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**Progress Report – 1 Feb 2015 – 28 Feb 2015**

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. **SAROPS Systems Component Services Tasks**
   1. **Polished slide shows for IPR and presented them.**
   2. **Looked into bug on Sim Land. Called John Squires and walked him through a test for whether or not the SimLand jar file was installed and working (it was). Problem turned out to be elsewhere.**
   3. **Researched CUSP; continuously updated shoreline product. Probably that’s the way to get most of the US shoreline fixed.**
   4. **Looked into a POS values question even more. Wrote java code to:**
      1. **Detect when few particles are being used (set to 100 right now)**
      2. **When that happens, write a spreadsheet with as-readable-as-possible formulae that: Dumps PFail and Landed values for each SRU and each *Particle*, uses this spreadsheet to create other spreadsheets within the same workbook that correspond to SAROPS’ tables**

**The formulae within the spreadsheet must be readable since this is used to verify not only the answers in the reports, but also to both specify the exact formulae for the numbers and to verify that they are really the numbers we want.**

* 1. **Related to the above is that I have redefined the way that the tables are being written. Now I am writing xml tables that simply have to be re-formatted. Initially, I started to *really* do this by even specifying the names of the columns in my xml, but Judy didn’t want that and so, if the tables change, we’ll just coordinate that.**
  2. **Start to obfuscate my code since this goes international. As things now stand, anyone with a SAROPS install has my code. I doubt that’s a good idea. My latest installers are at least just byte code, but that can easily be “de-compiled” into source. Looked into ProGuard for this, but there are some issues with ProGuard.**
  3. **Found and fixed a coverage problem. The problem is that I was putting out numbers in the xml that were not intended for reports, but were being used as such. Planner has to use several “polygons” (think “rectangles”) and the “coverage” computation was being misinterpreted. Had to write code that detected when a trackline was really a ladder pattern, derive the “coverage box,” and use that to compute “coverage.” In so doing, I also had to re-compute path-length since when a trackline “is a ladder pattern,” the coverage is based on the path-length plus the length of the second leg.**
  4. **Double-checked on a “LKP-radius” issue. Not my bug. Another argument for always using local projections.**
  5. **Tried to look into sim problems but one was not repeatable.**
  6. **I was asked about object types and noticed that they were supposed to be < 32768 but are not now. Guy and I figured out a fix for that; simply read it as an int and mod it 32768. Did that, but that’s causing problems on ASA’s side. So I’ll change my code everywhere to change it to an int. This means that old particle files might not work since they store object types as shorts and the new particle files will have to store them as ints. Must do that in March.**
  7. **TWGs, IPR, Monthly, etc..**

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| **Name** | **Activity Worked** | **Hours Worked** | **Hourly Cost** | **Total Cost** |
| Kratzke (New Contract) | Coding/Doc/Travel | 99 | 282 | 27018 |
| Stone | Doc | 0 | 223 | 0 |
| L White (Tech Writer) |  | 0 |  | 0 |
|  |  |  |  |  |
| **Totals** |  | 88 |  | 27018 |
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