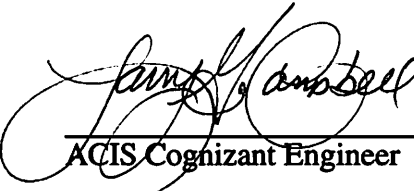


ACIS Verification Summary Report

| | |
|--|---|
| Specification: | ACIS Contract End Item Specification |
| Requirement Number/Title: | 3.3.3.2.2 Corona Suppression (VRSD 3.3.3.2.2) |
| Requirement Statement: Electrical and electronic subsystems and components shall be designed in accordance with MSFC-STD-531, such that their proper performance shall not be impaired by corona discharge in normal operating environments and shall not be a source of interference which adversely affects the operation of other equipment. | |
| Verification Method: | Analysis |
| Procedure Number: | |
| Configuration: | |
| Cycle Time: | |
| Verification Discussion/Results: | |
| <p>Voltages for the ACIS Instrument electrical and electronic subsystems and components are generated via dc to dc converters in the PSMC. The highest voltage generated in the PSMC is far below the level where concern for Corona effects become viable.</p> <p>Compliance with the requirements stated above were verified by analysis and reported in ACIS-600-A-08VR "Corona Suppression Analysis Report".</p> | |




 ACIS Cognizant Engineer

5/31/97

Date

ACIS Verification Summary Report

| | |
|--|---|
| Specification: | ACIS Contract End Item Specification |
| Requirement Number/Title: | 3.3.3.2.2 Corona Suppression (VRSD 3.3.3.2.2) |
| Requirement Statement: Electrical and electronic subsystems and components shall be designed in accordance with MSFC-STD-531, such that their proper performance shall not be impaired by corona discharge in normal operating environments and shall not be a source of interference which adversely affects the operation of other equipment. | |
| Verification Method: | <i>DEMONSTRATION</i> |
| Procedure Number: | - |
| Configuration: | <i>XRCF</i> |
| Cycle Time: | |
| Verification Discussion/Results: | |
| <p><i>FIRSTLY, NO VOLTAGE GREATER THAN 80 VOLTS EXISTS WITHIN THE EXPERIMENT. NORMAL DESIGN PRACTICES THEN MITIGATE AGAINST CORONA.</i></p> <p><i>SECONDLY, THE INSTRUMENT WAS OPERATED AT LENGTH DURING XRCF AT PRESSURES RANGING FROM 1×10^{-5} TO 3×10^{-8} TORR WITH NO EVIDENCE OF CORONA.</i></p> | |
|  ACIS Cognizant Engineer | |
| <i>6/12/97</i> Date | |