / Person	Limited Resources
9	6	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
9	6	Chicago Transit Authority	Rail Transit Vehicle – Rail Transit Maintenance or Service Vehicle on Rail Fixed Guideway	Limited Resources
9	6	Tri-County Metropolitan Transportation District of Oregon	Non Transit Motor Vehicle (POV)	Limited Resources
9	7	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
9	8	MTA New York City Transit	Person	Limited Resources
9	8	New Orleans Regional Transit Authority	Rail Transit Vehicle / Rail Passenger Train – Revenue Service	Limited Resources
9	9	Metro Transit	Person	Limited Resources
9	9	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
9	11	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
9	11	M-1 Rail	Non Transit Motor Vehicle (POV)	Limited Resources
9	12	MTA New York City Transit	Person	Limited Resources
9	12	Santa Clara Valley Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
9	12	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV) / Person	Limited Resources
9	14	MTA New York City Transit	Person	Limited Resources
9	15	City of Portland	Non Transit Motor Vehicle (POV)	Limited Resources
9	15	Valley Metro Rail, Inc.	Non Transit Motor Vehicle (POV)	Limited Resources
9	16	City of Charlotte North Carolina	Non Transit Motor Vehicle (POV)	Limited Resources
9	17	City of Portland	Non Transit Motor Vehicle (POV)	Limited Resources
9	17	Metropolitan Atlanta Rapid Transit Authority	Person	Limited Resources
9	17	MTA New York City Transit	Person	Limited Resources
9	18	Metro Transit	Person	Limited Resources
9	18	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
9	18	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
9	18	The Greater Cleveland Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
9	19	San Francisco Bay Area Rapid Transit District	Person	Limited Resources
9	19	Bi-State Development Agency of the Missouri-Illinois Metropolitan District	Person	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
9	20	Santa Clara Valley Transportation Authority	Non Transit Motor Vehicle (POV) / Person	Limited Resources
9	20	Central Puget Sound Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
9	20	San Diego Metropolitan Transit System	Person	Limited Resources
9	21	MTA New York City Transit	Person	Limited Resources
9	21	Sacramento Regional Transit District	Non Transit Motor Vehicle (POV)	Limited Resources
9	21	M-1 Rail	Non Transit Motor Vehicle (POV)	Limited Resources
9	22	Los Angeles County Metropolitan Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
9	23	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
9	23	Sacramento Regional Transit District	Non Transit Motor Vehicle (POV)	Limited Resources
9	24	Chicago Transit Authority	Rail Transit Vehicle / Rail Passenger Train – Revenue Service	Limited Resources
9	25	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
9	26	Southeastern Pennsylvania Transportation Authority	Person	Limited Resources
9	26	Chicago Transit Authority	Person	Limited Resources
9	26	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
9	26	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
9	27	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
9	27	MTA New York City Transit	Person	Limited Resources
9	27	Central Puget Sound Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
9	28	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
9	28	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
9	29	Metropolitan Transit Authority of Harris County, Texas	Person	Limited Resources
9	29	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
9	30	Utah Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
10	1	Metro Transit	Person	Limited Resources
10	1	City of Charlotte North Carolina	Fixed Object	Limited Resources
10	1	Utah Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
10	1	City and County of San Francisco	Other	Limited Resources
10	2	Sacramento Regional Transit District	Non Transit Motor Vehicle (POV)	Limited Resources
10	2	Dallas Area Rapid Transit	Person	Limited Resources
10	3	City of Portland	Non Transit Motor Vehicle (POV)	Limited Resources
10	3	Chicago Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
10	3	Los Angeles County Metropolitan Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
10	3	Utah Transit Authority	Person	Limited Resources
10	3	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
10	3	Bi-State Development Agency of the Missouri-Illinois Metropolitan District	Person	Limited Resources
10	4	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
10	4	City of Portland	Person	Limited Resources
10	4	MTA New York City Transit	Person	Limited Resources
10	4	Massachusetts Bay Transportation Authority	Rail Transit Vehicle / Rail Passenger Train – Not in Revenue Service	Limited Resources
10	4	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
10	4	The Greater Cleveland Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
10	4	New Orleans Regional Transit Authority	Person	Limited Resources
10	5	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
10	5	MTA New York City Transit	Person	Limited Resources
10	5	City of Portland	Non Transit Motor Vehicle (POV)	Limited Resources
10	6	Southeastern Pennsylvania Transportation Authority	Rail Transit Vehicle / Rail Passenger Train – Revenue Service	Limited Resources
10	6	San Francisco Bay Area Rapid Transit District	Rail Transit Vehicle – Rail Transit Maintenance or Service Vehicle on Rail Fixed Guideway	Limited Resources
10	7	Sacramento Regional Transit District	Person	Limited Resources
10	7	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
10	7	Washington Metropolitan Area Transit Authority	Rail Transit Vehicle / Rail Passenger Train – Revenue Service	Limited Resources
10	7	Dallas Area Rapid Transit	Person	Limited Resources
10	8	City of Portland	Non Transit Motor Vehicle (POV)	Limited Resources
10	8	MTA New York City Transit	Person	Limited Resources
10	9	Santa Clara Valley Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
