<table>
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<tr>
<th>Interface Type</th>
<th>Description</th>
<th>Specification</th>
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| **Mechanical**                    | Customers will be provided power and ground for flight operations through the RockSat-X Power Connector | Connector Type: D-Sub Cannon (D-Sub)  
Gender: Male (pins)                                                                            |
| **Constraints**                   | Wallops and COSGC maintain the right to remove payloads not meeting these specifications        | Current: 120 VDC minimum  
Voltage: 28 +/- 4 V nominal per line  
Max Current: 1 Amp max per line  
**Flight Power Off**: Wallops and COSGC maintain the right to remove payloads not meeting these specifications  
All decks will lose power at ~T+6 minutes (~T+330 seconds)  
**Capacity**: Each full payload space has been allotted their own 1 Ah battery  |
| **Electrical, Ground (GND)**      | Wallops will supply a current return ground connection.                                            | Pins: 3, 8 and 12, 15 on RS-X Power Connector  
Max Current: 1 Amp max per line  |
| **Electrical, Ground Support Equipment (GSE)** | Wallops shall supply power lines capable of activation prior to launch.                           | Pins: 2 and 8 on RS-X Power Connector  
Voltage/Polarity: 28 +/- 4 V nominal per line  
Max Current: 1 Amp max per line  
Special Considerations: For GSE lines, Wallops will activate the GSE lines during environmental and other testing on the rail prior to launch, which should be taken into consideration in electrical design.  
See diagram on "Diagram" tab  
**GSE 1 Activation Time Prior to Launch**: From T-10 to T-3 minutes (Customer Defined)  
**GSE 2 Activation Time Prior to Launch**: From T-10 to T-3 minutes (Customer Defined)  |
| **Electrical, Timed, Non-redundant (TE)** | Wallops shall supply three non-redundant lines capable of activation post launch.                 | Pins: 4, 10, and 13 on RS-X Power Connector  
Voltage/Polarity: 28 +/- 4 V nominal per line  
Max Current: 1 Amp max per line  
Special Considerations: For GSE lines, Wallops will activate the GSE lines during environmental and other testing on the rail prior to launch, which should be taken into consideration in electrical design.  
See diagram on "Diagram" tab  
**TE-1 Activation Time Post Launch/Dwell Time**: From T+0.1 to T+6 minutes (Customer Defined) with Dwell Time from 1 second to flight  
**TE-2 Activation Time Post Launch/Dwell Time**: From T+0.1 to T+6 minutes (Customer Defined) with Dwell Time from 1 second to flight  
**TE-3 Activation Time Post Launch/Dwell Time**: From T+0.1 to T+6 minutes (Customer Defined) with Dwell Time from 1 second to flight  |
| **Electrical, Timed, Redundant (TE-R)** | Wallops shall supply a single redundant line capable of activation post launch.                  | Pins: 2 and 3 on RS-X Power Connector (Customers connect together)  
Voltage/Polarity: 28 +/- 4 V nominal per line  
Max Current: 1 Amp max per line  
Special Considerations: For GSE lines, Wallops will activate the GSE lines during environmental and other testing on the rail prior to launch, which should be taken into consideration in electrical design.  
See diagram on "Diagram" tab  
**TE-RA/RB Activation Time Prior to Launch/Dwell Time**: From T+0.1 to T+6 minutes (Customer Defined) with Dwell Time from 1 second to flight  
**TE-2 Activation Time Post Launch/Dwell Time**: From T+0.1 to T+6 minutes (Customer Defined) with Dwell Time from 1 second to flight  
**TE-3 Activation Time Post Launch/Dwell Time**: From T+0.1 to T+6 minutes (Customer Defined) with Dwell Time from 1 second to flight  ||