

Annual PTC
Progress
Report

[2015]

[PCJPB]

[FRA-2010-051-0047]

The Annual Positive Train Control (PTC) Progress Report is due by March 31st of each year until full PTC system implementation is complete. The Annual PTC Progress Report must cover the railroad's implementation efforts and progress from the directly previous calendar year, and must be submitted electronically to the Federal Railroad Administration (FRA) via the FRA Secure Information Repository at <https://sir.fra.dot.gov>.

Name of Railroad or Entity Subject to 49 U.S.C. § 20157(a): PCJPB.

Railroad Code: PCMZ.

Annual PTC Implementation Progress Report for: 2015.

PTCIP Version Number of File with FRA (basis for goals stated): Revision 6

Submission Date: September 24, 2014

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1. Summary

Please provide a narrative summary of overall PTC implementation progress during the preceding calendar year (January 1 to December 31):

The PCMZ and its System Integrator, Parsons Transportation Group have completed the construction phase of the project and have entered into the testing phase. Testing is being performed at multiple levels including lab, hi-rail and dynamic test train. We are actively engaged with FRA for approvals of prerequisite document for validation and verification activities, brake testing and onboard test plans.

Category	Quantity Installed During Calendar Year	PTCIP Year End Goal (If Applicable)	Cumulative Quantity Installed at End of Calendar Year	Total Quantity Required for PTC Implementation
Locomotives Fully Equipped	Click here to enter quantity.	67	67	67
Installation/Track Segments Completed	Click here to enter quantity.	3	3 (one subdivision)	3 (one subdivision)
Radio Towers Fully Installed and Equipped	Click here to enter quantity.	14	14	14
Employees Trained	Click here to enter quantity.	Click here to enter quantity.	Click here to enter quantity.	Click here to enter quantity.
Route Miles In Testing or Revenue Service Demonstration	Click here to enter quantity (in miles).	52	52	52
Route Miles in PTC Operation	Click here to enter quantity (in miles).	52	0	0

2. Update on Spectrum Acquisition

Required content:

- The amount of spectrum acquired and available for use during the applicable calendar year and the cumulative amount acquired and available for use at the end of the applicable calendar year, as compared to the amount the railroad stated would be acquired and available for use by the end of that calendar year and in total for PTC implementation, in the applicable revised PTCIP, as amended
- The basis for how the railroad is determining that the acquired spectrum is available for use by PTC radios (e.g., ensuring non-interference with other radios)

Spectrum Area or Location (E.g., county)	Spectrum Acquired and Available for Use (Owned/Leased) During Calendar Year	Cumulative Amount of Spectrum Acquired and Available for Use (Owned/Leased) at End of Calendar Year	PTCIP Year End Goal for Spectrum Acquired and Available for Use	Total Spectrum Required for PTC Implementation, as Reported in PTCIP
Spectrum Coverage Area or Location†: Santa Clara, San Mateo, and San Francisco counties.	Leased.	15 and 1 common channels.	15 and 1 common channels.	15 and 1 common channels

†Note: To add rows for additional spectrum areas or locations, click on the blue “+” symbol at the bottom right-hand corner. Please be sure to first click anywhere inside the table to activate this function.

If this function is unavailable for your document, please manually add additional rows.

Please provide any additional narrative for Spectrum Acquisition below:

N/A

3. Quantity Update on Hardware Installation

Required content:

- Separated by each major hardware category and subcategory identified below, the amount of PTC hardware installed during the applicable calendar year and the cumulative quantity installed at the end of the applicable calendar year, as compared to the amount the railroad stated would be installed by the end of that calendar year and in total for PTC implementation, in the applicable revised PTCIP, as amended

3.1. Locomotive Status

Category / Installation Feature	Quantity Installed During Calendar Year	PTCIP Year End Goal	Cumulative Quantity Installed at End of Calendar Year	Total Required for PTC Implementation, as Reported in PTCIP
Locomotive (Apparatus)¹				
On-board Computers (e.g., Train Management Computer)	Click here to enter quantity.	67	67	67
Software For Train Management and other applications	Click here to enter quantity.	67	Dedicated test train	67
PTC Displays	Click here to enter quantity.	67	67	67
Event Recorders	Click here to enter quantity.	67	67	67
Onboard Antennas and/or Transponder Readers	Click here to enter quantity.	67	67	67
GPS Receivers	Click here to enter quantity.	67	67	67
Locomotive Radios – Primary Communications (e.g., 220 MHz radios)	Click here to enter quantity.	67	67	67

¹ Railroads may elect to add categories or subcategories if more detail is desired.

