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**Title:** Nondestructive Analysis of MET-5 Drum at TA35 Building 2 A-Wing Vault.

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In Building 2 A-wing vault MET-5 has some drums and other packages they wanted NEN-1 help identifying nondestructively.

Measurements using a mechanically cooled portable high purity germanium HPGe Ortec detective were taken of a type B drum Serial number R-1157 to determine if any radioactive material was inside. The HPGe detector measures the gamma rays emitted by radioactive material and displays it as a spectrum. The spectrum is used to identify this radioactive material by using appropriate analysis software and identifying the gamma ray peaks.

The Drum, R-1157, spectrum was analyzed using PeakEasy 4.84 and a visual look at the spectrum showed background radiation.