

# Public Quarterly Report

**Date of Report:** 9th Quarterly Report-November 30, 2020

**Contract Number:** 693JK31810010

**Prepared for:** DOT and OTD

**Project Title:** ORFEUS Obstacle Detection for Horizontal Directional Drilling

**Prepared by:** Gas Technology Institute for OTD

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**For quarterly period ending:** November 30<sup>th</sup>, 2020

## 1: Items Completed During this Quarterly Period:

<i>Item #</i>	<i>Task #</i>	<i>Activity/Deliverable</i>	<i>Title</i>	<i>Federal Cost</i>	<i>Cost Share</i>
32	6	9 <sup>th</sup> Quarterly Status Report	Submit 9 <sup>th</sup> Quarterly Status Report	\$6,024.00	\$5,219.00

## 2: Items Not-Completed During this Quarterly Period:

The project remains behind schedule. Once the subcontracts are worked out, a revised schedule will need to be provided.

<i>Item #</i>	<i>Task #</i>	<i>Activity/Deliverable</i>	<i>Title</i>	<i>Federal Cost</i>	<i>Cost Share</i>
20	1	HDD Bore Head Radar Re-design	Fully developed and ruggedized HDD radar hardware	\$29,234.00	\$176,418.00
21	3	System Software	Radar display and automatic target recognition software	\$5,901.00	\$72,878.50
22	3	System Software	Radar and communication link monitoring software	\$5,901.00	\$72,878.50

### 3: Project Financial Tracking During this Quarterly Period:

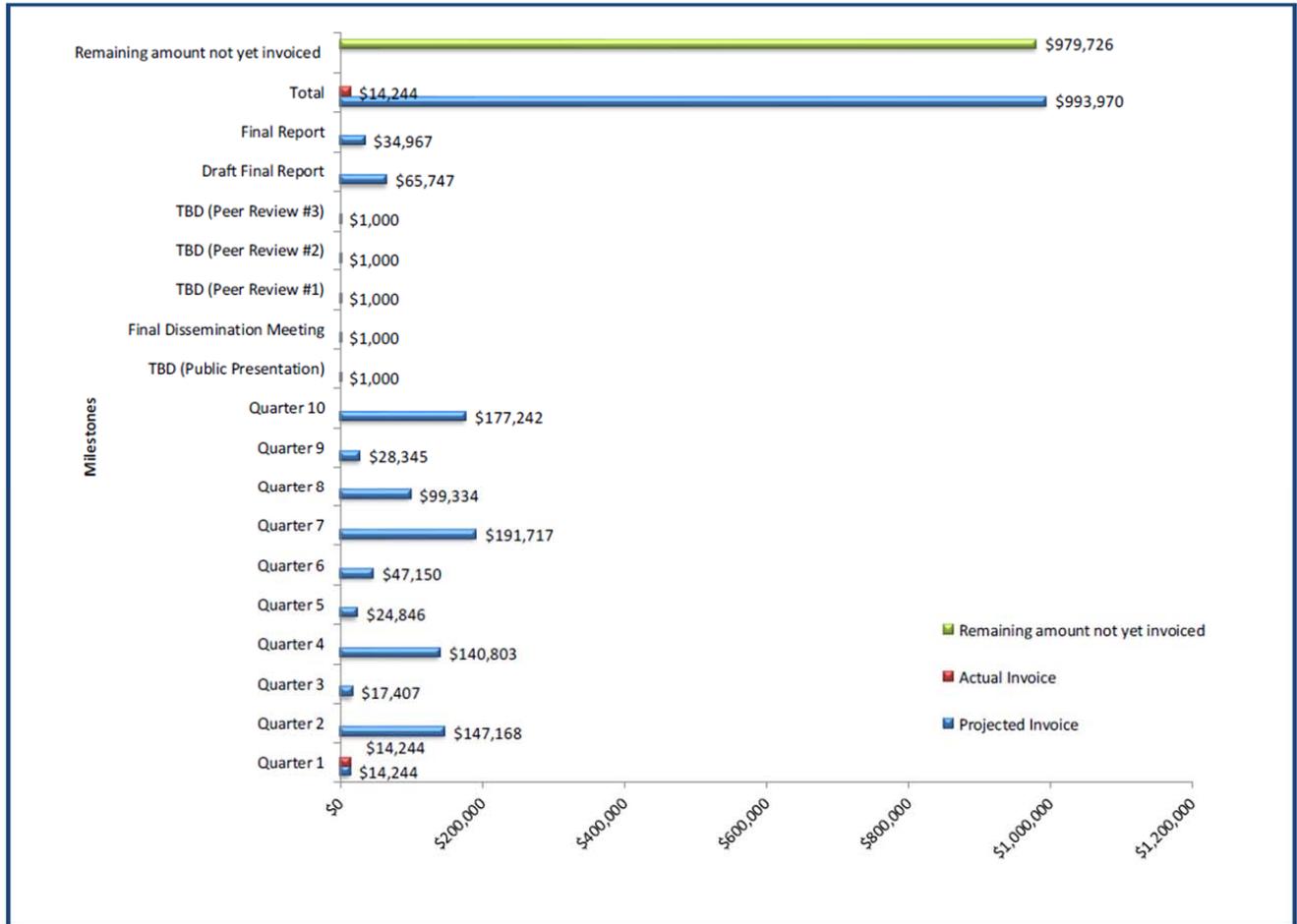


Figure 1. Quarterly Payable Milestones/Invoices – Contract #693JK31810009

### 4: Project Technical Status –

*No technical work has been completed to date. We have worked through the contracting issues and submitted the necessary paperwork to modify the project contract deliverable dates accordingly.*

### 5: Project Schedule –

*The project schedule has been delayed. We have discussed a path forward with everyone and had come to agreeable terms. An issue securing final signatures from IDS has come up that has further delayed the signing of the subcontract. We should have a resolution in the next two weeks.*

*Figure 2 shows the time schedule by Task thru Quarter 7. A revised schedule is shown below.*

		2020	2021				2022				2023
Task	Title	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
1	HDD Bore Head Radar										
2	Communications Link										
3	System Software										
4	System Validations, Pre-Commercial Launch										
5	Operational Tests										
6	Reporting										
7	Project Management										

Figure 2 - Schedule