DEPARTMENT OF TRANSPORTATION

Federal Railroad Administration

Research, Engineering and Development Advisory Committee

AGENCY: Federal Aviation Administration, DOT.

ACTION: Notice of Meeting. Pursuant to section 10(A) (2) of the Federal Advisory Committee Act (Pub. L. 92–463; 5 U.S.C. App. 2), notice is hereby given of a meeting of the FAA Research, Engineering and Development (R,E&D) Advisory Committee.

Name: Research, Engineering & Development Advisory Committee.

Time and Date: April 24—8:30 a.m. to 4:00 p.m.

Place: Federal Aviation Administration, 800 Independence Avenue SW.—Round Room (10th Floor), Washington, DC 20591.

Purpose: The meeting agenda will include receiving from the Committee guidance for FAA’s research and development investments in the areas of air traffic services, airports, aircraft safety, human factors and environment and energy. Attendance is open to the interested public but seating is limited. Persons wishing to attend the meeting or obtain information should contact Gloria Dunderman at (202) 267–8937 or gloria.dunderman@faa.gov. Members of the public may present a written statement to the Committee at any time.

Issued in Washington, DC on March 8, 2013.

Catherine A. Bigelow,
Manager, Research and Development Management Division.

DEPARTMENT OF TRANSPORTATION

Federal Railroad Administration

[Docket No. FRA 2013–0002–N–5]

Proposed Agency Information Collection Activities; Comment Request

AGENCY: Federal Railroad Administration (FRA), DOT.

ACTION: Notice and Request for Comments.

SUMMARY: In compliance with the Paperwork Reduction Act of 1995, this notice announces that the Information Collection Request (ICR) abstracted below has been forwarded to the Office of Management and Budget (OMB) for review and comment. The ICR describes the nature of the information collection and their expected burden. The Federal Register notice with a 60-day comment period soliciting comments on the following collection of information was published on December 31, 2012.

DATES: Comments must be submitted on or before April 15, 2013.

FOR FURTHER INFORMATION CONTACT: Mr. Robert Brogan, Office of Safety, Planning and Evaluation Division, RRS–21, Federal Railroad Administration, 1200 New Jersey Ave. SE., Mail Stop 17, Washington, DC 20590 (telephone: (202) 493–6132); or Ms. Kimberly Toone, Office of Information Technology, RAD–20, Federal Railroad Administration, 1200 New Jersey Ave. SE., Mail Stop 35, Washington, DC 20590 (telephone: (202) 493–6132). (These telephone numbers are not toll-free.)


Before OMB decides whether to approve a proposed collection of information, it must provide 30 days for public comment. 44 U.S.C. 3507(b); 5 CFR 1320.12(d). Federal law requires OMB to approve, disapprove, or prescribe a new collection of information after reviewing the information collection package. The proposed survey is designed to provide this information, first as a baseline, and, in four
DEPARTMENT OF TRANSPORTATION

Federal Railroad Administration

Safety Advisory 2013–02; Low-Speed, Wheel-Climb Derailments of Passenger Equipment With “Stiff” Suspension Systems

AGENCY: Federal Railroad Administration (FRA), Department of Transportation (DOT).

ACTION: Notice of Safety Advisory.

SUMMARY: FRA is issuing Safety Advisory 2013–02 to alert railroads and other industry members about low-speed, wheel-climb derailments of certain passenger equipment designs having “stiff” suspension systems. These derailments have occurred when such equipment was negotiating track with a high degree of curvature and croslevel variations (commonly referred to as “track warp”) that were still within the limits set forth in FRA’s Track Safety Standards. The findings from the derailment investigations conducted by FRA and the respective railroads highlight the need to ensure that passenger equipment suspension systems are suitable for more-demanding track conditions. To avoid similar low-speed, wheel-climb derailments, this notice recommends that railroads and other industry members evaluate the trackworthiness of certain passenger equipment to determine whether the suspension systems meet track-equalization industry standards, prevent wheel climb, and control static wheel-load distribution under the conditions and within the limits described in the notice; and take appropriate action to address the derailment tendency, if any, of the evaluated equipment. In order to minimize the risk of suspension spring failure, this notice also recommends that railroads and other industry members assessing the fatigue life of suspension springs and their corresponding maintenance intervals use a fatigue-evaluation load equal to the equipment’s full-capacity loading conditions.

FOR FURTHER INFORMATION CONTACT: Michelle Muhlander, Deputy Regional Administrator, Region 1, Office of Railroad Safety, FRA, 55 Broadway Street, Cambridge, MA 02142, telephone (617) 494–2630; Gary Fairbanks, Staff Director, Motive Power and Equipment Division, Office of Railroad Safety, FRA, 1200 New Jersey Avenue SE., Washington, DC 20590, telephone (202) 493–6322; or Anna Nassif Winkle, Trial Attorney, Office of Chief Counsel, FRA, 1200 New Jersey Avenue SE., Washington, DC 20590, telephone (202) 493–6166.

SUPPLEMENTARY INFORMATION:

Background

In response to increased performance objectives, such as higher operating speeds and increased passenger capacity, passenger equipment suspension systems are becoming stiffer and more sophisticated, and may be approaching design limits. In many cases, engineering tradeoffs are made to meet performance objectives and satisfy specific system constraints (e.g., clearances for existing tunnels or other infrastructure). An example is equipment using non-linear vertical springs, which provide variable stiffness as the vehicle load increases from AW0 (i.e., empty vehicle ready to run) to AW3 (i.e., vehicle with full-seated and full-standee load). Such tradeoffs have resulted in certain newer designs of equipment being operated over more-demanding track geometry conditions with lower margins of safety, from a derailment perspective, than older equipment designs. The static weight distribution and marginal wheel-load equalization that are characteristic of such suspension system designs can lead to wheel unloading. This is of particular concern because FRA has determined that the combination of high, lateral curving forces and wheel unloading is a major contributing factor to low-speed, wheel-climb derailment tendency. Similar wheel-climb derailments are not as likely to occur at higher speeds on higher classes of track because track curvature is generally less sharp and the safety limits on track-warp variations on such track are more stringent. See Title 49 Code of Federal Regulations (CFR) 213.63 and 213.331. Although the derailments prompting issuance of this safety advisory all occurred on Class 1 track at speeds of 15 mph or less, and did not result in any injuries, the consequences could have been much worse. For example, one of the derailments resulted in the derailed train fouling the adjacent track on which a National Railroad Passenger Corporation (Amtrak) Acela Express train was traveling. Had the circumstances been different, a significant collision could have occurred. Thus, the recommendations in this notice are important not only in preventing low-speed, wheel-climb derailments themselves but in preventing what may be more serious consequences of such derailments.

Although Federal regulations require suspension systems on Tier II passenger equipment to reasonably prevent wheel climb and wheel unloading under all loading conditions and at all track speeds (see § 238.427), there is no equivalent requirement for Tier I passenger equipment (see 1Fifteen mph or less. The maximum allowable operating speed for passenger trains on Class 1 track, as defined under 49 CFR 213.9, is 15 mph. All references in this notice to a section or other provision of a regulation are to a section, part, or other provision in 49 CFR.

2Tier II passenger equipment operates at speeds exceeding 125 mph but not exceeding 150 mph, whereas Tier I passenger equipment operates at speeds not exceeding 125 mph. See § 238.5.

3 Tier II passenger equipment operates at speeds exceeding 125 mph but not exceeding 150 mph, whereas Tier I passenger equipment operates at speeds not exceeding 125 mph. See § 238.5.