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Memo

Date: November 7, 2013

To: Distribution

From: P. Bergh  11/7/13

Subject: CY' 2012 TLD Area Monitoring results for C-AD

The Collider-Accelerator Department maintains a TLD area-monitoring program to ensure no individual in other BNL Departments or Divisions located adjacent to C-AD facilities receive more than 25 mrem/year from C-AD operations. The program requires area TLDs be placed at specific locations for the following facilities:

1. NASA Space Radiation Laboratory (NSRL)
2. Alternating Gradient Synchrotron (AGS)
3. Booster
4. Relativistic Heavy Ion Collider (RHIC)
5. Tandem Van deGraff Generator (TVDG) including beam transfer line.
6. Electron Beam Ion Source (EBIS)
7. Energy Recovery LINAC (ERL)
8. Vertical Test Facility/Little Block House
9. Building 938 Training Facility

The monitoring periods for the TLD's are based on facility operations and range from twelve to fourteen weeks in duration. There were four separate monitoring periods for the 2012 calendar year. Attached are the results for each TLD location with an occupancy factor of 8 hrs/day, 5 days/week for one year.

Based on the attached results and a realistic daily occupancy factor, a dose in excess of 25 mrem to an individual in other BNL Departments or Divisions, from C-AD operations is considered unlikely.

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