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Develop an Evaluation Protocol for Non-LNG Release Hazards – Modeling

Agreement #693JK32010004POTA

Quarterly Status Report – Q1

Public

December 29, 2020

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1 Items Completed During this Quarterly Period

The performance period for the research project is 12 months, from September 30, 2020 through September 29, 2021. The current quarter closes on December 29, 2020. The PHMSA Agreement Officer's Representative (AOR) for this project is Robert Smith and the Technical Task Inspector (TTI) is Ms. Katherine Roth.

Table 1-1 shows the items and deliverables completed to date; the items in green were completed during this Quarter while the items in blue (light and dark) are not yet due.

Table 1-1. Items Completed

Item No.	Task No.	Activity	Deliverable	Due Quarter No.	Completion %
1	1	Conduct kick-off Team meeting with PHMSA and TAP	Kick-off meeting minutes and TAP member list	1	100%
2	2	Submit summary report providing the definition of "nil wind" and the basis for the definition.	Definition of "nil wind"	1	100%
3	3	Submit summary report of weather analysis for five U.S. regions	Statistical weather analysis	1	100%
4	8	Submit 1st quarterly report	1st Quarterly Report	1	100%
5	4	Perform and submit a review of the 2017 HSE report including relevance to LNG facilities	Review of 2017 HSE report	2	0%
6	5	Perform and submit consequence modeling under low wind and nil wind conditions	Consequence modeling with and without nil wind	2	0%
7	8	Submit 3rd quarterly report	2nd Quarterly Report	2	0%
8	3	Perform and submit a risk assessment with and without the inclusion of nil wind conditions	QRA comparison with and without nil wind	3	0%
9	8	Submit 2nd quarterly report	3rd Quarterly Report	3	0%
10	5	Prepare and submit Draft Final Report	Draft Final Report	4	0%
11	8	Submit 4th quarterly report	4th Quarterly Report	4	0%
12	8	Final Virtually Held Info Dissemination Meeting	Final Virtually Held Info Dissemination Meeting	-	0%
13	8	Peer Review #1 - Virtually Administered	Prepare presentation and present. Submit presentation file.	-	0%
14	7	Address Comments and Submit Final Report	Final report	-	0%
15	8	Present research results at an LNG conference	Accepted manuscript or presentation	-	0%

2 Items Not Completed During this Quarterly Period

There are no Tasks scheduled to be completed during this Quarter that were not completed during this Quarter.

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3 Project Financial Tracking During this Quarterly Period

The contract for this research project is fixed-price. The current project financial tracking is shown in Figure 3-1. Work for the project is on schedule and on budget.

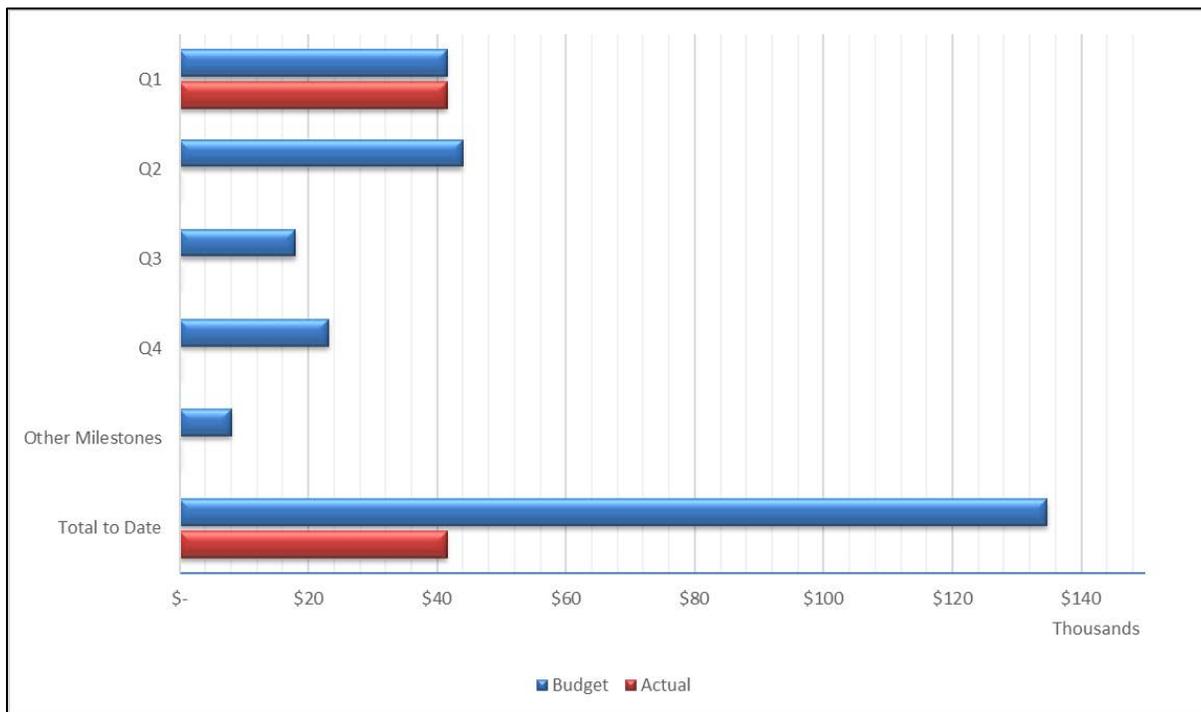


Figure 3-1: Project Financial Tracking

4 Project Technical Status

4.1 Task 1 – Kick-Off Meeting with TAP

Task 1 was completed.

4.2 Task 2 – Definition of “Nil Wind”

Task 2 is complete. A report for this task was submitted in Q1 (as a combined report with Task 3).

4.3 Task 3 – Statistical Weather Analysis

Task 3 is complete. A report for this task was submitted in Q1 (as a combined report with Task 2).

4.4 Task 8 – Project Management

Project management is an ongoing task which includes interfacing with the TTI and TAP, submitting quarterly reports and other deliverables. The Q1 report was submitted on December 29, 2020.

5 Project Schedule

The project team’s efforts to advance the project schedule are summarized below:

- The project is on schedule;
- The overall schedule in Figure 5-1 shows the tasks completed (in green) and those to be completed in later quarters (in yellow), per the original project schedule;
- The project team remains highly engaged and stable (with no changes in personnel).

Task #	Description	Quarter			
		Q4 '20	Q1 '21	Q2 '21	Q3 '21
1	Project Initiation				
2	Define Nil Wind Conditions				
3	Statistical Weather Analysis				
4	Review 2017 HSE Report				
5	Consequence Modeling				
6	Quantitative Risk Assessment				
7	Draft and Final Reports				
8	Project Management				

Figure 5-1: Project Schedule

5.1 Future Activities

Project team resources in Quarter 2 will be focused on completing Task 4 “Review of HSE Report” and Task 5 “Consequence Modeling”.