5th Quarterly Report

PUBLIC REPORT

Date of Report: December 29, 2025

Contract Number: 693JK32410003POTA, Amendment 0002

Prepared for: US DOT/PHMSA

Project Title: Evaluation of GeoLocation & Pipe Damage Assessment Applications

Prepared by: NYSEARCH/NGA

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For quarterly period ending: December 31, 2025

1. **Items Completed During this Quarterly Report:**

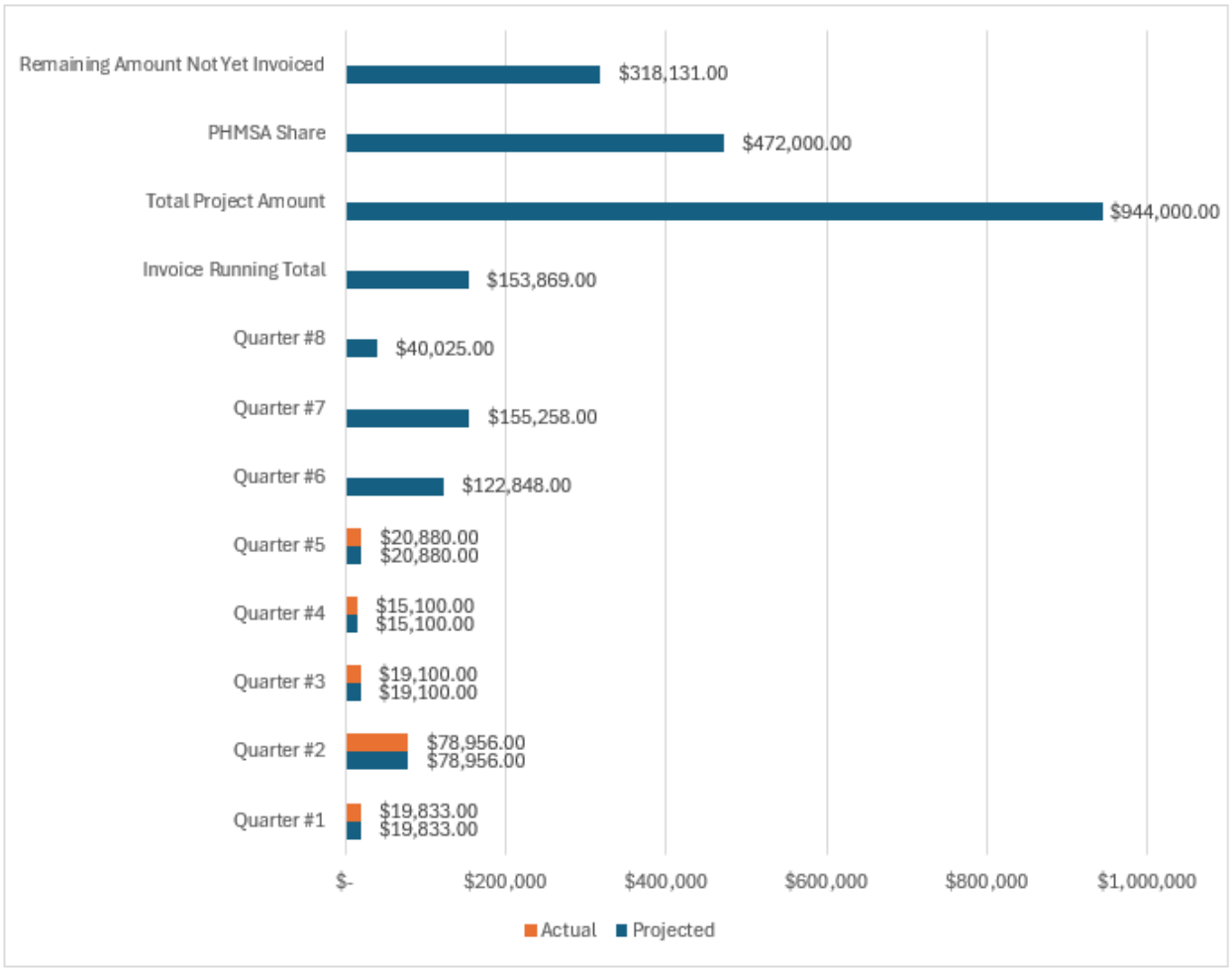
Item #	*Task #*	*Activity/Deliverable*	*Title*	*Federal Cost*	*Cost Share*
11	4	Advanced Electronics	Reduce the noise level, if any, seen during Task 2 and Task 3 to enhance the measurement precision.	$16,680	$25,472
16	4	NYSEARCH Project	Technical management of project	$3,200	$0
17	6	5th Quarterly Status Report	Submit 5th quarterly report	$1,000	$0

2. **Items Not-Completed During this Quarterly Period:**

Item #	*Task #*	*Activity/Deliverable*	*Title*	*Federal Cost*	*Cost Share*
7	3	Standoff distance testing with various corrosions geometries	Conduct a measurement campaign to determine the detection of corrosion vs depth of cover and with various corrosion geometries.	$86,784	$80,400
10	4	Autonomous System	Advance the system with battery packs to support a full day of operations in the field.	$31,864	$36,572

3. **Project Financial Tracking During this Quarterly Period:**

Quarterly Payable Milestone/Invoices – Agreement #693JK32410003POTA, Amendment 0002



4. **Project Technical Status:**

Over this reporting period, the project advanced efforts to evaluate the system's ability to detect pipeline corrosion under realistic conditions. Work began to support a structured measurement campaign that will assess detection performance across varying burial depths and corrosion sizes using controlled test conditions. To enable this effort, representative corrosion features were fabricated, and preparations were made for repeatable testing on a dedicated pipeline section. In parallel, continued integration of the prototype's mechanical and sensing components ensured the system can be positioned reliably and consistently above the pipeline, establishing a strong foundation for upcoming data collection activities planned for early 2026.

At the same time, the project made meaningful progress toward improving system robustness and field readiness. Electronics and power architecture were refined to reduce noise, simplify operation, and improve signal stability, all of which are critical for reliable corrosion detection. Building on these improvements, early work was initiated to evaluate portable power concepts that could support extended, full-day field operations without

reliance on external power sources. Together, these advances position the system for the next phase of testing and integration, supporting the project's long-term objective of developing a practical, field-deployable corrosion detection capability.

Project Schedule:

While the project has made steady technical progress, several challenges encountered during development necessitated a schedule extension to allow for completion of remaining prototype development, testing, and measurement activities. To ensure thorough evaluation and successful completion of all planned work, the project timeline has been extended by six months. The project, originally planned for an 18-month duration, is now expected to be completed within a total period of 24 months.

The no-cost schedule extension request was formally approved by PHMSA on December 12, 2025. Project activities are proceeding in accordance with the revised schedule, with no changes to the approved scope of work or project budget, and the project remains on track financially. The revised project completion date is September 30, 2026.