10	9	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
10	9	Utah Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
10	9	Metropolitan Transit Authority of Harris County, Texas	Person	Limited Resources
10	9	Dallas Area Rapid Transit	Person	Limited Resources
10	10	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
10	11	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
10	11	San Diego Metropolitan Transit System	Person	Limited Resources
10	11	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
10	12	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
10	12	City of Portland	Non Transit Motor Vehicle (POV)	Limited Resources
10	12	New Jersey Transit Corporation	Non Transit Motor Vehicle (POV)	Limited Resources
10	12	Los Angeles County Metropolitan Transportation Authority	Person	Limited Resources
10	12	Denver Regional Transportation District	Person	Limited Resources
10	12	Dallas Area Rapid Transit	Person	Limited Resources
10	13	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
10	14	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
10	15	Santa Clara Valley Transportation Authority	Person	Limited Resources
10	15	Dallas Area Rapid Transit	Person	Limited Resources
10	16	McKinney Avenue Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
10	16	New Jersey Transit Corporation	Person	Limited Resources
10	16	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
10	16	Massachusetts Bay Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
10	16	Sacramento Regional Transit District	Person	Limited Resources
10	17	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
10	17	Central Puget Sound Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
10	17	City and County of San Francisco	Person	Limited Resources
10	18	Los Angeles County Metropolitan Transportation Authority	Person	Limited Resources
10	18	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
10	19	McKinney Avenue Transit Authority	Other	Limited Resources
10	19	MTA New York City Transit	Person	Limited Resources
10	19	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
10	20	Utah Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
10	20	Chicago Transit Authority	Person	Limited Resources
10	20	Massachusetts Bay Transportation Authority	Rail Transit Vehicle – Rail Transit Maintenance or Service Vehicle on Rail Fixed Guideway	Limited Resources
10	21	Transportation District Commission of Hampton Roads	Fixed Object	Limited Resources
10	22	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
10	22	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
10	22	Valley Metro Rail, Inc.	Non Transit Motor Vehicle (POV)	Limited Resources
10	22	Massachusetts Bay Transportation Authority	Rail Transit Vehicle / Rail Passenger Train – Revenue Service	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
10	23	MTA New York City Transit	Person	Limited Resources
10	23	Washington Metropolitan Area Transit Authority	Non-Rail Transit Vehicle	Limited Resources
10	23	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
10	23	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
10	23	Los Angeles County Metropolitan Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
10	24	Port Authority of Allegheny County	Non Transit Motor Vehicle (POV)	Limited Resources
10	25	San Diego Metropolitan Transit System	Non Transit Motor Vehicle (POV)	Limited Resources
10	25	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
10	26	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV) / Person	Limited Resources
10	27	M-1 Rail	Non Transit Motor Vehicle (POV)	Limited Resources
10	28	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
10	29	Chicago Transit Authority	Person	Limited Resources
10	30	Los Angeles County Metropolitan Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
10	31	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
10	31	Valley Metro Rail, Inc.	Non Transit Motor Vehicle (POV)	Limited Resources
10	31	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
10	31	MTA New York City Transit	Person	Limited Resources
10	31	City and County of San Francisco	Person	Limited Resources
11	1	Metro Transit	Person	Limited Resources
11	2	Chicago Transit Authority	Rail Transit Vehicle / Rail Passenger Train – Not in Revenue Service	Limited Resources
11	2	MTA New York City Transit	Person	Limited Resources
11	2	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
11	2	Los Angeles County Metropolitan Transportation Authority	Person	Limited Resources
11	3	Dallas Area Rapid Transit	Person	Limited Resources
11	4	Sacramento Regional Transit District	Non Transit Motor Vehicle (POV)	Limited Resources
11	5	MTA New York City Transit	Person	Limited Resources
11	5	Massachusetts Bay Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
11	6	City and County of San Francisco	Other	Limited Resources
11	6	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
11	7	MTA New York City Transit	Person	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
11	7	Southwest Ohio Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
11	7	M-1 Rail	Non Transit Motor Vehicle (POV)	Limited Resources
11	8	Tri-County Metropolitan Transportation District of Oregon	Person	Limited Resources
11	8	MTA New York City Transit	Person	Limited Resources
11	10	City of Portland	Non Transit Motor Vehicle (POV)	Limited Resources
11	11	New Jersey Transit Corporation	Non Transit Motor Vehicle (POV)	Limited Resources
11	12	City and County of San Francisco	Person	Limited Resources
11	12	Valley Metro Rail, Inc.	Non Transit Motor Vehicle (POV)	Limited Resources
11	12	New Orleans Regional Transit Authority	Rail Transit Vehicle / Rail Passenger Train – Revenue Service	Limited Resources
11	12	Sacramento Regional Transit District	Non Transit Motor Vehicle (POV)	Limited Resources
11	12	Central Puget Sound Regional Transit Authority	Person	Limited Resources
11	13	City of Portland	Non Transit Motor Vehicle (POV)	Limited Resources
11	13	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
