

Sandia National Laboratories

Presentation Title

Presenter
Title

Date

Exceptional Service in the National Interest



Sandia National Laboratories is a multi-program laboratory operated and managed by Sandia Corporation, a wholly owned subsidiary of Lockheed Martin Corporation, for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-AC04-94AL85000. SAND2010-XXXX



Sandia
National
Laboratories

Sandia's History

“Exceptional service in the national interest”

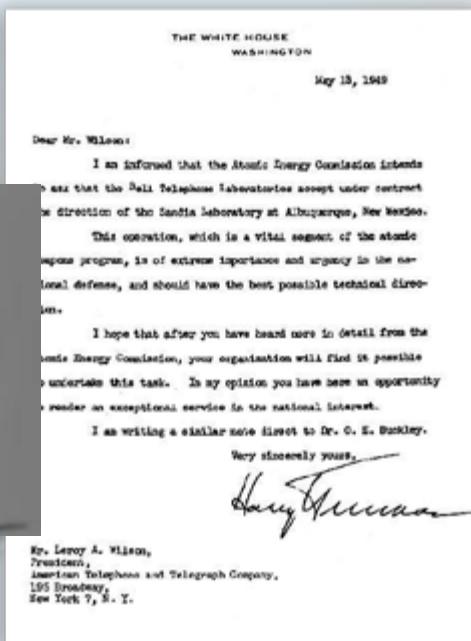


Yours,

I hope that after you have heard more in detail from the Atomic Energy Commission, your organization will find it possible to undertake this task. In my opinion you have here an opportunity to render an exceptional service in the national interest.

I am writing a similar note direct to Dr. C. E. Buckley.

Very sincerely yours,



Sandia's Governance Structure



MANAGED FOR DOE BY SANDIA CORPORATION
A LOCKHEED MARTIN COMPANY

Government-Owned
Contractor-Operated



Sandia Corporation

- AT&T: 1949–1993
- Martin Marietta: 1993–1995
- Lockheed Martin: 1995–Present
- Existing contract expires 9/30/12



Federally
Funded
Research &
Development
Center

Sandia's Sites

Albuquerque,
New Mexico



Livermore,
California



Las Vegas,
Nevada



WIPP,
New Mexico



Kauai,
Hawaii



Pantex, Texas



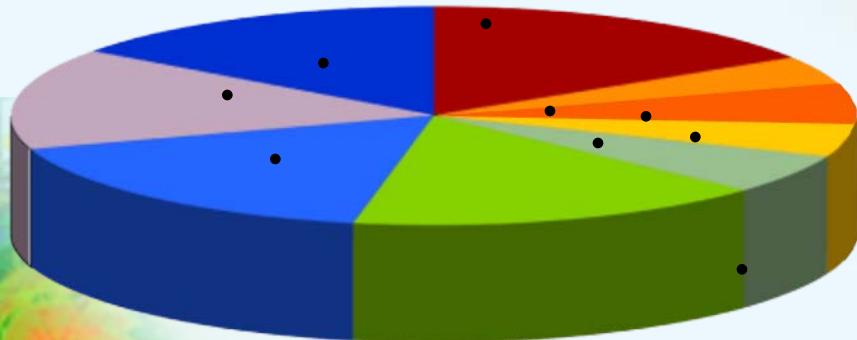
Tonopah, Nevada



People and Budget (According to 2009 Annual Report)

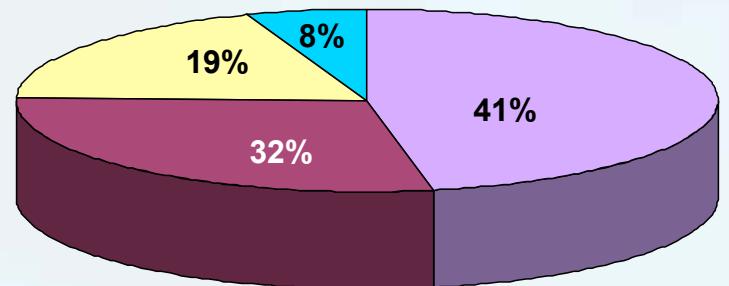
- On-site workforce: 11,400
- Regular employees: 8,250
- Gross payroll: ~\$900 million

Technical staff (3,850) by discipline:



