

PASSENGER SAFETY WORKING GROUP UPDATE to the
28th Meeting of the RSAC MAIN BODY
Washington Plaza Hotel
Washington D.C.
February 22, 2006

PASSENGER SAFETY TRACK VEHICLE INTERACTION TASK FORCE



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Issues

- **Vehicle Track Interaction (VTI) Limits**
- **Vehicle Qualification (VQ)**
- **Monitoring Requirements**
- **Review of High Speed Track Geometry Limits**
- **Track Geometry and High Cant Deficiency**
- **213 / 238 Language Consolidation**
- **Elimination of Class 9**

Issues

- **Vehicle Track Interaction (VTI) Limits**
 - Wheel-Rail Force Criteria
 - Carbody and Truck Acceleration

Issues

- **Vehicle Qualification (VQ)**
 - New Equipment and Qualified Equipment
 - Route
 - Simulations
 - Lean Test
 - Carbody and Truck Acceleration
 - Instrumented Wheelset (IWS)
 - Submittals and Approvals

Issues

- **Monitoring Requirements**
 - Track Geometry Measurement (TGMS)
 - Carbody and Truck Acceleration
 - IWS Annual Test
 - Reporting

ITEM G4 – Reconsider Track Geometry Limits

- Review of High Speed Track Geometry Limits *and*,
- Track Geometry and High Cant Deficiency
- ❖ *Following is Under Analysis by Volpe/FRA*
 - *Combined Defect Limits*
 - *Short Warp Limit*
 - *Relationship - Track Geometry and Cant Deficiency*
 - *Simulation – MCAT*

Issues

- **213 / 238 Language Consolidation**
 - Remove Duplicate Requirements in 238
- **Elimination of Class 9**
 - Reduce Max. Speed Class 8 to 150 mph

Item	Issue	Tech. Resp.	Tech Work	TF AiP	Draft Text	TF Rec	WG App	Inform APTA
G1-1	Wheel Flange Angle	APTA	🕒					
G1-2	Wheel Conicity	APTA	🕒					
G1-3	Truck Equalization	APTA	🕒					
G2	VQT - IWS	TSG	✓	✓	🕒			
	Route	TSG	✓	✓	🕒			
	Simulations (Route, Chapter XI)	TSG	✓	✓	🕒			
	Accerometer	TSG	✓	✓	🕒			
	Submittals/Approval	TSG	🕒		🕒			
G3-1	213/238 Consolidation	TF	✓	✓	✓	🕒		
G3-2	Carbody Acceleration	TSG	✓	✓	🕒			
	Truck Acceleration	TSG	✓	✓	🕒			to do
	In-Service Monitoring (IWS, ACC)	TSG	✓	✓	🕒			
	In-Service Monitoring (TGMS)		🕒		🕒			
	Reporting	TSG			🕒			
G3-3	NAL	TSG	✓	✓	🕒			to do
	SWVL ratio	TSG	✓	✓	🕒			to do
	Review All W/R Forces	TSG	✓	✓	🕒			to do
	Review Track Geometry Limits	TSG	🕒					
G4	Track Geometry - Vehicle Performance	TSG	🕒					
	Short Warp Limits	TSG	🕒					
	Track Geometry and Cant Deficiency	TSG	🕒					
	Simulation - Analogous to AAR Chapter XI	TSG	🕒					
	Cant Deficiency Regulatory Process	TSG	✓	✓	🕒			
G5	Lean Test	TSG	✓	✓	🕒			
	Elimination Class 9	TF	✓	✓	✓	🕒		
G6	Reduce Class 8 to 150 mph	TF	✓	✓	✓	🕒		

✓ Work Completed

🕒 Work in Progress

📅

Depends on Other Work

END