

# CAAP Quarterly Report

Date of Report: *April 10, 2016*

Contract Number: *DTPH5615HCAP07*

Prepared for: *DOT*

Project Title: *Electromagnetic Strategies for Locatable Plastic Pipe*

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For quarterly period ending: *April 10, 2016*

## **Business and Activity Section**

### **(a) Generated Commitments –**

N/A

Students working on project: Laura Waldman – Material compounding and testing  
TBD – Electronic modeling and detection  
TBD OSU Student – Assistance on extrusion and molding

### **(b) Status Update of Past Quarter Activities**

In the past quarter, we have completed the following research planning activities

1. Formally appointed one of the two TU graduate students – Laura Waldman (TU –Mechanical Engineering)
2. We have identified the EE student and we are waiting for graduate school admission decision.
3. Discussed timing for onsite meeting with program manager which should occur in June.

### **(c) Description of any Problems/Challenges –**

During this past quarter there were no significant challenges as we have just initiated the research project. As discussed in the previous quarterly report, the only major issue was discussing timing of the project due to the expected graduate student start date of May 2016. This particular issue has no substantive impact on the proposed research, but will impact the timing of the project. We have been in contact with our project manager and he is aware of the student issue and we are moving forward with the identification and hiring of graduate research assistants. We were hoping to begin some initial compounding studies for the polymer material, but the TU student, Laura Waldman, has been occupied with her senior design project and has been unable to schedule time in the lab.

### **(d) Planned Activities for the Next Quarter –**

Planned activities for the next quarter include the following

1. Initial material compounding tests.
2. Initialization of analytical and computation study of RFID designs for pipe.
3. In-person Kick-off meeting will occur during June.