11	13	Chicago Transit Authority	Person	Limited Resources
11	13	West Virginia University – Morgantown Personal Rapid Transit	Rail Transit Vehicle – Rail Transit Maintenance or Service Vehicle on Rail Fixed Guideway	Limited Resources
11	14	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
11	14	Utah Transit Authority	Person	Limited Resources
11	15	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
11	16	M-1 Rail	Non Transit Motor Vehicle (POV)	Limited Resources
11	18	Valley Metro Rail, Inc.	Person	Limited Resources
11	18	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
11	19	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
11	20	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
11	20	San Diego Metropolitan Transit System	Person	Limited Resources
11	20	Valley Metro Rail, Inc.	Person	Limited Resources
11	20	Sacramento Regional Transit District	Non Transit Motor Vehicle (POV)	Limited Resources
11	21	Valley Metro Rail, Inc.	Person	Limited Resources
11	22	New Jersey Transit Corporation	Non Transit Motor Vehicle (POV)	Limited Resources
11	22	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
11	22	Sacramento Regional Transit District	Non Transit Motor Vehicle (POV)	Limited Resources
11	23	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
11	23	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
11	23	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
11	23	Sacramento Regional Transit District	Person	Limited Resources
11	25	Chicago Transit Authority	Rail Transit Vehicle / Rail Passenger Train – Not in Revenue Service	Limited Resources
11	25	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
11	26	Tri-County Metropolitan Transportation District of Oregon	Non Transit Motor Vehicle (POV)	Limited Resources
11	26	MTA New York City Transit	Person	Limited Resources
11	27	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
11	27	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
11	27	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
11	28	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
11	30	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
12	1	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources
12	1	Valley Metro Rail, Inc.	Non Transit Motor Vehicle (POV)	Limited Resources
12	1	Tri-County Metropolitan Transportation District of Oregon	Non Transit Motor Vehicle (POV)	Limited Resources
12	2	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
12	2	MTA New York City Transit	Person	Limited Resources
12	2	Santa Clara Valley Transportation Authority	Person	Limited Resources
12	2	Central Puget Sound Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
12	3	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
12	3	Massachusetts Bay Transportation Authority	Person	Limited Resources
12	3	Central Puget Sound Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
12	5	Southeastern Pennsylvania Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
12	5	City and County of San Francisco	Person	Limited Resources
12	5	Valley Metro Rail, Inc.	Non Transit Motor Vehicle (POV)	Limited Resources
12	6	The Greater Cleveland Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
12	6	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
12	7	MTA New York City Transit	Person	Limited Resources
12	8	MTA New York City Transit	Person	Limited Resources
12	8	Massachusetts Bay Transportation Authority	Rail Transit Vehicle – Rail Transit Maintenance or Service Vehicle on Rail Fixed Guideway	Limited Resources
12	9	MTA New York City Transit	Person	Limited Resources
12	9	Los Angeles County Metropolitan Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
12	9	New Jersey Transit Corporation	Non Transit Motor Vehicle (POV)	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
12	9	Valley Metro Rail, Inc.	Non Transit Motor Vehicle (POV)	Limited Resources
12	10	Metropolitan Transit Authority of Harris County, Texas	Person	Limited Resources
12	11	Tri-County Metropolitan Transportation District of Oregon	Non Transit Motor Vehicle (POV)	Limited Resources
12	11	MTA New York City Transit	Person	Limited Resources
12	11	Massachusetts Bay Transportation Authority	Person	Limited Resources
12	11	Los Angeles County Metropolitan Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
12	12	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
12	12	MTA New York City Transit	Person	Limited Resources
12	12	New Jersey Transit Corporation	Person	Limited Resources
12	12	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
12	13	MTA New York City Transit	Person	Limited Resources
12	14	San Diego Metropolitan Transit System	Non Transit Motor Vehicle (POV)	Limited Resources
12	14	North County Transit District	Person	Limited Resources
12	17	Southeastern Pennsylvania Transportation Authority	Person	Limited Resources
12	17	Metro Transit	Non Transit Motor Vehicle (POV)	Limited Resources
12	17	Utah Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
12	17	Los Angeles County Metropolitan Transportation Authority	Non Transit Motor Vehicle (POV)	Limited Resources
12	18	MTA New York City Transit	Person	Limited Resources
12	18	Southeastern Pennsylvania Transportation Authority	Person	Limited Resources
12	19	City and County of San Francisco	Other	Limited Resources
12	19	MTA New York City Transit	Person	Limited Resources
12	19	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
12	20	Denver Regional Transportation District	Person	Limited Resources
12	20	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
12	21	Tri-County Metropolitan Transportation District of Oregon	Person	Limited Resources
12	21	MTA New York City Transit	Person	Limited Resources
12	21	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
12	21	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
12	22	MTA New York City Transit	Person	Limited Resources
12	22	Valley Metro Rail, Inc.	Non Transit Motor Vehicle (POV)	Limited Resources
12	22	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources

