

The Heavy Photon Search Readiness Review (phase II)
Jefferson Lab June 12, 2017

Charge

1. What are the reasons for the HPS upgrade and what will be different from the previous setup?
2. Has the entire beam-line, target, detector configuration been defined (including ownership, maintenance and control during beam operations)?
In particular:
 - a. Are there any beam line changes required to run the HPS experiment with CLAS12 in place?
 - b. Can HPS equipment remain in the alcove while CLAS12 operates?
3. What is the status of the new equipment to run HPS phase II? If the construction is not completed, what is the completion schedule and commissioning? In particular we want to hear about:
 - a. The SVT detector upgrade: hardware details, rates, radiation damage expected on added SVT layer, tracking efficiency
 - b. The trigger scintillator: hardware details
4. Are the responsibilities for carrying out each job identified, and are the manpower and other resources necessary to complete them on time in place?
5. Are the radiation levels expected to be generated in the hall acceptable? Is any local shielding required to minimize the effects of radiation in the hall equipment?
6. What is the status of the specific documentation and procedures (COO, ESAD, RSAD, ERG, OSP's, operation manuals, etc.) to run the experiments? This includes demonstrated readiness and a draft of milestones for expedient analysis of the data.