



## *Nevada Operations Office News*

### **News Media Contact**

La Tomya Glass, 702-295-3521  
glass@nv.doe.gov  
Darwin Morgan, 702-295-3521  
morgan@nv.doe.gov

### **For Immediate Release**

August 29, 2002

## **National Nuclear Security Administration Scientists Conduct Successful Subcritical Experiment at Nevada Test Site**

The National Nuclear Security Administration's Los Alamos National Laboratory successfully conducted *Mario*, at 12:00 p.m. (PST) today, at the Nevada Test Site.

*Mario* was the 18th subcritical experiment conducted at the Nevada Test Site. The experiment was designed to answer questions about ejecta and spall associated with the physical properties of plutonium. Ejecta is a forceful spray of particles propelled from a material's surface when it is compressed by a powerful shock wave. Spall is the breakup of material from the explosive shock wave reflected back from the surface.

Scientists conduct subcritical experiments in order to obtain technical information in support of the National Nuclear Security Administration's program to maintain the safety and reliability of the nation's nuclear weapons stockpile in the absence of nuclear testing.