- Electrical engineering 21%
- Mechanical engineering 16%
- Other engineering 15%

FY10 operating revenue
\$2.4 billion



(Operating Budget)

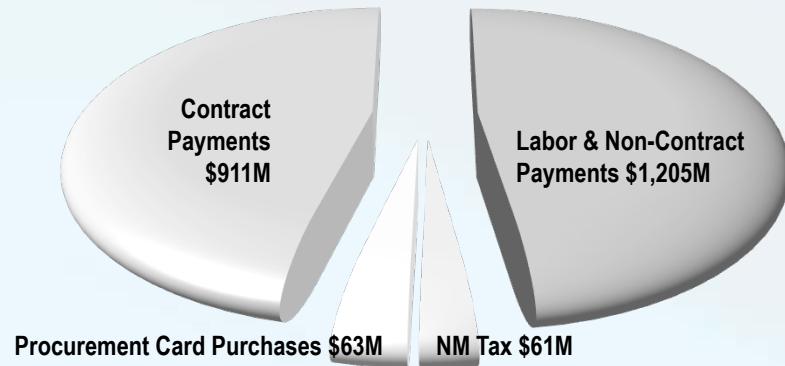
- Nuclear Weapons
- Defense Systems & Assessments
- Energy, Climate & Infrastructure Security
- International, Homeland, and Nuclear Security

- Computing 16%
- Math 2%
- Chemistry 6%
- Physics 6%
- Other science 6%
- Other fields 12%



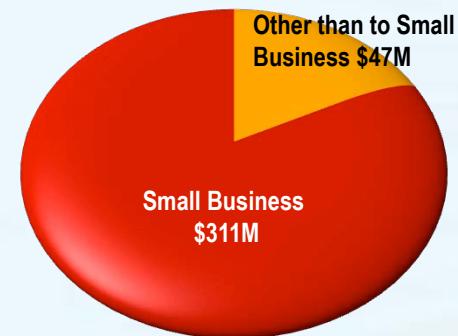
New Mexico Economic Impact (FY09)

Total Laboratory (\$2,240M)



- New Mexico payroll exceeds \$900,000,000
- 2,400 contractors
- 300 year-round student interns
- 3,600 retirees living in New Mexico
- New Mexico retiree pension payments approximately \$150,000,000

Contract Payments to New Mexico Businesses



Addressing our evolving national security environment is of the greatest importance

