

# ACIS Verification Summary Report

**Specification:** ACIS Contract End Item Specification

**Requirement Number/Title:** 3.2.2.11 Detector Assembly Vacuum (VRSD 3.2.2.11-3)

**Requirement Statement:** The DA shall employ a vacuum vent assembly to allow venting of the assembly to space and to serve as a means of pressurization or evacuation of the assembly.

**Verification Method:** Validation of Records

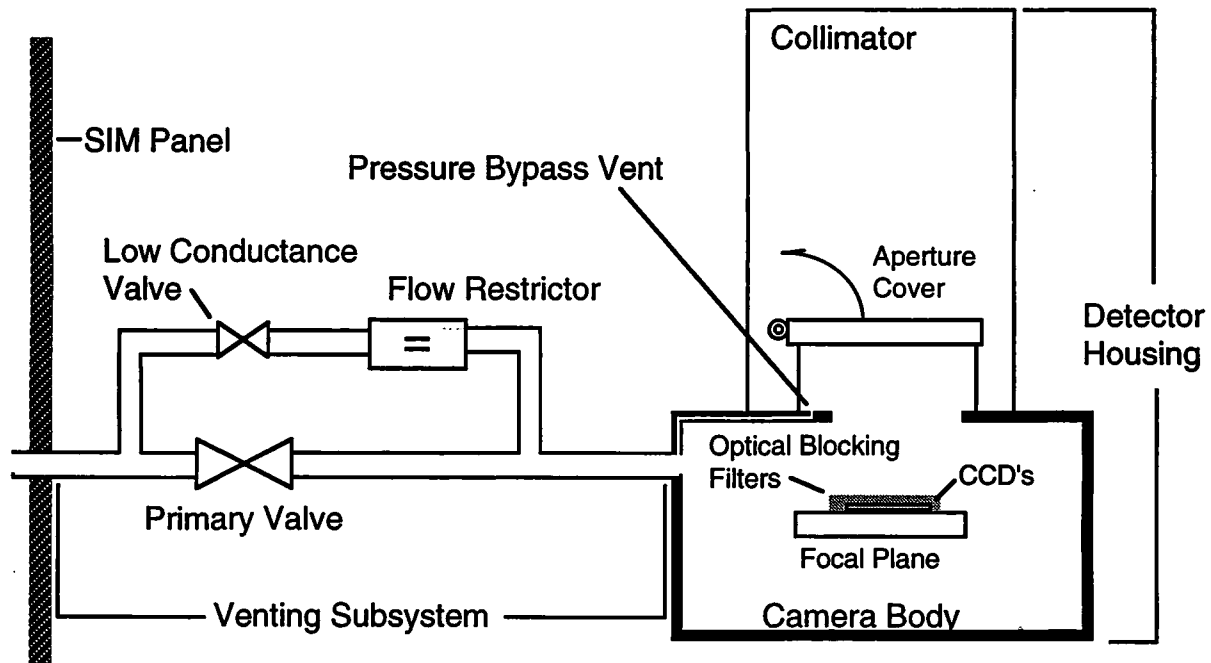
**Procedure Number:** Refer to Verification Report ACIS-110-43-03VR

**Configuration:**

**Cycle Time:**

## Verification Discussion/Results:

A Vacuum Vent Assembly has been incorporated into the ACIS instrument (Reference Drawing 849AC1000003 and Figure Below). The Vent Assembly allows repressurization of the camera body to ambient pressure  $\pm 5$  torr prior to Detector Housing door opening for ground operations. The Assembly uses remotely actuated valves, with flow restriction, for camera body evacuation and repressurization, while maintaining pressure equalization across the Optical blocking Filters. Finally, the venting Subsystem provides a path for Detector Housing venting external to the Science Instrument Module.



*Phil Butts* 6/22/97  
 ACIS Cognizant Engineer Date