1 Feb, 2019

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**Progress Report – 1 Jan 2019 – 31 Jan 2019**

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. **Single Leg Ladder Patterns had issues since there was no way of handling.**
2. **Some SBV bugs; very minor effects, but tough to figure out. For example, a sort was done on courses. In some cases, the “effective” polars all have roughly the same course. If rounding is done on the courses, the sort’s order is compromised.**
3. **Ran down the problem with 1 Kt current, no wind, and a boat speed of 1.4 Kt. Counterintuitive though it may be, that was right, and I had to convince people.**
4. **Seemed to finish both VS and SS optimization. Jim found a bug in SS on 1/31, and it was a bit harder to fix than I thought. But I got it, I think, on 2/1. This effort also included defining the notions of “Spec Box,” “TS box,” and “Exc Pgon,” and implementing them for LP, SS, and VS. Also, updated and cleaned up the SimLib calls relevant to that. There’s probably more work to do on this, but the worst seems to be behind us.**
5. **Cleaned up the Random Number Generator that I use so that it seems to do a better job picking the ZeroZero particles in a SBV.**
6. **Started a doc on the nuances of rounding coupled with LP, VS, and SS.**
7. **Started writing a doc on BuildSimLand.**
8. **IPR in January; Attended and presented.**

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| **Name** | **Activity Worked** | **Hours Worked** | **Hourly Cost** | **Total Cost** |
| Kratzke | Coding/Doc/Travel | 200.35 | -- | -- |
|  |  |  |  |  |
| **Totals** |  | 200.35 |  |  |
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