

# Sandia National Laboratories

Presentation to the

## **Society for the Marketing Professional Services**

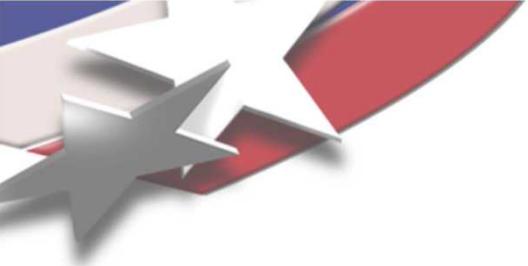
Nydia Schmidt

GPP Program Manager, Facilities Project  
Planning & Development



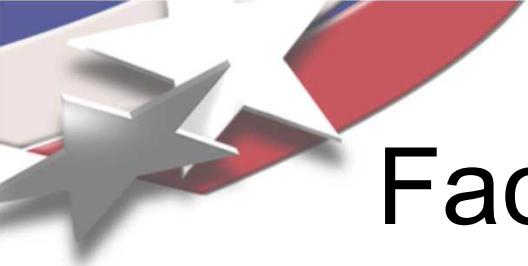
# Sandia National Laboratories

Sandia is a government-owned/contractor operated (GOCO) facility. Lockheed Martin manages Sandia for the U.S. Department of Energy's National Nuclear Security Administration. We seek collaborative partnerships on emerging technologies that support our mission.



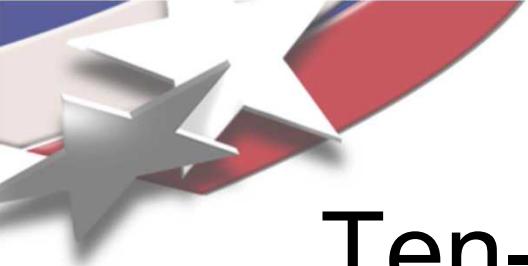
# Organization

- Infrastructure Operations & Business Management (VP 10000)
  - Facilities Management & Operations (10800)
    - Planning
    - Corporate Projects
    - Customer Funded
    - Maintenance
    - Other Orgs



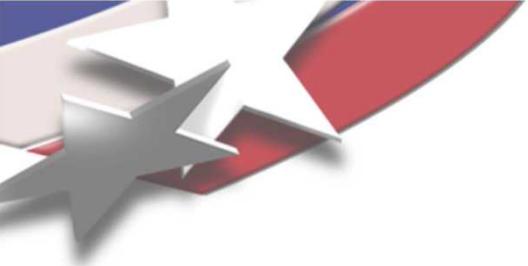
# Facilities Management & Operations Vision

The Facilities Management & Operations Center provides physical assets fit for the Sandia line organizations' use and provides the Laboratory Institutional control of those assets



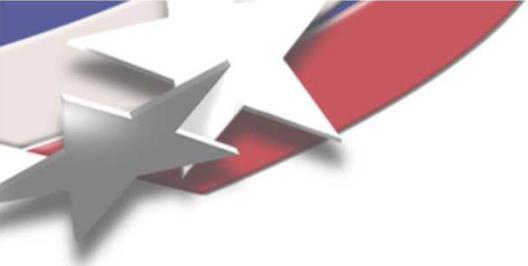
# Ten-Year Site Plan (TYSP)

Integrates the NNSA and non-NNSA mission needs with budgetary constraints to produce a realistic and achievable near-term plan for operating and maintaining facilities and infrastructure, as well as a long-term vision of what is needed to improve the Site and meet future technical requirements.



