See RBSP_EFW_AXB_046 attached.

# RBSP EFW AXB

# Exposed Isolator Report

# RBSP-EFW-AXB-046

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Revision A

Signature Page

AXB Approval: _____
Jeremy McCauley, RBSP EFW AXB Lead

Science Approval: _____
Dr.John Bonnell, RBSP EFW CoI

Change Record

| Date | Revision | Description |
|---|---|---|
| 9/29/2009 | A | Baseline Release |
| | | |
| | | |

# 0. APPLICABLE DOCUMENTATION

The following documents are applicable to the extent specified herein. In the event of a conflict, the requirements of this document shall govern.

### *0.1 PROJECT DOCUMENTS*

| | |
|---|---|
| 7417_9096 RBSP_EFW_PA_004 | APL Flow Down Matrix |
| 7417_9018 | RBSP EMECP - Electromagnetic Environment Control Plan |
| RBSP_AXB_MEC_001 | AXB Assembly |
| RBSP_EFW_AXB_002E | RBSP EFW AXB Wiring Schematic |
| RBSP_EFW_SYS_001 | RBSP EFW Mission Requirements Document |
| RBSP_EFW_PA_001B | RBSP EFW Performance Assurance Implementation Plan |

# 1. Introduction

This document is a report of exposed isolators on the RBSP EFW AXB. These isolators are important to track as they may adversely influence the electrical fields around the sensor.

# 2. Terms

For the case of this report, and exposed isolator is defined as an isolator with some line of sight to the exterior of the spacecraft, i.e., without any coating or metallic component covering it.

# 3. Items

| Item Name: | Material: | Quantity: | Exposed Surface Area: (sq.in.) |
|---|---|---|---|
| Sphere Clamp | PEEK | 4 | 0.040 |
| Whip Hinge Washer | Vespel SP3 | 2 | 0.024 |
| DAD Lock Wheel Retainer | Delrin | 12 | 0.042 |
| Stacer Canister Isolator | PEEK | 1 | 0.260 |

Total Exposed Area: 0.972 sq. in.