Secondary Communications (e.g., cell or Wi-Fi communications) Equipment	Click here to enter quantity.	67	67	67
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Please provide any additional narrative for Locomotive Status below. If any of the information called for in Section 3.1 is unavailable to the railroad at the time it is completing and submitting this form, please insert "TBD" in the appropriate field and/or use this comment box to explain when such information will be available and when the railroad expects to submit it to FRA.

N/A

3.2. Infrastructure/Back Office Status

Category / Installation Feature	Completed During Calendar Year	PTCIP Year End Goal	Cumulative Quantity Complete at End of Calendar Year	Total Required for PTC Implementation, as Reported in PTCIP
Infrastructure (Back Office)				
Dispatching Locations (installations complete)	1	2	1	2
Physical Back Office System Equipment (installations complete)	1	2	1	2

Are the Back Office Location(s) fully operable?	Yes
Are the Dispatching Location(s) fully operable?	Yes.

Please provide any additional narrative for Infrastructure/Back Office Status below:

PCMZ has built a second control center as part of the PTC contract.

3.3. Installation/Territory Status

Category / Installation Feature	Quantity Installed During Calendar Year	PTCIP Year End Goal	Cumulative Quantity Installed at End of Calendar Year	Total Required for PTC Implementation, as Reported in PTCIP
Infrastructure – Wayside Installations by Territory (i.e., Subdivision, District, Track Segment, Etc.)²				
Identification of the Territory (i.e., Subdivision, District, Track Segment, Etc.)†: Click here to enter text.				
Wayside Interface Units†	Click here to enter sub quantity.	213	213	213
Communication Towers or Poles†	Click here to enter sub quantity.	14	14	14
Switch Position Monitors†	Click here to enter sub quantity.	N/A	N/A	N/A
Wayside Radios†	Click here to enter sub quantity.	N/A	N/A	N/A
Base Station Radios†	Click here to enter sub quantity.	19	19	19
Are all necessary communication backbone utilities for this track segment (including fiber, copper, ground wiring etc.) installed and ready for operation?† Yes.				

†Note: To add rows for additional territories and associated sub-components, click on the blue “+” symbol at the bottom right-hand corner. Please be sure to first click anywhere inside the table to activate this function. If this function is unavailable for your document, please manually add additional rows.

² Each railroad should report information in a manner consistent with its PTCIP. That is, if a railroad monitors implementation of track segments by territory or subdivision, it should report that way.

Please provide any additional narrative for Installation/Territory Status below. If any of the information called for in Section 3.3 is unavailable to the railroad at the time it is completing and submitting this form, please insert "TBD" in the appropriate field and/or use this comment box to explain when such information will be available and when the railroad expects to submit it to FRA.

N/A

4. Quantity Update on Employees Trained

Required content:

- Separated by each employee category identified below, the number of employees trained during the applicable calendar year and the cumulative number of employees trained at the end of the applicable calendar year, as compared to the number the railroad stated would be trained by the end of that calendar year and in total, in the applicable revised PTCIP, as amended

Employee Category ³	Number of Employees Trained During Calendar Year	PTCIP Year End Goal	Cumulative Number of Employees Trained at End of Calendar Year	Total Reported in PTCIP
Employees who Install, Maintain, Repair, Modify, Inspect, and Test the PTC System	9	N/A	Click here to enter number of employees.	60
Employees who Dispatch Train Operations	17	N/A	Click here to enter number of employees.	17
Train and Engine (Operations) Employees	10	N/A	Click here to enter number of employees.	52
Roadway Worker Employees	35	N/A	Click here to enter number of employees.	40
Direct Supervisors of the Above Employees	30	N/A	Click here to enter number of employees.	30

Please provide any additional narrative for Employee Training below:

PCMZ is utilizing a train the trainer process. Initial training classes for all disciplines are being provided..

³ See 49 C.F.R. § 236.1041(a).

5. Progress on Implementation Schedule/Milestones

Required content:

- Describe the extent to which the railroad or other entity is not complying with the implementation schedule it provided in its revised PTCIP, as amended

PCMZ did not meet the 12/31/15 implementation date and has submitted an updated PTCIP.

6. Summary Update of Challenges/Risks

Required content:

- Any update to the summary of remaining technical, programmatic, operational, or other challenges that the railroad or other entity provided in its revised PTCIP, as amended, including challenges with availability of public funding, interoperability, spectrum, software, permitting, and testing, demonstration, and certification
- Schedule Risk Updates (e.g., funding, technology, agreements)

Please provide Summary Update of Challenges/Risks below:

Approval of test documentation is a very long process.

