

HST INS Work Item Data Sheet

1. SI/Title: WFC3/Pipeline Rewrite
2. INS Lead: Howard Bushouse
3. Description of Work:

Determine and document the requirements and algorithms needed to properly process the detector data for the as-built instrument. Determine and document requirements for keyword changes, possibly including the QEKEYWORD relation fields (implying possible TRANS work). Modify the pipeline code, CALWFC3A, with the new algorithms and keyword needs. Update the TRANS code if QEKEYWORD changes are needed. Test the new implementations.

The basic pipeline structure should be unaffected. The changes will be concentrated on the IR channel.
4. Schedule Constraints and Dependencies:

Work must start after the IR channel Thermal Vacuum Test (TV3; January 2007), so the start date would be approximately March 2007.

Requirements depend on the flight IR detector as installed in the instrument.
5. Risks and Open Issues:

Open Issue – The detector level corrections are not yet known since no flight detector has been chosen.
6. Priority: High
7. Priority Justification:

Needed at launch to support SMOV and ERO data.
8. Resources (including estimated calendar duration for each portion):
 - a. Requirements
WFC3 IPT
 - b. Development
CALWFC3A Developer
TRANS Developer
 - c. Testing
WFC3 IPT
OPUS Test Engineer
TRANS Test Engineer
9. Documentation and Deliverables:

Requirements Document
Design Review
CALWFC3A Code Delivery
TRANS Code Delivery
Test Report

