1 Nov, 2016

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**Progress Report – 1 Oct 2016 – 31 Oct 2016**

Contract Number: HSHQDC-06-D-00022

Contract Number 7500097279

Order Number: HSCG23-07-J-TED150

Task Order – Performance Work Statement (PWS) 1.12

Attachments: (1) SAROPS subcontractor financial reports.

1. **Presented work done and attended IPR. Work involved listing the different geometry problems and the basic constraints for any algorithms. Also, summarized the planner changes from 2.03 to 2.1.**
2. **Also, participated in CGTRK ScrubEx’s.**
3. **I put “LatestSeed” in (as dicussed at the IPR), but will have to change that some. Planner currently uses the seed to generate a starting position, run through a major/minor pass, and *then* generate a new seed. The problem occurs when Planner does not get enough time to finish an entire major/minor pass; the seed never gets saved. This was by intent on my part; I wanted to re-start any major/minor pass that hadn’t finished. But I will change it so that I start a new major/minor pass even if the one in the previous run did not finish.**
4. **Put Martian Srus in, but I don’t look for them in the input; will have to do that now.**
5. **Long meeting with Jack on Planner strategies and “slushy” Srus. A “slushy” Sru is one that is exempt from the Major moves.**
6. **Discussions on linking Patterns (in Planner, we assign each “Sru” to a Pattern, and we will have to change the term for Sru because what are usually considered Sru’s can now have multiple Patterns).**
7. **Geometry routines; the Projection, North Projection, and Great-Circle-Arc-first-crossing are in. Still must find crossings within a large set and crossings between 2 large sets.**
8. **Struggled a bit with VS2015; I’ll have to check out why it doesn’t work, but in the meantime, I switched back to VS2010. I have a trial copy of 2015 through the end of the year, and hope to get SimLib working on that. The code didn’t change; something about 2015 didn’t like my “ConsoleApp” testing program.**

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| **Name** | **Activity Worked** | **Hours Worked** | **Hourly Cost** | **Total Cost** |
| Kratzke | Coding/Doc/Travel | 182.5 | -- | -- |
|  |  |  |  |  |
| **Totals** |  | 182.5 |  |  |
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