

FRA's Engineering, Technology and Automation (ETA) Division (December 2025)

Novel Technology

- Automated Transportation Systems (Parallel Systems, Intramotev)
- Tech Rule Project Management
- Joint Policy (Shared Use) projects
- High-speed rail support (BLW, CA-HSR Acela)
- Advanced Locomotive Propulsion Tech safety hazard/safety assessment
- Maglev and Hyperloop support

Automated Track Inspection Program

*ATIP Contractors: ENSCO and Tetra Tech – vehicle Operations
Strongbridge – ATIP Track Data Systems*

ATIP Operations	2023	2024	2025 (YTD 11/30)
Miles Surveyed	181,017	207,005	222,461
Geo. Exceptions	8,606	9,340	8,863
Safety Critical Exc.	1,595	2,471	1,752

Technology and Automation

- Change detection (AI)
- Machine vision/Lidar
- TDS data analytics
- Parallel/Intramotev
- GPS interference w/OST
- ATIP advancements
- NETT Council support
- ATIP support ATI waivers
- R&D support for new tech
- Position, Navigation and Timing (PNT) comms support
- High-speed noise rule
- Labor and industry outreach
- Cybersecurity support
- UP – ITO Support

Washington, DC Union Station (AHJ)

- Claytor Concourse & Subbasement bridge projects
- Code compliance inspections for numerous new vendors

Certificates of occupancy issued

Fiscal Year	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Total # Issued
2024	2	1	0	4	7
2025	2	2	0	5	9