

**1<sup>ST</sup> QUARTERLY REPORT – PUBLIC**  
GTI PROJECT NUMBER 22418

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## **Project Title: Consistency Review of Methodologies for Quantitative Risk Assessment**

**Agreement: #693JK31810006**

**Date of Report:** Oct. 31, 2018

**Prepared for:**

U.S. Department of Transportation  
Pipeline and Hazardous Materials Safety Administration  
Office of Pipeline Safety

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**In coordination with:**

**Blue Engineering and Consulting Co.** 

**C-FER Technologies (1999) Inc.** 

**Idaho National Laboratory** 

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## **Funds and Work Completed this Quarterly Period**

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The following work was performed during this quarterly period.

**Task 1. Form Technical Advisory Panel (TAP) and Gather Initial Input from TAP** – The project team began and finished Task 1 during the 1<sup>st</sup> Quarter:

- Conducted Kick-Off Call with PHMSA and available TAP member on Oct. 18, 2018 via telephone.
- Provided notes of Kick-Off call to participants on Oct. 26, 2018.

**Task 2. Summary of Key QRA Methodologies and Key LNG QRA Attributes, with Bibliography** – The project team began working on Task 2:

- Began assembling initial Bibliography of LNG QRAs, and began formulating the plan to summarize key methodologies and attributes.

**Task 9. Program Management** – The project team began working on Task 9:

- Established subcontract between GTI and Blue Engineering and Consulting Co. and provided copy of subcontract to PHMSA on 9/25/18.
- Established subcontract between GTI and C-FER Technologies (1999) Inc. and provided copy of subcontract to PHMSA on 10/29/18.
- Conducted subcontract discussions between GTI and Idaho National Laboratory (INL), and reached agreement in principle regarding the path to establish this subcontract.
- Refined project schedule and developed detailed project Gantt Chart.
- Submitted first quarterly report on 10/31/18.

Four payable milestones were completed during this quarter. The deliverables completed were:

1. Presentation and Notes of Kick-Off Call with PHMSA and TAP. Due to DOT within three (3) months of the effective date of this Agreement. Completed on Oct. 26, 2018.
2. Written Confirmation that GTI has executed subcontract with C-FER. Due to DOT within three (3) months of the effective date of this Agreement. Completed on Oct. 29, 2018.
3. Written Confirmation that GTI has executed subcontract with Blue Engineering and Consulting. Due to DOT within three (3) months of the effective date of this Agreement. Completed on Sept. 25, 2018.
4. Submit 1<sup>st</sup> Quarterly Report. Due to DOT within three (3) months of the effective date of this Agreement. Completed on Oct. 31, 2018.

## **Results and Conclusions**

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The project is progressing well and is at an early stage. No results or conclusions have yet been developed.

## Plans for Future Activity

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Planned activities in the 2<sup>nd</sup> Quarter include:

- Execute GTI-INL subcontract and provide confirmation to PHMSA.
- Continue working on Task 2 and submit the Summary of Key QRA Methodologies and Key LNG QRA Attributes, with Bibliography by Jan. 31, 2019.
- Continue working on Task 3 Develop Outline of Consistent QRA Methodology.

End of Report

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