

Supply Chain Management

Jodi Maheras
Director, Supply Chain

Sandia National Laboratories

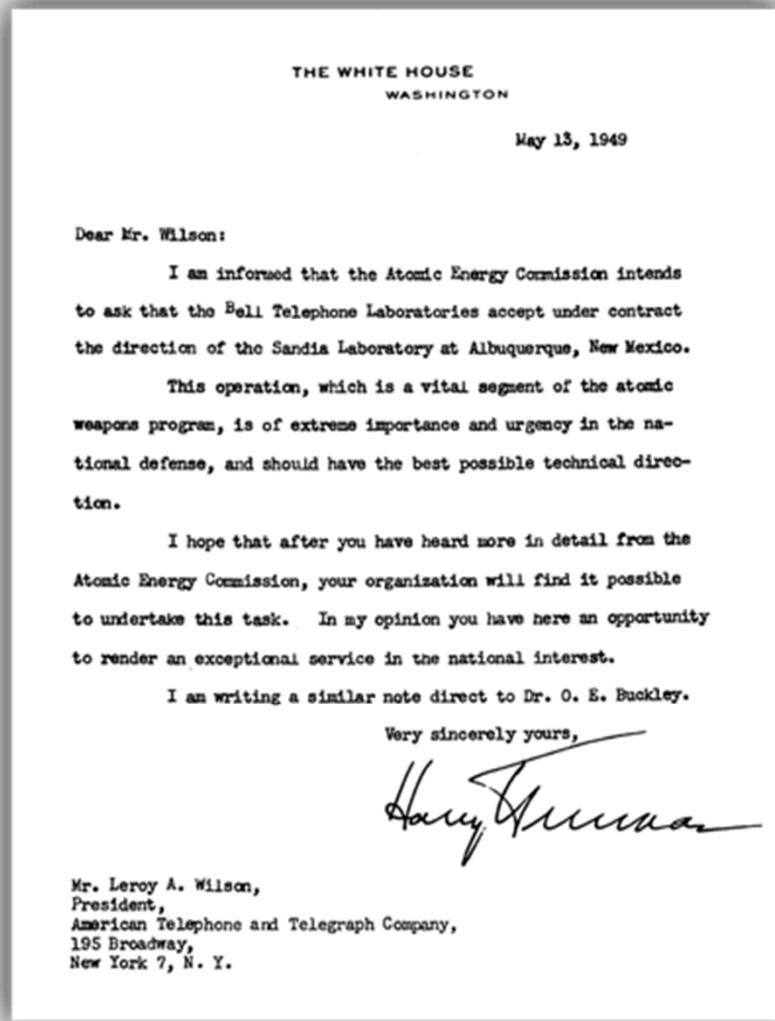


Sandia National Laboratories is a multi-program laboratory managed and operated by Sandia Corporation, a wholly owned subsidiary of Lockheed Martin Corporation, for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-AC04-94AL85000.