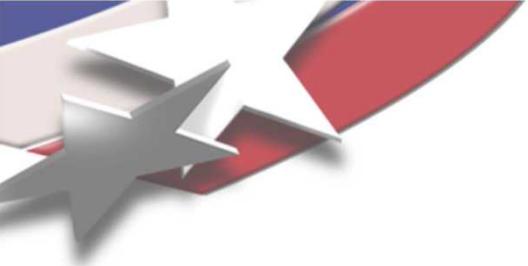
# Type of Projects

- **Line Items** - separately identified capital project activities specifically reviewed and approved by Congress as a line item in the Federal budget
  - Funding Range - \$5M and above



# Type of Projects

- **General Plant Projects (GPP)** – Capital projects that provide for the design and construction of improvements to land, buildings, and utility systems
  - Funding Range - \$25,000 - \$5M

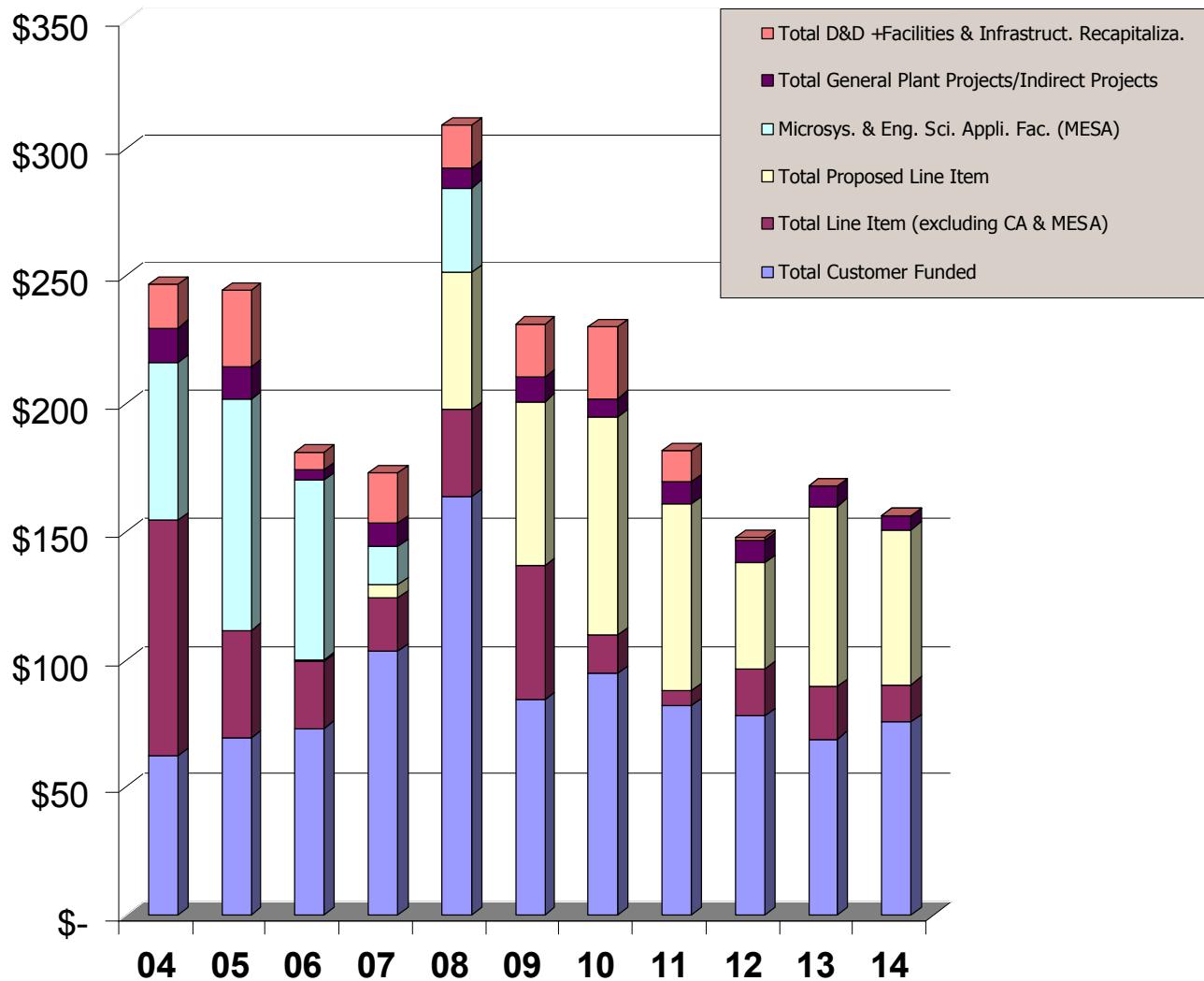


# Type of Projects

- Major Renovation – \$250K - \$5M
- IGPP – Institutional General Plant Projects – Up to \$5M
- O&M Restoration - Repair or replacement of major building equipment, components, or an entire building system, if the building is in good condition

