

Final Design Review Documents

John Seely and Greg Pien, 6/26/00

Integration Plan

Editor - Glenn Holland

LLE Reviewer - Greg Pien

Content:

Mechanical, electrical, and vacuum integration of the instrument to the TIM.

Integration of the instrument's control system and data acquisition system to the OMEGA DAS.

Integration of the LLE trigger and timing pulses.

Instrument pointing with respect to the target.

Operating Procedures

Editor - Rob Atkin

LLE Reviewer - Tom Hinterman

Content:

Instrument activation, self tests, dormant state, ready state, data collection, data transfer to OMEGA DAS, instrument shutdown.

Implementation of the LLE trigger and timing pulses.

Static Test Plan

Editor - Glenn Holland

LLE Reviewer - Greg Pien

Content:

Initial instrument aliveness offline tests at LLE.

Simulation and verification of various instrument modes (activation, self tests, dormant, ready, data collection, shutdown).

Implementation of LLE trigger and timing pulses.

Simulation of data transfer to the OMEGA DAS.

Field Test Plan

Editor - John Seely

LLE Reviewer - Christian Stoeckl

Content:

Selection of targets to be irradiated by the OMEGA laser for hard x-ray production.

Expected x-ray spectra to be recorded on the CCD detector.

Analysis of the x-ray spectra regarding the instrument's capabilities (spectral resolution, dispersion, sensitivity).