APPENDIX C: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(5) (continued)

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
12	23	City and County of San Francisco	Rail Transit Vehicle / Rail Passenger Train – Revenue Service	Limited Resources
12	23	MTA New York City Transit	Person	Limited Resources
12	23	Tri-County Metropolitan Transportation District of Oregon	Other	Limited Resources
12	23	Denver Regional Transportation District	Non Transit Motor Vehicle (POV)	Limited Resources
12	24	New Jersey Transit Corporation	Person	Limited Resources
12	24	MTA New York City Transit	Person	Limited Resources
12	24	Central Puget Sound Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
12	24	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
12	26	MTA New York City Transit	Person	Limited Resources
12	27	Southwest Ohio Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
12	27	Metropolitan Transit Authority of Harris County, Texas	Non Transit Motor Vehicle (POV)	Limited Resources
12	27	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
12	29	MTA New York City Transit	Person	Limited Resources
12	29	New Orleans Regional Transit Authority	Non Transit Motor Vehicle (POV)	Limited Resources
12	30	San Diego Metropolitan Transit System	Non Transit Motor Vehicle (POV)	Limited Resources
12	31	MTA New York City Transit	Person	Limited Resources
12	31	City and County of San Francisco	Non Transit Motor Vehicle (POV)	Limited Resources

Pipeline

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
1	21	SUMMERFIELD, OHIO	Pipeline Rupture / Explosion/ Fireball / Natural Gas	Limited Resources
2	15	MOORHEAD, MINNESOTA	Pipeline Leak Following Collision / Natural Gas	Limited Resources
2	19	MINNEAPOLIS, MINNESOTA	Leak / House Explosion / Natural Gas	Limited Resources
4	9	DURHAM, NORTH CAROLINA	Pipeline Rupture / Explosion / Fire / Natural Gas	Limited Resources
5	20	JEFFERSONVILLE, INDIANA	Leak / House Explosion / Natural Gas	Limited Resources
7	4	ROSWELL, NEW MEXICO	Leak / House Explosion / Natural Gas	Limited Resources
7	15	MURRIETA, CALIFORNIA	Pipeline Rupture / House Explosion / Natural Gas	Limited Resources
8	25	COLUMBIA, MARYLAND	Leak / Building Explosion / Natural Gas	Limited Resources
9	6	LEXINGTON, MISSOURI	Pipeline Rupture Following Collision / Natural Gas	Limited Resources
10	29	EDINBURG, NORTH DAKOTA	Pipeline Leak / Crude Oil	Limited Resources
10	30	BRUNSWICK, MAINE	Pipeline Rupture / Natural Gas	Limited Resources
12	20	PHILADELPHIA, PENNSYLVANIA	House Explosion / Natural Gas	Limited Resources
12	26	WASHINGTON, DC	Pipeline Breach / Natural Gas	Limited Resources

