3 Apr, 2017

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**Progress Report – 1 Mar 2017 – 31 Mar 2017**

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. **Some old glitches showed up and were fixed. One of them in Rivers case was only there for the last 3 betas; it is a result of the memory reduction discussion in last month’s report. A second one has been there forever, and it involves SRUs that are blind toone object type.**
2. **I completely re-wrote the Planner document. I don’t use MS word often and so I felt a bit like a starting pitcher in the National League having to use a bat. The template that I had been using didn’t work well in my version of word so I started with a new one, using a standard one that had as many of the features that I needed, as I could find. I did put in drawings, pictures, equations (I’m good at that now!), captions, cross-references, headings, table-of-contents, … all to make sure that I could read and maintain this document is days to come. Already, I would like to put in a new section on rounding. Almost every step in the algorithm had changed so there was a lot to write.**
3. **Rounding has turned out to be a headache. Especially coupled with overlap and “just push the optimize button over and over.” The problem is simple; if I am to report a rounded solution, it will almost certainly have to have an adjusted path length to make a perfect box. Moreover, that rounding can cause a significant problem. Rounding has always been done to the final solution, whereas the dancing red rectangles are not rounded. So we get an optimal solution, and it gets degraded (or even improved) when rounded. Also, Judy gets the rounded solution and when she gives it back to me for the next “just push optimize again,” it’s an illegal solution because I must work with the entire path length and not the path length invented to make the rounded solution. So right off the bat, I can have worse solutions.**
4. **I haven’t heard from John Squires about the TRACE problem. Or memory issues either.**
5. **Chased down some red herrings; the code works fine, but there are some strange data glitches in etopo 1, an AutoEval crash, and some install problems that I did nothing to fix and they went away. Another one was a crash because the land jar did not get installed. For that one, I could supply a fix, but it’s probably better to crash if the land jar did not get properly installed.**

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| **Name** | **Activity Worked** | **Hours Worked** | **Hourly Cost** | **Total Cost** |
| Kratzke | Coding/Doc/Travel | 206 | -- | -- |
|  |  |  |  |  |
| **Totals** |  | 206 |  |  |
|  |  |  |  |  |