

# *Director's Perspective*

*Issues Affecting Long-Term Health of the Institution*

George H. Miller, Director

Presented to:  
The Secretary of Energy  
Advisory Board

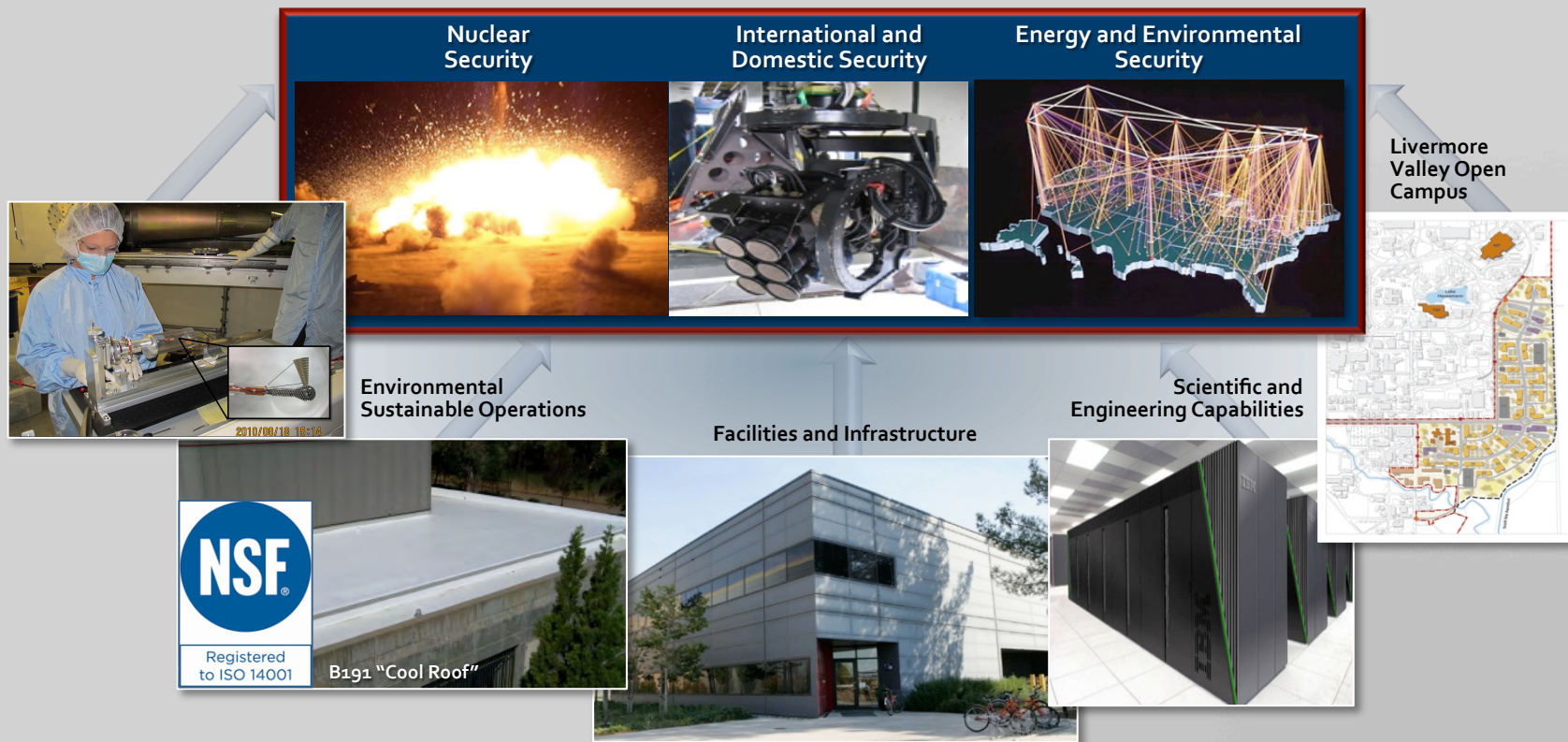
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# Long-term health depends on enduring investment in missions, an outstanding workforce, scientific capabilities, and efficient and safe operations

