

Highlights of GAO-19-693T, a testimony before the Committee on Commerce, Science, and Transportation, U.S. Senate

Why GAO Did This Study

Forty-two railroads are currently subject to the statutory mandate to implement PTC, a communications-based system designed to automatically slow or stop a train that is not being operated safely. Railroads were required to implement PTC by December 31, 2018, but would receive extensions up to December 31, 2020, if specific statutory requirements were met.

GAO was asked to review railroads' PTC implementation progress. This statement discusses (1) railroads' implementation progress and any related implementation challenges and (2) FRA's plans for overseeing railroads' implementation. GAO analyzed railroads' most recent quarterly reports covering activities through March 31, 2019; received responses from all 42 railroads on a brief questionnaire; and interviewed officials from FRA and 8 railroads, selected to include variation in implementation status and type of railroad, among other criteria.

What GAO Recommends

In March 2018, GAO recommended FRA take steps to systematically communicate information to railroads and to use a risk-based approach to prioritize agency resources and workload. FRA concurred with these recommendations. FRA has taken actions to systematically communicate information to railroads. GAO will continue to monitor FRA actions with regard to allocating agency resources to oversee PTC.

View GAO-19-693T. For more information, contact Susan Fleming at (202) 512-2834 or flemings@gao.gov.

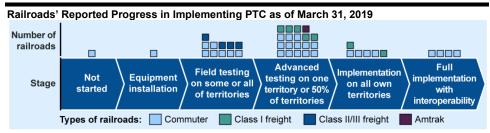
July 31, 2019

POSITIVE TRAIN CONTROL

As Implementation Progresses, Focus Turns to the Complexities of Achieving System Interoperability

What GAO Found

Amtrak, commuter railroads, and freight railroads continue to make progress implementing positive train control (PTC), but significant work remains to achieve interoperability among the railroads' individual PTC systems. Since the end of 2018, many railroads reported making progress on testing and implementation of their own PTC systems. Four railroads reported reaching full implementation as of March 31, 2019, the same number in this stage at the end of 2018. However, many railroads remained in earlier stages of implementation, such as the 11 railroads that reported being in field testing. Nearly all railroads plan to complete full PTC implementation in the last quarter of 2020.



Source: GAO analysis of railroads' progress reports to the Federal Railroad Administration. | GAO-19-693T

Full implementation with interoperability is achieved when the PTC system on the locomotive of a "tenant" railroad and the PTC system of a "host" railroad whose track is being used can successfully communicate, allowing uninterrupted movements over property boundaries. As of March 31, 2019, 11 of the 31 host railroads that must have interoperable PTC systems reported that they had achieved interoperability with at least 1 of their tenant railroads. Collectively, 38 of the 227 unique host-tenant relationships that require interoperability have been completed (17 percent), according to the Federal Railroad Administration (FRA). Most railroads reported to GAO that vendor and software issues were currently major or moderate challenges for PTC implementation. Over half of railroads also reported that interoperability was a major or moderate challenge, and can be complicated by software issues and coordinating host and tenant schedules, among other issues. For example, one railroad said that certain software functionality still had to be developed, tested, and implemented to address reliability issues and facilitate interoperability.

FRA continues to provide assistance and support to railroads on PTC interoperabilty and the testing process, but workload challenges for the agency persist. FRA will continue to face a substantial workload through 2020 as it oversees railroads' PTC implementation and reviews documents, including lengthy safety plans required for railroads to obtain PTC system certification. While FRA officials have described supporting interoperability and testing as areas of focus, they have not demonstrated how, within these broad areas, they are monitoring risk and prioritizing resources, as GAO recommended in March 2018. GAO continues to see value in FRA developing a risk-based approach to allocate its resources to oversee PTC.

_ United States Government Accountability Office