7. Progress on Revenue Service Demonstration (RSD) or Implementation

Required content:

- The total number of route miles on which PTC has been initiated for revenue service demonstration or implemented, as compared to the total number of route miles required to have a PTC system (see Section 1 Summary Table)
- Estimated start date (month and year) for RSD

Segment Identification ⁴	Number of Route Miles in Segment	Status at End of Calendar Year <i>Current status of installation/track segment. Choose one:</i>	Estimated Start Date for Revenue Service Demonstration (if not already completed)
Segment (add additional rows for segments as necessary): one subdivision	52	<input type="radio"/> Not Started <input type="radio"/> Installing <input checked="" type="radio"/> Testing <input type="radio"/> Operational/Complete	12/2016

Note: To add additional rows, click on the blue “+” symbol at the bottom right-hand corner. Please be sure to first click anywhere inside the table to activate this function.

If this function is unavailable for your document, please manually add additional rows.

Please provide any additional narrative for Revenue Service Demonstration or Implementation below:

N/A.

8. Update for Intercity or Commuter Rail Passenger Transportation (if applicable)

If this section is not applicable to your railroad, please mark N/A.

⁴ Segment identification should be consistent with segments listed in Section 3.3.

Required content (if applicable):

- For each entity providing regularly scheduled intercity or commuter rail passenger transportation, a description of the resources identified and allocated to implement PTC

Please provide Update for Intercity or Commuter Rail Passenger Transportation below, if applicable:

See above. PCMZ is a commuter rail operation

9. Update on Interoperability Progress and Other Formal Agreements

Required content:

- For host railroads: provide updates to any agreements and key milestones for all tenant operations
- For tenant railroads: provide updates to any agreements and key milestones for all operations over tracks hosted by another railroad

Host and Tenant Railroads: Please provide a general update on interoperability in the textbox below.

We have established an interoperability working group with our tenant railroads to jointly develop test plans for submission to FRA. PCMZ is installing I-ITCS and our tenants are installing I-ETMS.

Host Railroads Only: For each tenant, please provide additional tenant information below.

Tenant Identification <i>(Please add rows for additional tenants as necessary)</i>	Estimated Tenant Locomotive Fleet <i>(if the tenant does not have a separate PTCIP on file)</i>	Current Tenant Implementation Status <i>Choose one:</i>
ACE	8	XO Not Started <input type="radio"/> Installing <input type="radio"/> Testing <input type="radio"/> Operational/Complete
Capital Corridor	Approx 24	Completed as we understand

UPRR	Separate PTCIP	Separate PTCIP
Amtrak Long Distance	Separate PTCIP	Separate PTCIP

Note: To add additional rows, click on the blue “+” symbol at the bottom right-hand corner. Please be sure to first click anywhere inside the table to activate this function.

If this function is unavailable for your document, please manually add additional rows.

10. Estimated PTC Safety Plan (PTCSP) Submission Date (if not already submitted)

If this section is not applicable to your railroad, please mark N/A.

PTCSP Submission Date
Draft - 12/2016

Please provide any additional narrative for PTCSP Submission below:

N/A

11. Testing and Integration Efforts (if applicable, laboratory, integration, and revenue service demonstration)

Please provide Update on Testing and Integration efforts below:

PCMZ is performing testing in labs, hi-rails and dynamic test train in parallel.

12. Updated Information That FRA Can Use to Maintain Its Geographic Information System (GIS) Database – Segments Complete and Operable

In its annual progress reports, a subject railroad or entity may submit a geographic information system (GIS) shapefile to indicate where various rail segments that must have PTC are located, as long as it includes the following fields: (1) a PTC attribute field (coded with “Y” if line segment is to have PTC installed, otherwise left blank); (2) a SUBDIV attribute field (populated with subdivision name); (3) a MONTH attribute field (populated with the month in which PTC is to be installed); and (4) a YEAR attribute field (populated with the year in which PTC is to be installed). A railroad may submit this information by means other than shapefile format.

Please provide any additional narrative for GIS Information below:

PCMZ is installing PTC on the peninsula corridor between Tamien and San Francisco, Ca.

Public reporting burden for this information collection is estimated to average 38.41 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. According to the Paperwork Reduction Act of 1995, a federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with, a collection of information unless it displays a currently valid OMB control number. The valid OMB control number for this information collection is **2130-0553**. All responses to this collection of information are mandatory. Send comments regarding this burden estimate or any other aspect of this collection, including suggestions for reducing this burden to OMB’s Office of Information and Regulatory Affairs, Attn: FRA OMB Desk Officer.