Document Format

1. **The CubeSat System Shall Incorporate a Deployment Switch**

This requirement comes from the CDC Document, Rev 12, Section 2.3.2 The purpose of the deployment switch is to completely turn off satellite power once actuated in the actuated state. Because it is essential that the switch function properly, this requirement falls under the Test category.

1. **No Protrusion Shall Extend beyond 6.5 mm Normal to Any External Surface of Jade or Turquoise**

This requirement is from the CDC Document, Rev 12, Section 2.26 which states that all components shall not exceed 6.5 mm normal to the surface of the 100.0 mm cube. This requirement is met under the Examine category.

1. **No External Components Other than the CubeSat Rails of Jade and Turquoise may make Contact with the Deployer**

This requirement is from the CDC Document, Rev12, Section 2.2.7 which states that exterior CubeSat components shall not contact the interior surface of the P-POD other than the designated CubeSat rails. This requirement is met under the Examine Category.

1. **The Deployer Shall not be Used to Secure Any CubeSat Deployables**

This requirement stems from the CDC Document, Rev 12, Section 2.2.8 which states that the P-Pod rails and walls shall not be used to constrain deployables. This requirement is met under the Examine category.

1. **The Center of Gravity of the total CubeSat System Shall be Located within a Sphere of 2 cm of the Geometric Center of the System**

This requirement stems from the CDC Document, Rev12, Section 2.2.17 which states that the CubeSat center of gravity shall be located within a sphere of 2 cm from its geometric center. This requirement will be met under the Analyze category.

1. **The Center of Gravity of Jade and Turquoise Shall be Located within a Sphere of 2 cm of their Geometric Center**

As Jade and Turquoise must meet requirements as specified by the CubeSat Program, Cal Poly SLO, and the requirement is for the center of gravity to be located within a sphere of 2 cm from the CubeSat geometric center (Section 2.217 of the CDC Document, Rev 12), this requirement will be met for Jade and Turquoise (Team Bravo RFP). The requirement will be met under the Analyze category.

1. **The CubeSat System Coordinate System Shall be Defined As Specified in Figure 1-1**

This requirement is from the CDC Document, Rev 12, Section 2.2.2 which references the coordinate system as defined in Figure 5 of that document. The Z face of the CubeSat will be inserted first into the P-POD. The deployable switch(s) are at the corners of the z side. The railings run the length of the Y side of the cube. This requirement will be met under the Examine category.

1. **The Local Coordinate System of Jade and Turquoise Shall be Defined as Specified in Figure 1-1**

This requirement is from the CDC Document, Rev 12, Section 2.2.2 which references the coordinate system as defined in Figure 5 of that document. Because Rascal which incorporates Jade and Turquoise as sub satellites number 1 and 2, respectively, they must meet those requirements (see RCL.PL.STR13 above). The requirement will be met under the Examine category.