The Tritium Experiments Readiness Review

Jefferson Lab March 16, 2016

Charge

1. Is all the equipment installed and operational? If not, what is their completion/commissioning schedule and procedure?
2. Have the recommendations addressed during the September 15, 2015 ERR concerning the conceptual design of the Tritium Target from an operational safety, been followed? In particular:
   1. Has the final target ladder configuration been finalized?
   2. Has the schematics of vacuum systems and exhaust systems been checked/certified for functionality?
   3. Have all pressure system analyses been reviewed and approved?
   4. What is the status of passive and active control and safety systems?
   5. Status of the radiological recommendations (e.g. atmospheric dispersion check, transport/storage container definition, ....)?
3. Have all the jobs that need to be done to mount the experiment/s been identified and defined adequately?
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? (both Jefferson Lab and the collaboration must be included).This should include a clear definition of the target system ownership and responsibilities. i.e., for the target system the installation plan, including safety checkout plans both prior to installation (specifically including the transportation of the target to JLab), during installation, and after installation, should be presented.
5. Has the sequence of the experiments in the run group been optimized? Is there a backup plan in case the requirements of an experiment are not fulfilled?
6. 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?
7. Are the formal documentation requirements and reporting (run coordinator 🡪 shift leaders) procedures for running the experiment adequate, appropriate and complete (COO, ESAD, RSAD, ERG, OSP’s, general equipment operation manuals, etc.)?