SAND#

Sandia's History



Sandia
National
Laboratories

Sandia's Governance History

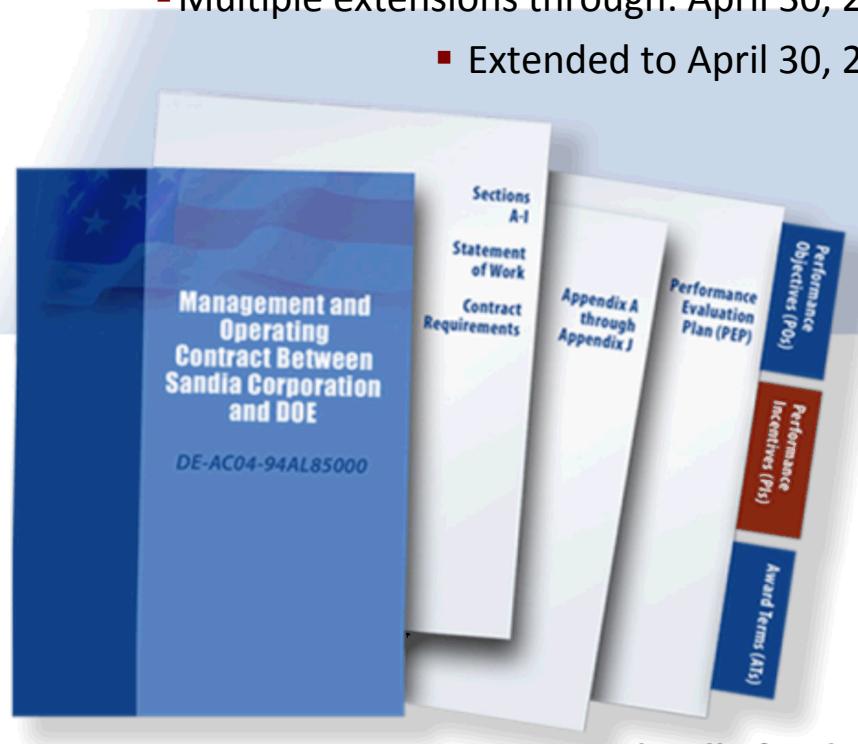


Government owned, contractor operated



Sandia Corporation

- AT&T: 1949 – 1993
- Martin Marietta: 1993–1995
- Lockheed Martin: 1995–present
- Existing contract expired: Sept. 30, 2012
- Multiple extensions through: April 30, 2016
- Extended to April 30, 2017



Federally funded
research and development center



Sandia's Governance Structure



Lockheed Martin Corporation



Sandia Corporation

(wholly owned subsidiary managed by Board of Directors)



M&O Contract DOE/NNSA and Sandia Corporation



**Sandia National Laboratories
(FFRDC)**

Sandia's Sites



Albuquerque, New Mexico



Livermore, California



Kauai, Hawaii



*Waste Isolation Pilot Plant,
Carlsbad, New Mexico*

*Pantex Plant,
Amarillo, Texas*



Tonopah, Nevada

Our Business: National Security



- **Core purpose**
 - To help our nation secure a peaceful and free world through technology
- **Highest goal**
 - To become the laboratory that the United States turns to first for technology solutions to the most challenging problems that threaten peace and freedom for our nation and the globe



The Evolution of Our Mission



1950s

Nuclear weapons

Production and manufacturing engineering



1960s

Development engineering

Vietnam conflict



1970s

Multiprogram laboratory

Energy crisis



1980s

Missile defense work

Cold War



1990s

Post-Cold War transition

Stockpile stewardship



2000s

Post 9/11

National security



2010s

Life Extension Programs START

National security challenges



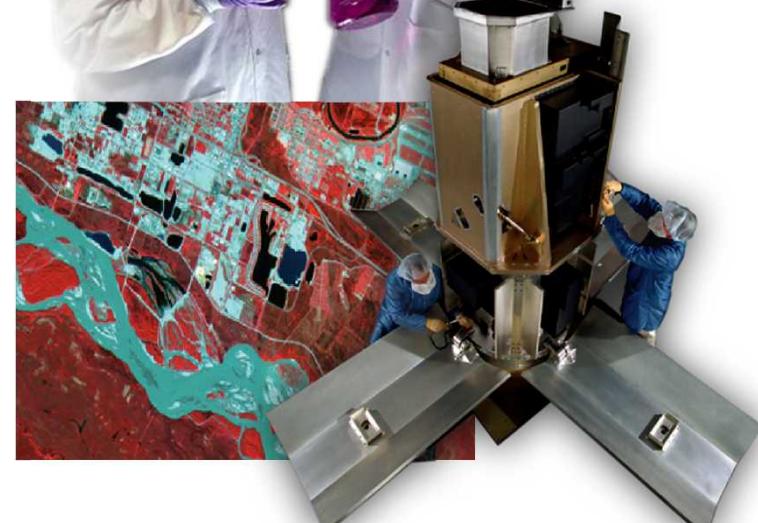
% NW FUNDING

100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%

Technologies for National Security



- **We develop technologies to:**
 - Sustain, modernize and protect our nuclear arsenal
 - Prevent the spread of weapons of mass destruction
 - Provide new capabilities to our armed forces
 - Protect our national infrastructures
 - Ensure the stability of our nation's energy and water supplies.
 - Defend our nation against terrorist threats



