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 | | | |