

Federal Railroad Administration Railroad Safety Advisory Committee

Passenger Safety Working Group: Update

December 2, 2003

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for Safety Standards

Passenger Safety Overview

- Progress to date
- Task force structure
- Issues
- Next steps

Passenger Safety Progress to Date

Task accepted May 20, 2003:

"To review existing passenger safety needs and programs and to recommend consideration of specific actions useful to advance the safety of rail passenger service."

New Passenger Safety Working Group

Passenger Safety Progress to Date

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Working group membership:
AAPRCO, AAR, AAHSTO, Amtrak,
APTA, BLE, BRC, BRS, HSGTA,
NARP, RSI, SMW, STA, TWU, UTU
Associates:
NTSB, FTA
New addition (requested):
BMWE
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Passenger Safety Progress to Date

Working group meetings:

Sept. 9-10 -- Washington, D.C.

Briefings

Initial scoping

Nov. 6-7 – Philadelphia

Reviewed potential issues

Prioritized issues

Established task force structure

Next planned working group meeting: May 11-12 (location TBD)

Passenger Safety Task Task Force Structure

General scope

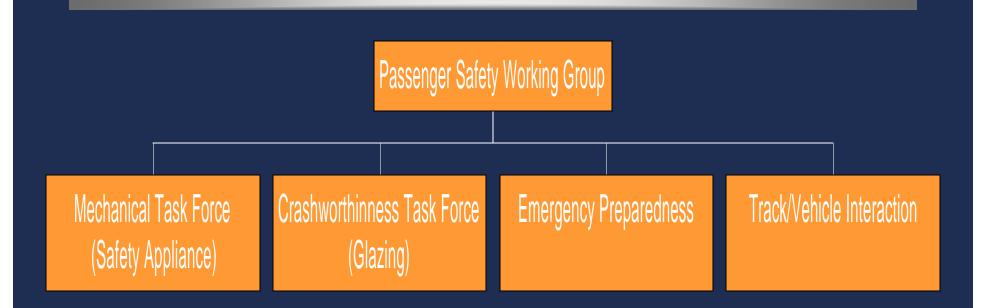
- Loose ends from earlier rulemaking
- New ideas from APTA PRESS effort
- New information from intervening research
- Lessons from experience with the existing rules / fine tuning
- Review of E.O. 20
- NTSB recommendations
- Working group has considered a broad range of ideas

Passenger Safety Task Task Force Structure

- What is useful to consider?
- What is ripe for consideration?
- What can we manage with the resources at hand?

Note: This is in effect a standing working group – do not have to tackle everything at once.

Passenger Safety Task Task Force Structure



Mechanical Task Force

- Safety appliance issues (welding, materials)
- General mechanical (Part 238, etc.)

Mechanical Task Force

- General mechanical (Part 238, etc.) FIRST priority issues
 - Class 1A brake test for 24 hour/day operations
 - Redundant cab signal inspections (236/238)
 - Combine blue card/calendar day inspection records?
 - Inspectability of brake application

Mechanical Task Force

- General mechanical (Part 238, etc.)
 SECOND priority issues
 - Cab ergonomics
 - Baggage car standards (if nec. following Amtrak program)
 - Alerter/deadman issues (equipping, en route failures)

Crashworthiness Task Force

- Crashworthiness of passenger-occupied vehicles
- Glazing

Crashworthiness Task Force

- FIRST priorities:
 - Cab car/MU front end optimization
 - Locomotive engineer seating for cab cars / MUs
 - Horizontal rotating seats
 - Collision post issues, misc.
 - Glazing test criteria revision
 - Tier II glazing
 - Cab side window glazing

Crashworthiness Task Force

- SECOND priorities:
 - Cab car / MU occupant survival issues
 - Rebuilt / remanufactured equipment
 - DMU fuel tanks
 - Auxiliary tanks
 - Side strength
 - Push/pull configuration at speeds >79 mph (limitation?)

Emergency Preparedness Task Force

- FIRST priorities:
 - Illumination, signage, exit path marking
 - Photoluminescent signage durability
 - Marking for rescue access to windows

Emergency Preparedness Task Force

- SECOND priorities:
 - Emergency communications
 - Emergency lighting (backup power)
 - Egress capacity, exit types & numbers
 - Rescue access
 - Medical emergencies
 - Passenger manifest accountability

Track/Vehicle Interaction Task Force

- Vehicle centered issues (e.g., truck stabilization, flange angle)
- Instrumented wheelset tests for 90-125 mph service – necessary?
- Consolidation of Part 213, 238 requirements
- High speed Track Standards revisions (geometry)
- Cant deficiency implementation

Passenger Safety Task Next Steps

- Task forces are forming
- Initial meetings early '04
- Report initial findings, milestones to full Working Group May '04

Passenger Safety Task Next Steps

Options for task force recommendations include

- No action
- Initiate rulemaking
- Recommend industry standard (voluntary implementation or incorp. by ref.)
- Further research
- Recommendations to 3rd parties

Passenger Safety Task Next Steps

- Additional issues may be actively considered when—
 - research is complete and;
 - the group is ready
- POSSIBLE FUTURE TASK FORCES—
 - General passenger safety
 - Fire safety