

Gamma ray Neutron Test Facility (GNTF) – GSFC/GGAO

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Description of Facility

- The GNTF is an outdoor and thus low background facility that permits the safe testing of high intensity radiation detectors. Facility personnel will operate a DT Pulsed Neutron Generator (PNG) from inside a building as much as ~50 m away. The PNG emits 14 MeV neutrons in either a pulsed or continuous mode with an average isotropic intensity of up to ~10⁸ n/s.
- Available equipment: DT Pulsed Neutron Generator
- ~ 30% time available to the community; subject to change dependent on demand and facility personnel availability
- Access: in person only
- · Center access restrictions for foreign nationals

How to use the facility

- Contact the POC to request access
- Requests will be reviewed for feasibility. If acceptable, the project will be placed in the queue subject to proposal award/funding. Small and/or quick proof of concept tests could be run at no cost dependent on evaluation
- Requests are prioritized on a first-come, first served basis, unless mission critical.
- Costs: the \$2000 per day cost is primarily for labor since two facility operators are required for the safe operation of the PNG.



The GNTF is an outdoor facility for safely testing radiation detectors

Contact information:

- Goddard Geophysical and Astronomical Observatory (GGAO) at NASA Goddard Space Flight Center, Greenbelt, MD, USA
- POC for information and scheduling: Ann M. Parsons Email: <u>Ann.M.Parsons@nasa.gov</u> Phone: 240-381-7268

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