

Hall C A₁ⁿ (E12-06-110) and g₂ⁿ (E12-06-121)
Experiment Readiness Review
Jefferson Lab March 2, 2018

Charge

1. What are the running conditions for both experiments? Please state clearly the maximum current being used and the target dimensions.
2. What is the operational status/performance requirements of the equipment needed by the experiments. Precisely:
 - a) *3He target*
Provide the targets configuration needed, performance requirements and status.
 - b) *Laser system*
Provide the laser system configuration needed, the operation and safety (including documentation) and status.
 - c) *Moller and Compton beam polarimeters*
Demonstrate that polarimetry is expected to provide a precision of $\Delta P_b/P_b < 1\%$
If the above elements are not already operational, what are the completion/commissioning schedules, tasks and user commitment?
3. Are the polarized target running configurations affected by the spectrometer fields? If yes, have the fringe field effects been properly mitigated?
4. Has the entire beam line, spectrometers, detector configuration been defined, including ownership, maintenance and control during beam operations?
5. Are the responsibilities for carrying out each job identified, and are the manpower and other resources necessary to complete them on time in place?
6. Are the beam commissioning procedures and machine protection systems sufficiently defined for this stage?
7. 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?
8. Has readiness for expedient analysis of the data been demonstrated?

- What is the projected timeline for the first publication?
9. What is the status of the specific documentation and procedures (COO, ESAD, RSAD, ERG, OSP's, operation manuals, etc.) to run the experiments?