



Labs Accomplishments 2009

1. Please check the ONE most-appropriate category:

<input type="checkbox"/> Nuclear weapons engineering (incl. surety, survivability, etc.)	<input type="checkbox"/> Weapons security (safeguards, transport, incident response, etc.)	<input type="checkbox"/> Product realization (incl. NW design, manufacture, etc.)
<input type="checkbox"/> Remote sensing (electronics for global awareness, verification, surveillance, reconnaissance, etc.)	<input type="checkbox"/> Military programs (incl. military systems, missile defense, defense technology products & support, etc.)	<input type="checkbox"/> Energy (nuclear energy, alternative energy, fossil fuels, water, energy security, etc.)
<input type="checkbox"/> Global security (nonproliferation, global threat reduction, international maritime security, etc.)	<input type="checkbox"/> Homeland security (incl. materials detection, event mitigation, force protection, border security, etc.)	<input type="checkbox"/> Infrastructure protection
<input type="checkbox"/> Bioscience	<input type="checkbox"/> Computer & information sciences (incl. modeling & simulation, visualization, etc.)	<input type="checkbox"/> Engineering sciences (incl. experimentation, validation, predictive simulation, etc.)
<input type="checkbox"/> Materials (nano, materials processing, reliability, etc.)	<input type="checkbox"/> Microelectronics & Microsystems	<input type="checkbox"/> Pulsed Power
<input checked="" type="checkbox"/> Partnerships & alliances	<input type="checkbox"/> HR, Finance, & Legal	<input type="checkbox"/> ES&H & Security
<input type="checkbox"/> IT, networks, & facilities	<input type="checkbox"/> Supply chain	<input type="checkbox"/> Other (specify) _____ (ex.: Management)

2. SMU: Indicate which SMU(s) this project supports (required)? _____NW_____

3. **Description of accomplishment:** Be brief (**85 words**) and lively. Remember that this is for a general audience. Emphasize significance and/or potential application, interest to customers, etc. Avoid acronyms. Include center numbers at end of item for all centers that made significant contributions. Accomplishment should have occurred largely during FY08.

[Write here: 85 words or less]

National Transportation Safety Board Bridge Collapse Review

Members of 1500 provided an independent peer review of the structural analysis supporting the National Transportation Safety Board investigation into the Minneapolis bridge collapse. On August 1, 2007, the I35W Bridge across the Mississippi River collapsed suddenly, resulting in 13 deaths and 145 injuries. In a briefing to the NTSB chairman in advance of public hearing on the investigation findings, the Sandia team substantiated the probable cause of failure as a design flaw as opposed to corrosion.

4. **Illustrations:** IMPORTANT: If you have a photo, drawing, or chart, please provide it, along with a brief caption. Submit electronically via e-mail in jpg, tif, PhotoShop, or other common format. (PowerPoint images or images embedded in Word files don't work as well.) Please be sure to label any separate graphics file in such a way that it can be readily associated with the written submission.

[Caption here: Please note filename for graphic]

5. **Submitted by:** (include name, phone, org. number, and email):

Questions: Call John German (3651) at 505-844-5199	MS 0165; jdgerma@sandia.gov
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