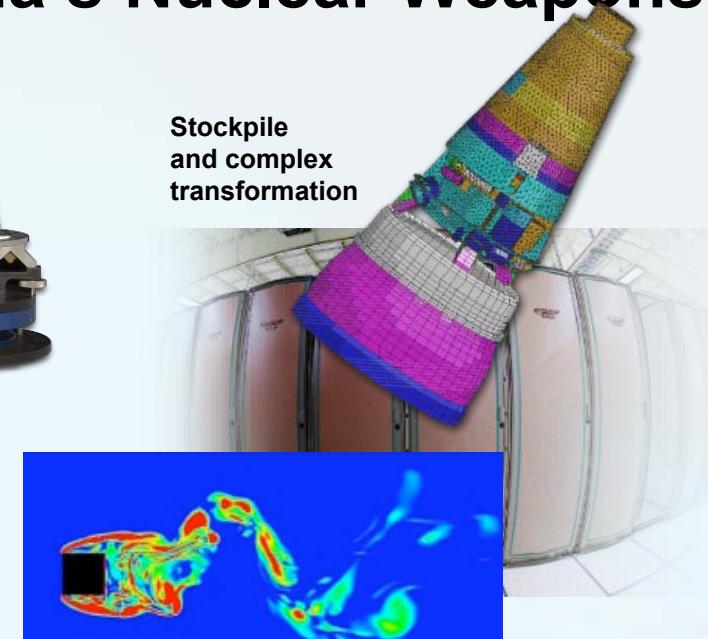


Sandia's Nuclear Weapons Program

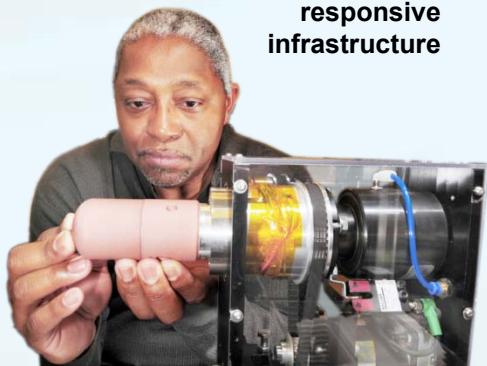


Weapon system
and component
engineering

Stockpile
and complex
transformation

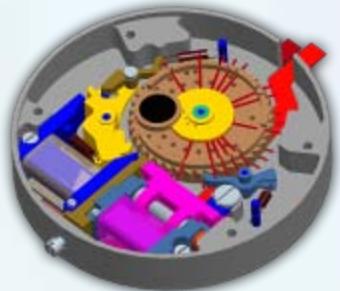


Modeling and simulation

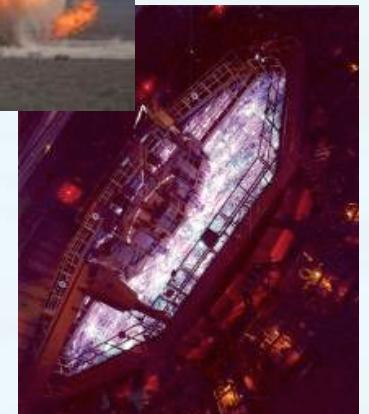


Production and
responsive
infrastructure

Enhancing the safety
and security of the
stockpile



Testing and
evaluation

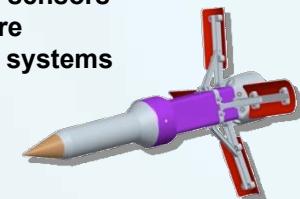
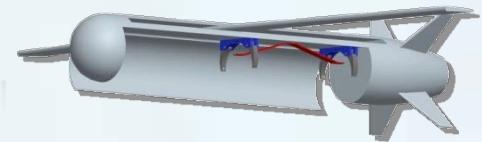
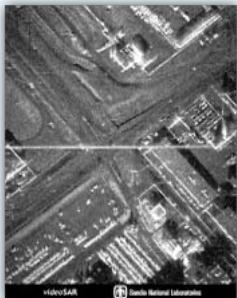