Supply Chain Lifecycle





1) Plan



How

What



- \$110M & 100K Purchase Orders (PO)
- 1/5th the Process Cost vs. Standard PO



- \$70M & 80K Transactions
- 1,500 Card Holders



- \$800M & 40K Transactions
- 80 Buyers

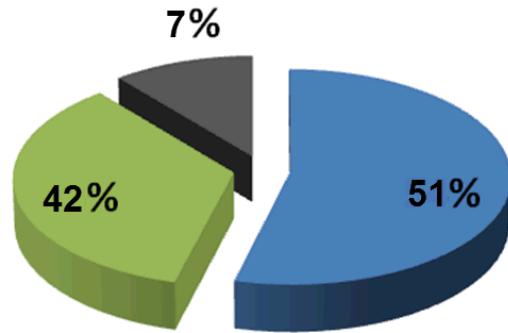




2) Acquire

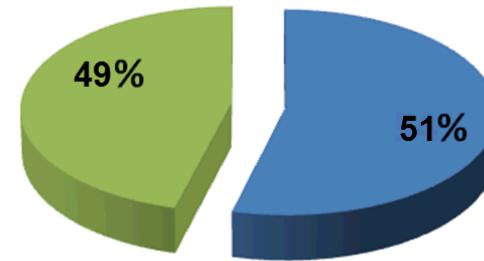


How



- Services
- Products
- Integrated Contractor Orders

What



- Small Business
- Large Business





3) Receive & Move



- 7,000 Outbound Shipments



- 1.0M Incoming and 120K Outbound Items
- 1.4M Internal Items



- 430K Inbound Packages



- 430K Packages Delivered to 400 Buildings
- 72K Items Moved
- 3K Hazardous Moves
- 175 Tours





4) Manage



Asset Management

- 80K Trackable Assets, \$1.5B Value



Fleet Management & Maintenance

- 800 Vehicles & 600 Carts
- 1,400 Pieces of Equipment



Corporate Storage

- 140K ft² of Storage Space



5) Dispose



Asset Disposition

- Includes high risk destruction, recycle, donation, transfers, negotiated sales, auction, and abandonment in place



Reutilization & Disposal

- 50K Items Processed
- 700 Items Reapplied & \$3M Cost Avoidance



Destruction

- Sensitive Documents and Material
- 10K Bags





HOW WE MANAGE OUR SUPPLY CHAIN

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CREATE THE CUSTOMER EXPERIENCE that is excellent, predictable, and repeatable.



BECOME THE CENTER OF CHOICE by attracting and growing professionals w/expert characteristics and competencies.

