

**Solar Probe Plus (SPP)  
Payload L3 Requirements Peer Review  
24 May 2013**

**Action Item Request**

**Item No. PAY-226**

**Originator/ Organization/Phone #:** Nigel Angold / ISIS / 818-419-3542

**Area of Concern/ Presenter:** Requirement wording does not reflect the latest input from EPI-Lo.

**Action/ Recommendation/ Concern:**

Update the wording of the requirement to:

“EPI-Lo shall be capable of measuring energy spectra, composition, and angular distributions for ions from  $\leq 0.05$  MeV/nuc to 5 MeV/nuc to a maximum energy of 15 MeV for solar energetic particle event intensities up to at least  $10^6$  particles/cm<sup>2</sup>-sr-s, except when penetrating particles induce a background counting rate greater than 50% (TBR) of the foreground rate.”.

**Note: we will need to further refine the wording following the discussions that took place during the review and to ensure that the requirement is verifiable.**

**Rationale:**

We don't expect to have any problem with the ion measurements because they require a triple coincidence which dramatically suppresses background contamination, but we need to determine quantitatively when this could be a problem.