



# 2012

# LANSCE Topical User Meeting

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## Abstract

### X-Ray Radiography and Computed Tomography Capabilities at AET-6

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AET-6 is the non-destructive testing group at Los Alamos National Lab and has been active in x-ray imaging since the Manhattan project. This talk presents an overview of the x-ray imaging capabilities currently in use for both production and R&D work. X-ray sources, detectors, and techniques are discussed along with the various techniques they are used in. In addition the specific strengths and weaknesses of these x-ray techniques are discussed along with the economic factors, specifically cost and time that drive the selection of a particular technique for component inspection.

The intent of this talk is not to completely cover x-ray imaging or directly compare it to neutron imaging, but instead to provide a background on what is currently done and to offer some insights on specific weaknesses which neutron imaging might address or be cost competitive in.