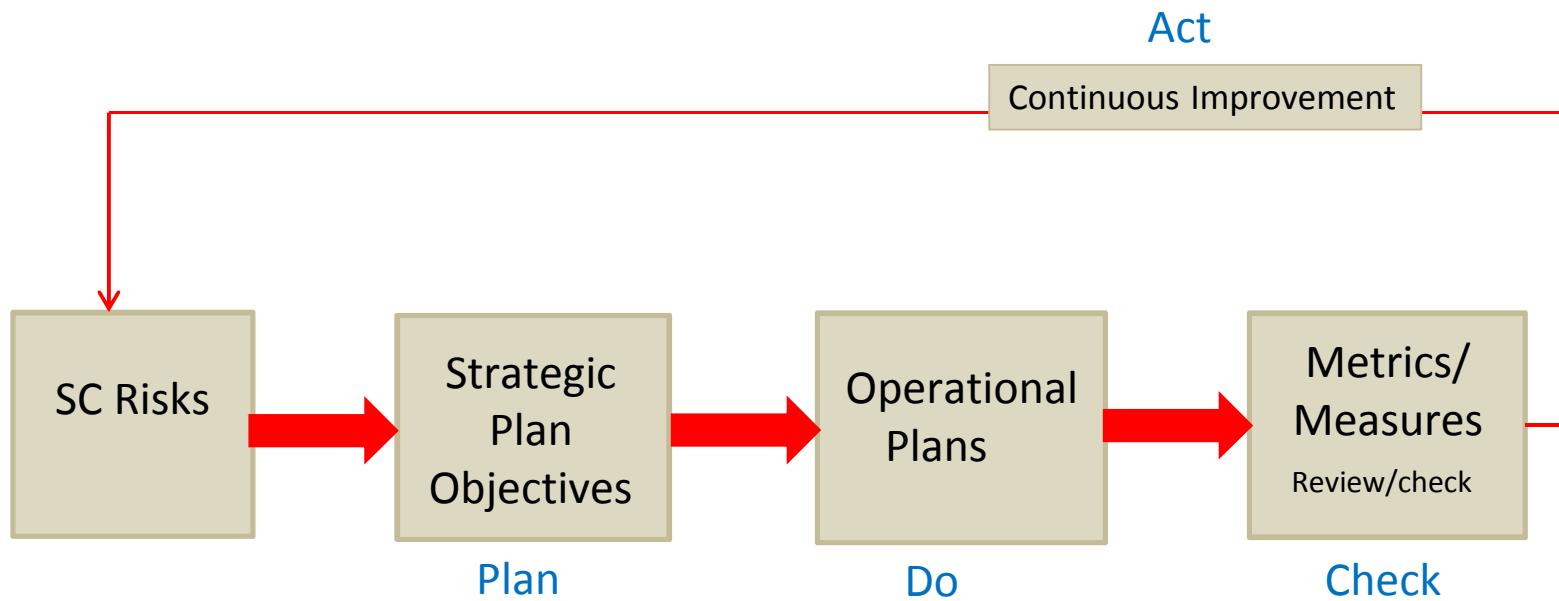


BE THE INNOVATOR of efficient and sustainable solutions for service delivery, life cycle management, and safety performance.



BUILD CONFIDENCE with stakeholders, customers, and members of the workforce by using our management assurance system to manage risk and improve quality.

HOW WE MANAGE OUR SUPPLY CHAIN





GOVERNING

PRIME
CONTRACT

LAWS &
REGULATIONS

CORPORATE
POLICY
SYSTEM



PLAN

RISK
EVALUATION

STRATEGIC
PLANNING

- INTUITIVE SC SOLUTIONS
- CUSTOMER SERVICE
- CENTER OF CHOICE
- BE THE INNOVATOR
- BUILD CONFIDENCE

OPERATIONAL
PLANNING

WORK
PLANNING &
CONTROL

INFORMATION
TECHNOLOGY

PROCUREMENT

- POLICY
- PURCHASING
- JIT

ASSURANCE

- ISO
- METRICS
- S/CI
- SUPPLIER QUALITY
- IT
- P-CARD
- CONT. IMPROVEMENT
- SBUD

ES & H HEALTH/SAFETY CENTER PLAN

DO

LOGISTICS

- SHIPPING
- RECEIVING
- PROPERTY
- FLEET

ACT

CONTINUAL
IMPROVEMENT

PREVENTIVE
ACTION

CORRECTIVE
ACTIONS

CHECK

ASSESSMENTS

CUSTOMER
FEEDBACK

METRICS/
RESULTS

MANAGEMENT
REVIEW

NON-
CONFORMING
PRODUCT

BENCHMARKING



KNOWLEDGE
MANAGEMENT

ENABLING

EMPLOYEE
DEVELOPMENT &
TRAINING

Supply Chain Risks



Supplier Quality

Operational Excellence



SUPPLIER QUALITY RISKS



Are there suppliers in the marketplace who are willing to perform to our requirements?



Can the supplier perform to our requirements?



Are our suppliers performing with integrity?



OPERATIONAL EXCELLENCE



Safety

Processes

People

OPERATIONAL EXCELLENCE



Challenges

- Diverse operations and workforce
- Complex processes/requirements
- Multiple priorities and governing bodies

OPERATIONAL EXCELLENCE



Mitigation Strategies

- Focus on safety skill development
- Reward Safe Behaviors
- Brilliant at the basics
- Efficiencies/simplification
- Prioritize and focus