Hazardous Materials

Month	Day	Accident Location	Accident Circumstances	Reason Not Investigated
1	1	HOUSTON, TEXAS	Union Pacific Railroad train derailed 35 railcars, some of which contained hazardous materials of unknown type	Limited Resources
1	1	BLOUNTS CREEK, NORTH CAROLINA	Norfolk Southern Railway train derailed 11 molten sulfur tank cars - small fire	Limited Resources
1	7	BARTOW, GEORGIA	Norfolk Southern Railway derailed 16 hazmat cars containing four different hazardous materials. Tank cars containing hydrogen peroxide and hydrochloric acid tank cars were reportedly leaking	Limited Resources
1	20	JACKSONVILLE, FLORIDA	20 CSX freight cars derailed, two ethanol cars fell into the Broward River, but none were breached	Limited Resources
1	20	OLIVER SPRINGS, TENNESSEE	Tractor trailer carrying environmentally hazardous substance overturned and released material into wetlands as part of a multivehicle crash. One motorist died, truck driver was injured	Limited Resources
2	22	MARLBORO, NEW JERSEY	Cargo tank motor vehicle overturned and spilled 3,000 gallons of gasoline, shutting down Route 9	Limited Resources
3	2	CARRINGTON, NORTH DAKOTA	Release of anhydrous ammonia from cracks in tank shells of two new DOT-112J5001 tank cars	Limited Resources
3	9	NEWARK, NEW JERSEY	Air Transat B-737 flight diverted to Newark for emergency landing due to fire in cargo compartment	Limited Resources
3	17	LOS ANGELES, CALIFORNIA	Highway cargo tank carrying 9,000 of gasoline began leaking, ignited, and exploded into flames	Limited Resources
3	27	CAMBEN, ARKANSAS	Cargo tank trailer carrying ammonium nitrate caught fire and exploded, killing the driver	Limited Resources
3	30	LYNNDYL, UTAH	Union Pacific Railroad train derailed 24 railcars. Responders detonated 11 tank cars carrying propane and biodiesel to inert the material	Limited Resources
5	3	CARBON COUNTY, UTAH	Highway double cargo tank rollover spilled 5,000 gallons of crude oil	Limited Resources
5	5	STANTON, TEXAS	Cargo tank rolled over and spilled 4,000 gallons of diesel fuel	Limited Resources
5	7	BUFFALO, KANSAS	Argon from two DOT-113 tank cars released from Union Pacific Railroad train derailment	Limited Resources
5	10	HOUSTON, TEXAS	Highway cargo tank structural failure resulted in the release of 45,000 pounds of corrosive irritant	Limited Resources
6	1	SANTA CLARA, CALIFORNIA	Hydrogen tube trailer leaked and caught fire while being filled at Air Products facility - two trailers destroyed	Limited Resources
7	25	GREENSBORO, NORTH CAROLINA	Train derailment of nine tank cars containing ethanol	Limited Resources
9	6	LEXINGTON, MISSOURI	Truck left roadway and hit gas regulator station. Gas service to town was shut off, local hospital was evacuated, and businesses were closed	Limited Resources
9	10	DUPO, ILLINOIS	Union Pacific Railroad train derailed 14 railcars in a rail yard with one breached tank car containing methyl isobutyl ketone on fire	Limited Resources
9	23	FENTON, NEW YORKS	Compressed natural gas leak from tube trailer because of tractor-trailer rollover accident	Limited Resources
11	8	DENTON, TEXAS	Delivery truck hauling propane gas tanks crashed causing fire with three fatalities and three injuries	Limited Resources
12	23	MARTINSBURG, WEST VIRGINIA	Improper offloading of truck cargo tank results in release of chlorine gas causing 2 injuries and a 1.5-mile evacuation	Limited Resources

Appendix D: Report of 2019 Investigations to Comply with 49 U.S.C. 1116(c)(6)²

Mode	Reportable Investigations
AVIATION	None to Report
HIGHWAY	None to Report
MARINE	None to Report
RAILROAD	None to Report
PIPELINE	None to Report
HAZARDOUS MATERIALS	None to Report

² 49 U.S.C. 1116(c)(6) "a list of ongoing investigations that have exceeded the expected time allotted for completion by Board order and an explanation for the additional time required to complete each such investigation."