Case Study

Risk Information Sheet After Analysis

ID 11	Risk Information Sheet		Identified: _ 9/ 1/2002_
Priority 10	**Statement** It has recently been decided that the Infrared sensors will be developed in-house and how they will communicate and how sensor data will be processed will be based on assumptions until the detailed design is baselined; the accuracy and completeness of those assumptions will determine the magnitude of change in the IR-SIP Instrument Controller CI and Infrared Sensing Unit CI interface requirements - it could be minor or catastrophic.		
Probability M			
Impact H			
Timeframe N	**Originator** K. Green	**Class** Requirements	**Assigned to:** _____

Context The AA program is in the Systems Preliminary Design Phase and the IR-SIP project software is in the Software Specification Phase.

- This is the first time these sensors will be used on a NASA mission. They will still be under design and definition during the IR-SIP Controller's software specification through implementation phases. Therefore, assumptions about the interface will have to be made in implementing the IR-SIP CSCI and if those assumptions are incorrect, then software rewrites will be necessary. We do have access to a reasonable set of assumptions and information from a contractor who has developed very similar sensors, but again, we don't really feel 100% confident in those assumptions.

- Problems were not anticipated in the current success-oriented schedule so there is no slack time if the impact of the changes is major. Schedule slips, cost overruns, and reduction in adequate testing time are all possible if the assumptions prove false.

- System testing does not begin until very late in the development, so if problems are encountered there is usually no time to make changes in the hardware. Therefore, software must provide work-arounds for problems encountered.

Approach: Research / Accept / Watch / Mitigate

Contingency Plan and Trigger

Status			**Status Date**

Approval _____	**Closing Date** __/__/__	**Closing Rationale**	