

SUBJECT: Office of Independent Oversight's Office of Environment, Safety and Health
Activity Report for the Los Alamos Site Office Fire Protection Oversight at the Los
Alamos National Laboratory, April 5-9, 2010

The U.S. Department of Energy Office of Independent Oversight, within the Office of Health, Safety and Security, in coordination with the Los Alamos Site Office (LASO), provided a technical expert to conduct several fire protection oversight activities, including validation of Los Alamos County's Fire Hydrant Flow Test Methodology and a review of Los Alamos National Laboratory Equivalency Request Review Process in support of LASO oversight of the contractor.

Analysis of the Pitotless Nozzle for Measuring Fire Flow Rates

The Office of Environment, Safety and Health performed a third party review of the fire flow test method and associated equipment to validate the accuracy of Hydro Flow Products pitotless nozzle for use by the Los Alamos Fire Department. This equipment is used for measuring flow rates from hydrant outlets when evaluating water supplies or testing fire pumps at LANL facilities.

Data from two flow tests were measured and recorded using three different test methods all in accordance with NFPA 291 - *Recommended Practice for Fire Flow Testing and Marking of Hydrants*. The results of the flow measurements made with the pitotless nozzle and the other two 'more traditional' methods were documented in a test report provided to LASO in support of oversight of the laboratory.

LANL Equivalency Reviews

The Office of Environment, Safety and Health completed walk-downs of Technical Area (TA) - 3-1498 and TA-3-2327 in support of equivalency request review process were completed on April 6, 2010 for compliance with DOE Order 420.1B. Details of the results from the walk downs were documented and formally sent by LASO on June 23, 2010, for laboratory review and action.