# Sandia Facilities Work Projections

## New Mexico





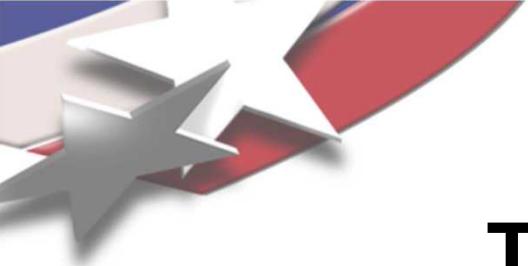
# Microsystems Engineering and Systems Applications Project (MESA)



**Total Estimated Costs:**  
\$462 million

**Status:**  
In construction, MicroFab and MicroLab completed

- Provides facilities & equipment to enable design, integration, and qualification of microsystem components
- Three facilities (MicroFab, MicroLab & WIF) associated with the infrastructure, utilities & retooling of MDL
- Total of 391,000 sf for 648 personnel



# Weapons Evaluation Test Laboratory (WETL)

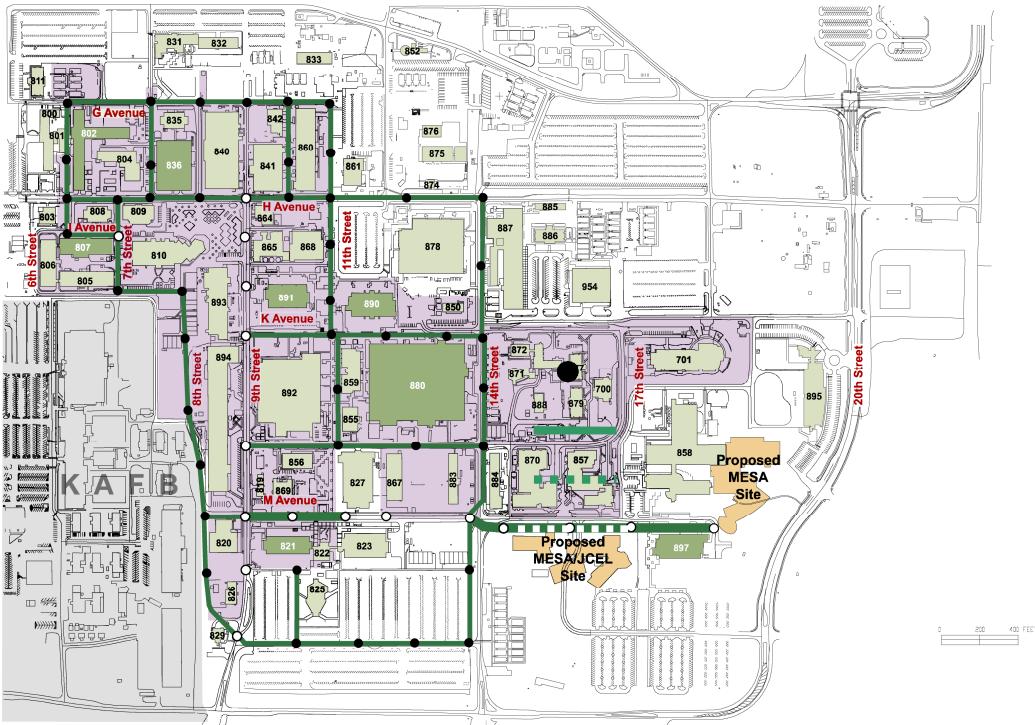


**Total Project Costs:**  
\$28 million  
**Status:**  
Close-out

- 31,400 sf of state-of-the-art laboratory designed to test weapon component devices
- Located at Pantex in Amarillo, TX and operated by SNL



# Exterior Communications Infrastructure Modernization (ECIM)



# Total Project Costs: \$25 million

## Status:

# In Construction

- Upgrade, renovate, refurbish, and replace the underlying communications infrastructure in the western half of TA I



