

BEAM REQUIREMENTS LIST

JLab Proposal No.: PR-12-11-010 Date: 7/5/2011

Hall: C Anticipated Run Date: _____ PAC Approved Days: _____

Spokesperson: K.Slifer Hall Liaison: _____
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List all combinations of anticipated targets and beam conditions required to execute the experiment. (This list will form the primary basis for the Radiation Safety Assessment Document (RSAD) calculations that must be performed for each experiment.)

Condition No.	Beam Energy (MeV)	Mean Beam Current (μ A)	Polarization and Other Special Requirements (e.g., time structure)	Target Material (use multiple rows for complex targets — e.g., w/windows)	Material Thickness (mg/cm^2)	Est. Beam-On Time for Cond. No. (hours)
1	11000	0.110	unpolarized	ND3	300	912
2	2200	0.110	polarized	ND3	300	48
3	11000	0.110	unpolarized	carbon	300	24

The beam energies, E_{Beam} , available are: $E_{\text{Beam}} = N \times E_{\text{Linac}}$ where $N = 1, 2, 3, 4, \text{ or } 5$. $E_{\text{Linac}} = 800 \text{ MeV}$, i.e., available E_{Beam} are 800, 1600, 2400, 3200, and 4000 MeV. Other energies should be arranged with the Hall Leader before listing.