

High-speed and Intercity Rail Safety Solutions



Whether your needs include upgrading track for higher operating speeds, evaluating new or existing vehicles for high-speed service, or navigating the Federal Railroad Administration's (FRA) approval process, ENSCO's unmatched expertise in vehicle/track interaction, track inspection, vehicle evaluation, data management, and FRA Track Safety Standards will provide a solution.



ENSCO Vehicle/Track Interaction Solutions include a full range of testing, troubleshooting and analysis services with a focus on:

- Consulting services for upgrading lines to higher speed
- Testing/consulting for high cant deficiency operations, curving performance and wheel unloading
- Wheel/rail profile optimization
- Vehicle/track dynamic modeling
- Vehicle stability and ride quality evaluation
- Vehicle performance/acceptance testing
- Derailment investigations and prevention, including low-speed flange climb scenarios
- Cab signaling system evaluations



ENSCO Track Inspection Services are vital for evaluating rail corridors to determine improvements necessary for higher speeds and assessment of maintenance to ensure safe operations.



ENSCO Vehicle Testing and Evaluation Services provide crucial data and analysis to verify system performance and safe operation for waiver and qualification approvals.



ENSCO Data Management Solutions provide railroad management, engineering and maintenance-of-way personnel with a window into the condition of infrastructure necessary for maintenance and improvement.



ENSCO's knowledge of FRA Track Safety Standards will facilitate your qualification and approval process.

Did You Know ...

ENSCO has played an important role in the implementation of the high-speed operations of:

- Amtrak Acela Express
- Amtrak/Maryland Transit Administration High-Horsepower Locomotive

ENSCO has supported evaluation and approval of intercity service speeds for:

- Maryland Transit Administration MARC III Car
- Amtrak Talgo trainsets on the Pacific Northwest Rail Corridor
- North Carolina Heritage Cars
- California Metrolink Multi-Level Car
- New Jersey Transit ALP-46 and PL42-AC locomotives as well as its Comet V and Multi-Level Commuter Car
- Amtrak AEM-7, P32 and P42 locomotives as well as its Horizon, Amfleet and Metroliner Cab Cars
- VIA Rail modified F-40 locomotives

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