

1 Experimental Safety Assessment Document (ESAD) for
2 Hall C E12-06-110, E12-06-121

3 (draft February 27, 2018)

4 The JLab E12-06-110 and E12-06-121 experiments will measure the neutron
5 asymmetry A_1^n , and the spin structure function g_2^n and its moment d_2^n using a
6 longitudinally polarized beam on a polarized ^3He target. These experiments are
7 compatible with the base equipment in Hall C, plus two non-standard equip-
8 ment. Specifically, the experiments will use:

- 9 • the standard Hall C beamline;
- 10 • the High Momentum Spectrometer (HMS) and the Super-High Momen-
11 tum Spectrometer (SHMS), as described in the Hall C Standard Equip-
12 ment Manual;
- 13 • the Moller Polarimeter, as described in the Moller Operation Safety Pro-
14 cedures (Moller OSP);
- 15 • the polarized ^3He target system as described in the Target Operation
16 Safety Procedures (Target OSP).