

CRaTER Verification Procedure/Report

Title: (8.5.6) Pathlength constraint

Document 32-06020.36

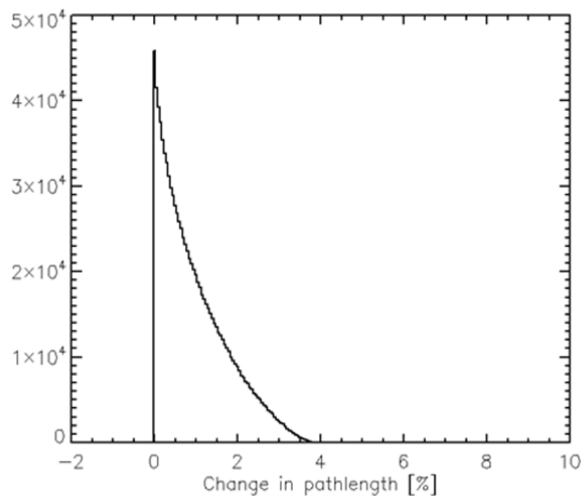
Reference: 32-01205 Instrument Requirements Document Section 8.5.6

Requirement: The root mean squared (RMS) uncertainty in the length of TEP traversed by a particle that traverses the entire telescope axis shall be less than 10%.

Procedure: The minimum and maximum pathlength through pairs of detectors is determined through review of the mechanical drawings.

Results:

Confirmed that we meet the pathlength requirement by taking the detector locations from mechanical drawings and calculating the RMS uncertainty in pathlength through a Monte Carlo simulation.



**RMS from Monte Carlo
is 0.78% < 10%**

S/N: 01 & 02

Passed/Failed: Passed

Comments:

Performed by: JCKasper

R&QA: _____

Date: 1 November 2007

Date: _____