FRA's Engineering and Technology (ET) Division (December 2024)

Novel Technology

- Alternative fuels safety hazard/safety assessment
- SBCTA ZEMU hydrogen passenger rail project
- Battery and dual fuel project support
- Joint Policy (Shared Use) projects
- High-speed rail support (BLW, Acela, CA-HSR)
- OST HASS and Volpe partnership
- International outreach: (Momentum Project)
- Maglev and Hyperloop support

Automated Track Inspection Program

ATIP Operations	2024 (Thru 11/30)
Miles Surveyed	188,146
Total Exceptions	8,452
Safety Critical Exc.	2,203

(ATIP contracts awarded to ENSCO and Tetra Tech)



U.S. Department of Transportation Federal Railroad Administration

Technology and Automation

- Change detection (AI)
- Machine vision/Lidar
- TDS data analytics
- G&W/Parallel Systems
- GPS interference w/OST
- ATIP advancements
- NETT Council support
- ATIP support for HRA

- R&D support for new tech
- Position, Navigation and Timing (PNT) comms support
- High-speed noise rule
- Labor and industry outreach
- Rail PNT pilot project
- Cybersecurity support

Washington, DC Union Station (Authority Having Jurisdiction)

- Transition from USRC to Amtrak following eminent domain ruling (this doesn't impact the AHJ role)
- Subbasement bridge project
- Claytor Concourse modernization completion
- Code compliance inspections for numerous new vendors