

Subject: JRRP Report to UGBBOD

Date: Tuesday 25 June 2019 at 11:51:12 Eastern Daylight Time

From: Hyde, Charles E.

To: Julie Roche

Dear Julie,

Here is my report as User Representative to the Jefferson Lab Radiation Review Panel (JRRP).

The JRRP met on May 2, 2019.

- Everyone breathed a sigh of relief when the Tritium target was shipped to Savannah River on May 1.
 - Tritium run was very successful.
 - A draft NIM paper is on the arXiv.
 - There have been enquiries for a follow-up experiment.
- Possible changes to the Radiation Worker Training are under consideration
- For the July to December 2018 period, the following radiation exposures were recorded (all users, staff, etc)
 - 22 reportable (about 10 mrem) cases, most of which were within the context of a special RWP, with SRPD monitoring
 - Average reportable dose of 17 mrem, total exposure of 374 mrem to the 22 individuals.
 - No users received a reportable dose.
 - Special RWP estimated doses were always larger than actual recorded dose.
 - Site boundary does < 15 mrem (photons, incomplete neutron monitoring).
 - During Hall C high luminosity run on 10% Cu radiator:
 - Hall C roof neutron dose 2 mrem/hr
 - Site boundary neutron rate 5 micro-rem/hr
 - Site boundary gamma rate 1 micro-rem /hour
 - Some issues with site boundary monitors/cabling damaged by weather, construction/maintenance. Upgrades in progress.

In general, radiation exposures are low, well within JLab and DOE limits, and accurately predicted.

Sincerely,

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