## Broad National Security Programs *Sustainable Missions*



# My perspective on the future

- **The US is engaged in a global war on many fronts**
  - Asymmetric threats to our national security
  - Environmental threats
  - Sustainable approach to energy sufficiency
  - Economic competition
- **Science, technology, engineering, and systems analysis are major tools in these wars and future challenges**
- **The DOE/NNSA Laboratories provide precious assets to the US science, technology, and engineering community**
  - Their history and character is to successfully take on challenges that are beyond the “state of the art”
  - Their responsibility is to commit to dramatic improvement in technical capability

**Beyond what is required for safe, secure operations, the country cannot afford to waste any of its science, technology, and engineering talent on bureaucratic inefficiency**

# Challenges and opportunities facing the Laboratory over the next five years

- **Meeting programmatic mission needs**
  - Weapons
  - NIF
  - Global Security
  - Energy and environment
- **Sustaining the infrastructure and Laboratory capabilities**
  - Physical
  - Science, technology and engineering
- **Recruiting and retaining the next generation of the best and brightest**
- **Developing efficient and effective processes**
- **Securing financial resources for investment in the Nation's future**

# Leverage capabilities in people and tools to meet a wider range of National Security needs



# The Livermore Valley Open Campus is a major enabler for our applied energy strategy

The interim HPC Innovation Center modular building



## Central focus is the application of high performance computing

- Plan to site Ten petaflops of HPC capacity for the open campus
- Continuing interest by major organizations

## ***Proposed new computer building (~\$9.9M)***

- *A new facility in the Open Campus is in design with bids planned by October 30*

## **Program development status**

- Direct DOE funding under discussion
- Need a clear path for alternate approach to site development



Architect's rendition of the future Livermore Valley Open Campus

# Efforts to improve ESH&Q management systems and to reduce transactional oversight

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug-Sep
<ul style="list-style-type: none"> <li>• OHSMS 18001 Document Review</li> </ul>	<ul style="list-style-type: none"> <li>• ISO 14001 MSA and Internal Independent Review</li> </ul>	<ul style="list-style-type: none"> <li>• OHSMS 18001 Readiness Review</li> </ul>	<ul style="list-style-type: none"> <li>• ISMS Effectiveness Review</li> <li>• ISO 14001 Surveillance Audit</li> </ul>	<ul style="list-style-type: none"> <li>• FY 2012 SPOMC submitted</li> </ul>		<ul style="list-style-type: none"> <li>• OHSMS 18001 Registration Audit</li> <li>• HS-64 Audit</li> </ul>	<ul style="list-style-type: none"> <li>• OHSMS Certification</li> <li>• ISO 9001 Gap Assessment &amp; Project Plan</li> </ul>

## ISO 14001 (Environmental Management System) accreditation has been in place for 24 months

- Two successful surveillance audits in FY 2011— focus is on system of continuous improvement
- On the cusp of order reduction

## OHSMS 18001 (Health and Safety) accreditation achieved September 7

- Registration audit: July 25-28; successful registration in FY 2011
- Program will be integrated with 14001
- Negotiating with DOE's Livermore Site Office to integrate with annual Integrated Safety Management System (ISMS) deliverables and focus on streamlining focus processes

## ISO 9001 (QA) registration commitment is by end of FY 2013

- QA system is keystone of third party accreditations as recognized international standard
- Independent gap analysis and Implementation Plan delivered for FY12 project start

# Director's Assessment

- **Reasons for hope**
  - Incredible talent of our people and their passion for our mission
  - Singular importance of the Laboratory's capabilities which help solve some of the country's most important challenges
  - Continued national dialogue that has placed the sustainment of the nuclear deterrent at a very high priority
  - Renewed attention on the Laboratory's capabilities by the broader national security community in helping to solve their problems
  - FFRDC concepts are increasingly part of discussions with senior leaders in Washington in approach to national problem solving

