# DRAFT ACS Appendix H – Payload Constituents

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|  | Constituent #1 | Constituent #2 | Constituent #3 |
| Payload Constituent (satellite, separation system, etc.) | ***6U Spacecraft Bus***Alpha Cube Sat | ***Primary Payloads***1. Ka Band Software Defined Radio (SDR) & Aperture
2. Memorial Cremains
3. Auxiliary Propulsion
 | ***Optional Secondary*** ***Payloads**** Laser Retroreflectors
* Optical Network Terminal
* Additional Memorial Cremains
 |
| Owner | Xtraordinary Innovative Space Partnerships, Inc. (XISP-Inc) | Xtraordinary Innovative Space Partnerships, Inc. (XISP-Inc) | Xtraordinary Innovative Space Partnerships, Inc. (XISP-Inc) |
| Address (including Country) of Owner | 8012 MacArthur Boulevard, Cabin John, MD 20818 | 8012 MacArthur Boulevard, Cabin John, MD 20818 | 8012 MacArthur Boulevard, Cabin John, MD 20818 |
| Manufacturer | Baseline: GOMSPACE Premium 6U1st Alternate: Blue Canyon Technologies BE-6 | Comm – Tech Dev1. Baseline: Tethers Unlimited Swift Ka SDR + aperture

1st Alternate: GOMspace Ka SDR + aperture- - - - - - - - - - - - - - - - - -Commercial – Cargo 1. Celestis memorial

 cremains .25 kg- - - - - - - - - - - - - - - - - -Propulsion – Tech Dev1. Use of novel deployment timing/parameters, Delta V as a service, and/or provisioning of extra fuel may be required to reach alternate minimum energy trajectory insertion point
 | Science* Government Furnished Equipment

and/or* Commercial swap for early flight opportunity

- - - - - - - - - - - - - - - - - -* Additional Celestis memorial cremains .25 kg on space available basis
 |
| Address (including country) of Manufacturer |  |  |  |
| Operator | Xtraordinary Innovative Space Partnerships, Inc. (XISP-Inc) | Xtraordinary Innovative Space Partnerships, Inc. (XISP-Inc) | Xtraordinary Innovative Space Partnerships, Inc. (XISP-Inc) |
| Address (including country) of Operator | 8012 MacArthur Boulevard, Cabin John, MD 20818 | 8012 MacArthur Boulevard, Cabin John, MD 20818 | 8012 MacArthur Boulevard, Cabin John, MD 20818 |
| End User | Xtraordinary Innovative Space Partnerships, Inc. (XISP-Inc) | Xtraordinary Innovative Space Partnerships, Inc. (XISP-Inc) | Xtraordinary Innovative Space Partnerships, Inc. (XISP-Inc) |
| Address (including country) of End User(s) | 8012 MacArthur Boulevard, Cabin John, MD 20818 USA | 8012 MacArthur Boulevard, Cabin John, MD 20818 USA | 8012 MacArthur Boulevard, Cabin John, MD 20818 USA |
| End Use | Deep Space Spacecraft Bus | NASA CubeQuest Challenge Deep Space Derby Participant & Celestis Enterprise Mission | Cooperative Test Article in NASA Laser Communication Relay Demonstration (LCRD) mission & Celestis Enterprise Mission |
| General Description | Deep Space Spacecraft Bus | Advanced Communications Technology Development/Demonstration Satellite | Cooperative Test Article in NASA Laser Communication Relay Demonstration (LCRD) mission |
| Propulsion | Cold gas and/or H20 🡺 H2O2 | Cold gas and/or H20 🡺 H2O2 |  |
| Quantity | 1 |  |  |

Note: SpaceX may approve or deny one or more of the requested Payload Constituents, including if SpaceX determines it is unable to obtain regulatory approvals. Customer is allowed to propose an alternate Payload Constituent in place of any rejected Payload Constituent. After Mission integration analyses are complete SpaceX may reject a proposed alternate Payload Constituent if the proposed Payload Constituent invalidates the Mission integration analyses (as determined by SpaceX) or invalidates any licensing or regulatory approvals. SpaceX’s approval is at the sole discretion of SpaceX while timely approval for all items within the Payload be the sole responsibility of the Customer. Customer’s failure to receive approval for any item within the Payload may result in rebooking and associated fee.