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| **APPENDIX 1****TASKS COMPLETED IN PAST YEAR AND THOSE PENDING**Green denotes completed activities, whereas red denotes pending activities, to be completed before the planned launch in December 2019. |
| **No** | **Task** | **Status** | **Progress** |
| **1** | Testpod Design | Contact Hermon labs |   |
| **2** | USRP integration with pass logic: h/w+s/w | Pending  |   |
| **3** | GS antennae tests | Pending |  |
| **4** | EM integration | Waiting for propulsion system + RF cables +cables |  |
| **5** | Thruster manufacturing | Under integration |   |
| **6** | Fueling – on site/remote | Before sending to ISIS/launch agreement |  |
| **7** | Krypton gas procurement | Complete  |  |
| **8** | Magnetometer integration | Procured  |  |
| **9** | GS Construction | Ongoing |  |
| **10** | Geolocation implementation | Pending |   |
| **11** | Thermal analysis | Ongoing |  |
| **12** | Elta tests | Fast freq shift problem |  |
| **13** | Connect AX 100 to bus | Check feasibility of Nanomind/FPGA alternatives |  |
| **14** | Elta emitter 447.1 MHz | Get S/W interface  |  |
| **15** | GPS simulator | Pending |  |
| **16** | FM Bus | Pending for GPSDO finalization  |  |
| **17** | Code optimization | Complete |  |
| **18** | DDA/CCA code | CCA modification  |  |
| **19** | S/W test vectors | OCM test |  |
| **20** | Time sync | Ongoing |  |
| **21** | GS HW list/procurement | Pending (multiple USRP to USB) |  |
| **22** | Environmental tests |  |  |
| **23** | Vibration tests |  |  |
| **24** | Thermal redesign  | Waiting for dye parameters |  |
| **25** | Thermal tests |  |  |
| **26** | Telemetry | Define protocol |  |
| **27**  | GS Software | Ongoing |  |
| **28**  | S/W test connector | Pending |   |
| **29**  | Wiring | Pending |  |
| **30**  | Launch agreement | Ongoing (waiting for Abe)  |  |
| **31** | Export license |  |  |
| **32** | Adjustment for ADC manual commands  | Ongoing  |  |
| **33** | Components for FM | Sun sensor holders, brackets for HDRM, payload filter, magnetometer components, RW cage |  |
| **34** | Software CR |  |  |
| **35** | RBF for ICD Remove Before Flight |  |  |
| **36** | Solar panel deployment. Antenna deployment tests |  |  |
| **37** | Broken OCXO |  |  |