Proposer ISS Instrument Resource Utilization Accommodation Table

| **Item Requested** |  | **Units** | **Value** |
| --- | --- | --- | --- |
| Instrument Readiness Date (Ready to fly date) | Date |   |
| Instrument Life Expectancy on ISS |   | x-years |   |
| LEO Orbit Altitude  | Nominal | miles |   |
| Acceptable range | miles |   |
| LEO Orbit Inclination | Nominal | degrees |   |
| Acceptable range | degrees |   |
| Sun Synchronous Orbit Equatorial Crossing time | Nominal | xx:xx AM/PM |   |
| Acceptable range | xx:xx AM/PM |   |
| Sun Synchronous Orbit Ground track revisit time | Acceptable range | days |   |
| GEO longitude | Nominal | degrees |   |
| Acceptable range | degrees |   |
| Mass (Maximum Expected Value (MEV\*)) | kg |   |
| Dimensions (l x w x h)  | m x m x m |   |
| Footprint Dimensions (l x w) | m x m |   |
| Orbit Average Power (MEV\*) | W |   |
| Peak Power (MEV\*) | W |   |
| Average Power |   | W |   |
| Survival Power |   | W |   |
| Orbit Average Data Rate (Science and health and status) (MEV\*) | kbps |   |
| Peak Data Rate (MEV\*) | kbps |   |
| Data Interface | 1553/ 422/ SpaceWire/ LVDS |   |
| Data downlink to ground Requirement (daily) |   | GB/per day |   |
| Data Latency Requirement |   | < x-hours |   |
| Pointing control | degrees |   |
| Pointing knowledge | degrees |   |
| Pointing jitter  | Arcseconds |  |
| Field Of View (FOV) | Direction | nadir/ zenith/ other |   |
| Breadth | degrees around nominal |  |
| Sensor or Radiative Cooler Keep Out Zones | Direction | nadir/ zenith/ other |   |
| Breadth | degrees around nominal |   |
| Thermal Interface Requirements | Adiabatic/heat transfer required (W) |   |
| ISS a potential platform? | Yes or No |   |
| Any unique constraints the instrument places on ISS | Operational, data required from host (e.g. gyro), EMI/EMC, contamination, radiation, etc. |   |
| Launch Environment Constraints | e.g. vibrations |   |
| Do you have a preferred site/location for your instrument on ISS? If so, which location (JEM-EF, Columbus or ELC)? | JEM/ELC/Columbus |   |
| Does your instrument require active cooling? | Yes or No |   |
| Instrument Operational Envelop Violation | mm in x/y/z axes |   |
| \*MEV (Maximum Expected Value) = Current Best Estimate (CBE) + Contingency  |