Annual Stockpile Assessment



Sandia's Broad National Security Role

Defense Systems & Assessments



International, Homeland, and Nuclear Security



Energy, Climate, and Infrastructure Security

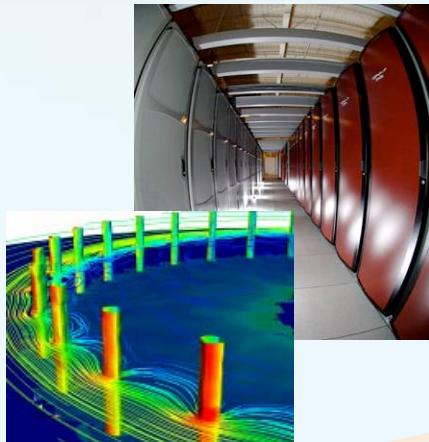
Infrastructure



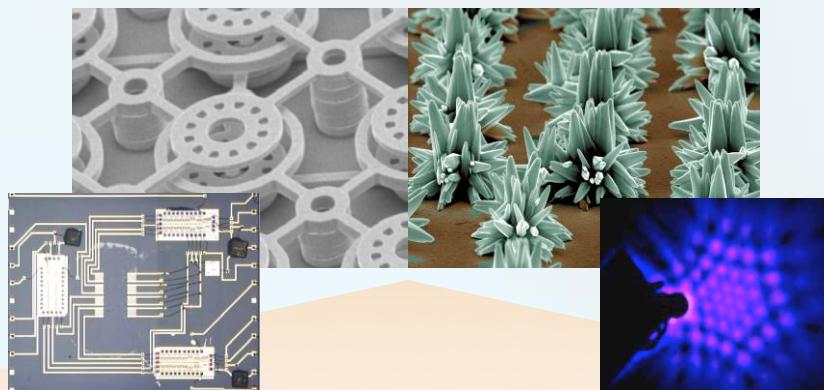
Energy supply



Research Disciplines Drive Capabilities



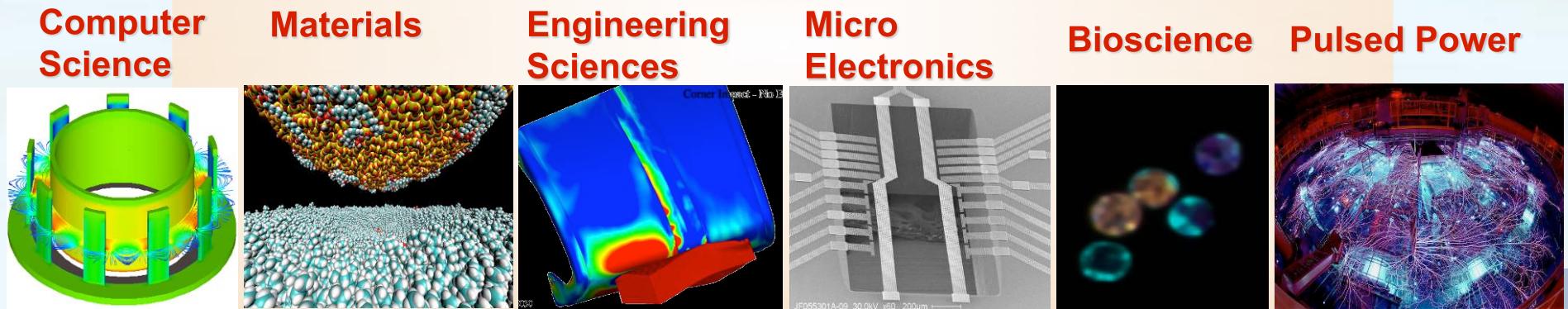
High Performance Computing



Nanotechnologies & Microsystems



Extreme Environments



Research Disciplines

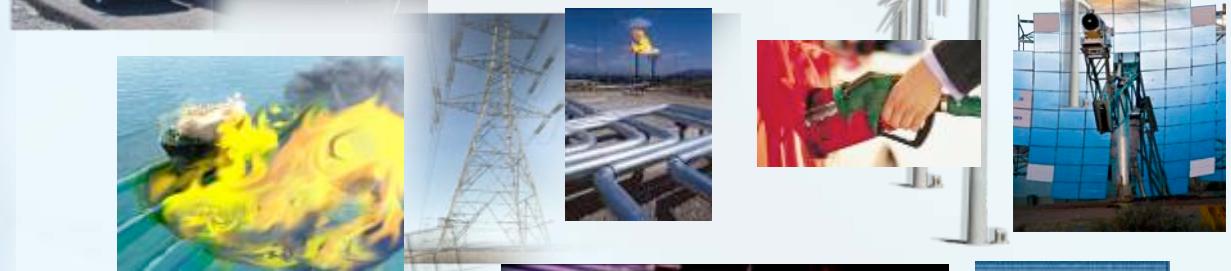
Emerging National Security Thrusts



Nuclear



Energy



Cyber



Science &
Technology



Corporate Strategic Thrust: Energy Security



Assuring Operational Energy:

- Renewable Energy Integration
- Component and System Reliability
 - Secure Micro-grids
- Safe, Cost Effective Energy Storage
- Cyber Secure Smart Controls

Energy/Climate
S&T



Reducing Oil Dependence:

- Combustion Efficiency
 - Alternative Fuels
- Safe/Reliable Batteries

Assessing Climate Change:

- Atmospheric Measurements
 - Regional-scale Models
- Consequence Assessment

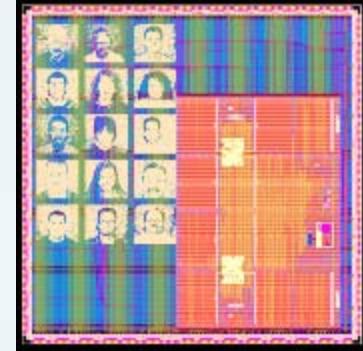


Corporate Strategic Thrust: Cyber Security



- Attackers rule, disasters likely
- Short-term measures essential but insufficient
- New technology can catalyze major changes
- Only a national initiative will make a real difference

Secure
microcontroller
for SAASM



Critical infrastructure management by IT and
automation (SCADA) systems

Partnerships and collaboration accelerate innovation



Fifty Years of Generous Giving

- Last year, Sandia's employees in New Mexico and California donated \$4,047,3600
- 77 percent of employees participated
- 950+ registered volunteers
- 122,000 volunteer hours
- \$2 million/year in volunteer services back to the community

