

**INTERFACE CONTROL DOCUMENT TITLE AND APPROVAL PAGE**

**(Page 1)**

**ICD Number:** ICD-120-400-0001 VV Grounding

**Primary Author:** P. Goranson

**Impacted WBS Elements:** WBS-121, WBS-4

**Type of Interface:** Mechanical/Envelope Interface

**Description of Interface:** The Vacuum Vessel

This ICD defines the VV grounding requirements and describes the interface connection to NCSX grounding system.

**Record of Revisions**

<b>Revision Number</b>	<b>Description</b>	<b>Date</b>
0	Initial issue	February 11, 2005

**Approvals**

<b>WBS Manager:</b>	<b>WBS Manager:</b>
<b>Project Engineer:</b>	<b>Project Engineer:</b>
<b>Systems Engineering Support Manager:</b>	

## **ICD DETAIL SHEET**

**(Page 2)**

**(Use Continuation Sheets as Necessary to Include the Following Applicable Information)**

### **Scope of Interface:**

This interface impacts the design and fabrication of the Vacuum Vessel and the hookup requirements for the NCSX Electrical Systems.

### **Equipment and Responsibility List:**

Electrical Systems (WBS 4): Ramakrishnan

Vacuum Vessel (WBS 121): Goranson

### **Related ICDs:**

### **Notes and Abbreviations:**

### **Interface Block Diagrams:**

### **Installation Information:**

The Vacuum Vessel Systems Requirements Document stipulates that:

- a. The vacuum vessel shall be connected to a single-point electrical grounding system, provided in accordance with the NCSX Grounding Specification for Personnel and Equipment Safety. Providing the ground connection interface will be the responsibility of WBS 121.
- b. A minimum voltage isolation of 5000 volts shall be provided between the vacuum vessel and systems attached to the vacuum vessel, in accordance with the NCSX Grounding Specification for Personnel and Equipment Safety. Assuring the electrical isolation of the vacuum vessel from interfacing systems will be the responsibility of WBS 121.

### **Other Pertinent Information:**