# Heating System Modernization (HSM)

- Install new local boilers to address heating requirements in TAI, upgrade the TAI gas distribution system as required, abate the current steam pit asbestos, and D&D the steam plant and related systems

**Total Project Costs:**

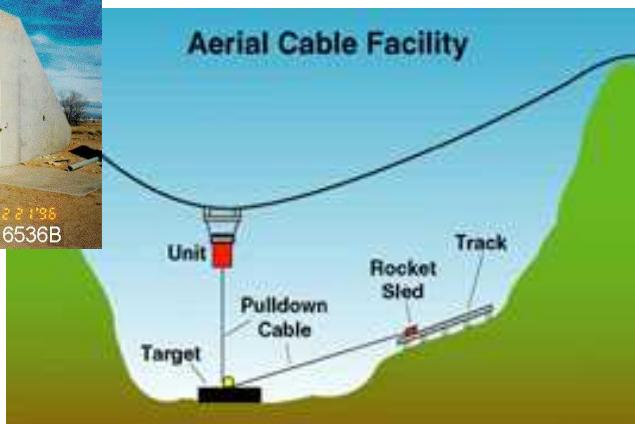
\$59 million

**Status:**

Title II Design



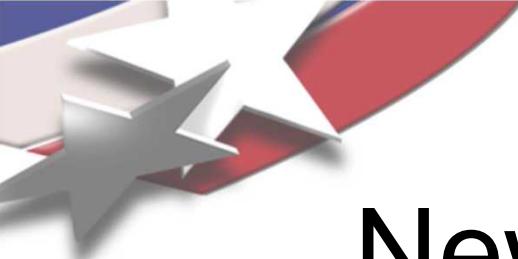
# Test Capabilities Revitalization (TCR)



**Total Project Costs:**  
\$110 million  
**Status:**

**Phase I – In construction,  
Phase II – Title I Design**

- Revitalize test capabilities in areas of weapons qualification, development, surveillance, investigation, and model validation
- Capabilities include TA III Central Services, 10K Sled Track, Aerial Cable, Burn Site, Centrifuge, Dynamic Shock, Thermal Radiant Heat, and Vibration & Acoustics



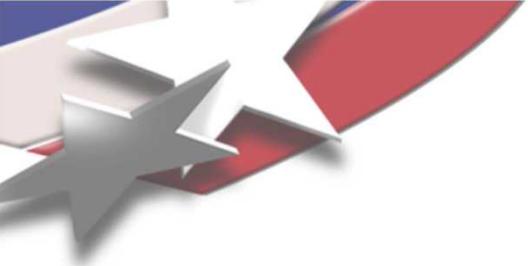
# New Master Substation



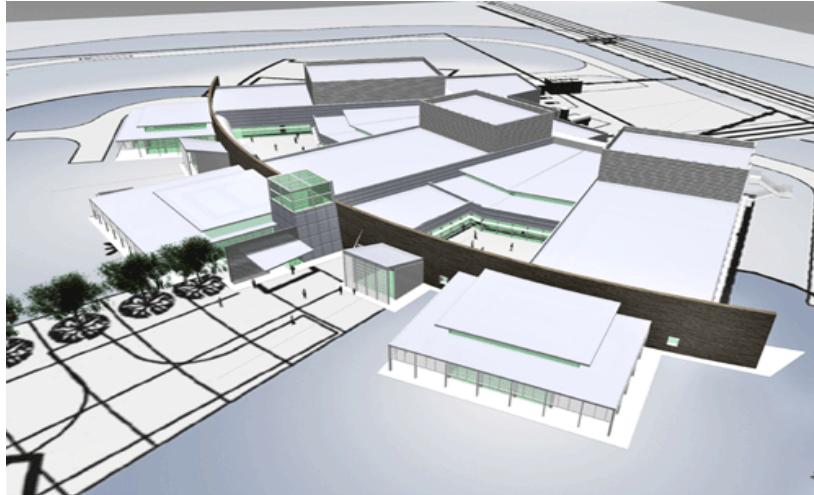
**Total Project Costs:**  
\$9 million

**Status:**  
In Construction

- NMSU is an electric infrastructure system upgrade and Substation connecting the underground distribution grid serving buildings/facilities throughout TA I, II, and IV

