

CRaTER Verification Procedure/Report

Title: (8.3.2) LET Through TEP

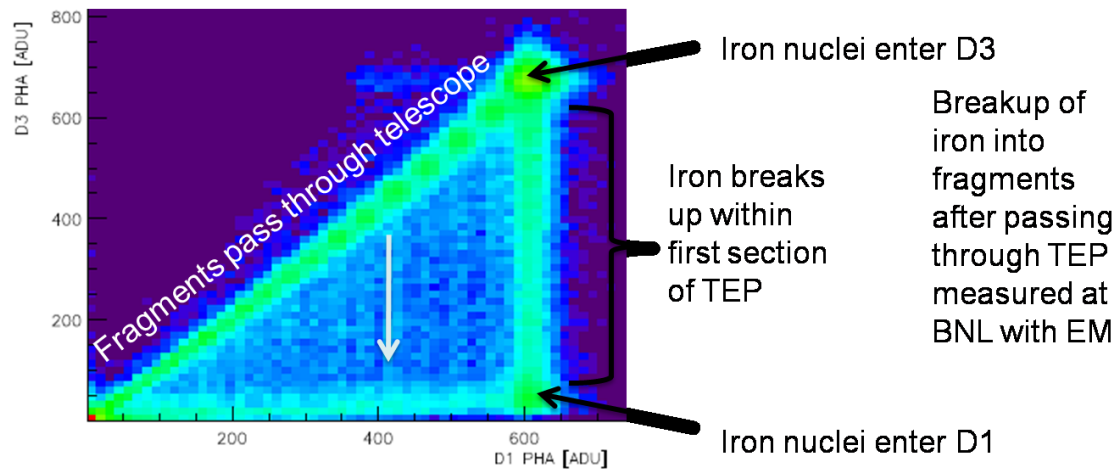
Document 32-06020.22

Reference: 32-01205 Instrument Requirements Document Section 8.3.1

Requirement: The LET spectrum shall be measured before entering and after propagating through a compound with radiation absorption properties similar to human tissue such as A-150 Human Tissue Equivalent Plastic (TEP).

Procedure: Numerical simulations will be used to model the expected evolution the LET spectrum of ions through the TEP sections.

Results: Numerical simulations of the expected range of energy deposits by fragmentation of iron nuclei after passing through the TEP were compared to observations of the process at Brookhaven National Laboratory and agree.



S/N: 1 & 2

Passed/Failed: Passed

Comments:

Performed by: JCK

R&QA: _____

Date: 2 November 2007

Date: _____