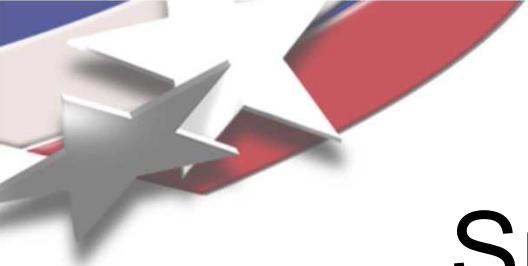


# Center for Integrated Nanotechnologies (CINT)



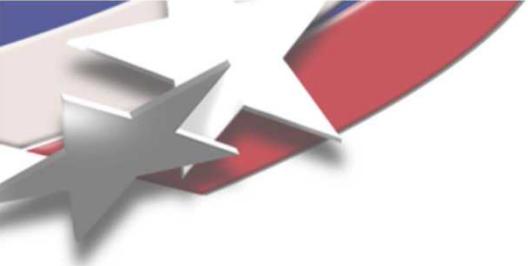
**Total Project Costs:**  
\$59 million  
**Status:**  
In Construction

- 83,000 sf of Nanoscale Science Research Centers
- Distributed center operated jointly by SNL and LANL
- Two new facilities are included in CINT's scope
  - Core Facility in Albuquerque and a Gateway in Los Alamos



# Supplier Partnerships

- Shared information
- Integrated processes
- Mutual improvement plans/shared metrics
- Better value to our customers
- Mutual awareness of expectations and capabilities
- Business best practice



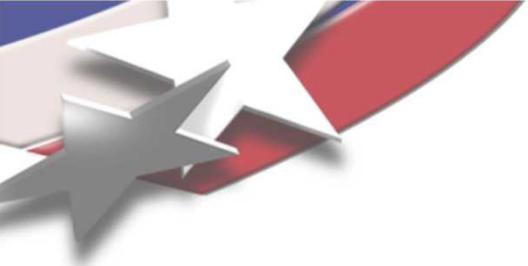
# A/E Partners

- Terradigm Inc. (Estimating/Scheduling)
- Siemens Government Services Inc. (Preventative and Corrective Maintenance)
- DWL Architects & Planners of NM (Landscaping)
- Architectural Research Consultants (Full Service)
- Dekker Perich Sabatini Ltd. (Full Service)
- Chavez-Grieves Consulting Engineers (Full Service)
- Merrick & Co. (Full Service)
- Fanning Bard Tatum Architects AIA Ltd (Full Service)
- Bridgers & Paxton Consulting Engineers (Full Service)
- Van H Gilbert Architect (Full Service)
- Garrett Smith Ltd (Full Service)
- McKown Belangers Associates (Interior Design)



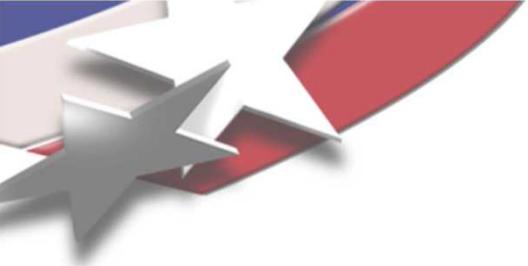
# Construction Partners General Construction Awardees

- Projects up to \$500K
  - Builtek Contractors, Inc.
  - Del Rio Enterprises, Inc.
  - Engineering Constructors, Inc.
  - MV Industries, Inc.
  - TEF Construction Inc.
- Projects between \$500K and \$4M
  - Engineering Constructors, Inc.
  - MV Industries, Inc.
  - Summit Construction, Inc.



# Procurement

- Best Value – Technical evaluation completed for all contractor partners
- Contractor Selection – lowest net price
- A/E partners
  - Firm Fixed Price
  - Time & Material
- Contact: Daniel Stafford 284-6170



# Conclusion

- Various type of projects at Sandia
  - Approximately a yearly \$145+ million program into the foreseeable future
- Sliding budgets –the plan changes constantly
- A/E and contractor partnerships are essential to our work
- We continue to seek collaborative partnerships on emerging technologies that support our mission