

PITTSBURGH 2019

APRIL 16-18, 2019

Doing Business with the DOE's National Nuclear Security Administration

featuring:

Moderator:

Gary G. Lyttek,
NNSA Senior Business Source Manager

Featuring:

**Lawrence Livermore National Laboratory
Los Alamos National Laboratory
Sandia National Laboratories
Y-12 National Security Complex/
Pantex Plant**

New American Energy Era

Doing Business with National Nuclear Security Administration

Who should be here?

- **New to DOE or NNSA**
- **New to DOE subcontracting**
- **Refresher**

Why are you here?

- **Find Opportunities!**
- **How to get and stay connected**

Basic “Stuff”

- In FY2018:
 - Small Business Prime Spend: \$364M
 - Small Business Subcontracting Spend \$2.7B
 - SBs: **54.3%** SDBs: **15.8 %**
 - WOSBs: **10.6 %** HUBZone: **4.5 %**
 - VOSB/SDVOSB: **6.6% & 4.0%**
 - Four Sites ~\$2.1 B small business spend
- Look to NNSA Site Subcontracting

Think
8-to-1!

Doing Business with NNSA

Our Mission

- Enhance national security through **the military application of nuclear science**. NNSA maintains and enhances the safety, security, reliability and performance of the U.S. nuclear weapons stockpile without nuclear testing; works to reduce global danger from weapons of mass destruction; provides the U.S. Navy with safe and effective nuclear propulsion; and responds to nuclear and radiological emergencies in the U.S. and abroad.

Our Small Business Vision

Provide NNSA's programs with only the highest quality, technically superior, and competitively-priced small business suppliers.

Mission Areas

Defense Programs

To sustain a safe, secure and effective nuclear deterrent through the application of science, technology, engineering and manufacturing

Naval Reactors

To provide militarily effective nuclear propulsion plants and ensures their safe, reliable and long-lived operation.



Nuclear Nonproliferation

To detect, secure, and dispose of dangerous nuclear and radiological material, and related weapons of mass destruction technology and expertise

Defense Nuclear Security

To develop and implement security programs for NNSA including protection, control, and accountability of materials, and for the physical security of all facilities of the administration

Emergency Operations

To provide radiological and nuclear emergency response and to provide security to the nation from the threat of nuclear terrorism

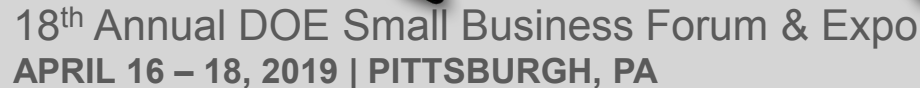
NNSA Guiding Principles

- **Maintain a safe, secure & effective nuclear weapons stockpile**
- **Deliver Life Extension Programs & Major Alts on budget & schedule**
- **Recapitalize & modernize aging infrastructure**
- **Conduct leading-edge scientific research to support nuclear security mission**
- **Prevent, counter & respond to global nuclear threats**
- **Support the naval nuclear propulsion program**
- **Recruit, retain & develop workforce**
- **Protect the safety & security of sites, employees & public**

NNSA Operations

- **Semi-Autonomous Organization**
- **Unique Procurement Authority**
- **FY 2019 Budget Base: ~ \$15.2 B**
- **Management & Operating Contractors (M&O's) fulfill mission work (FY 2018: ~ 90% of funding)**
- **Majority of small business opportunities are with M&O contractors (FY 2018: ~ \$2.7 B)**
- **FY 2018 Federal Small Business Obligations: > \$364 M**

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NNSA INFRASTRUCTURE SNAPSHOT

MAINTAIN. OPERATE. MODERNIZE.

A VAST AND COMPLEX ENTERPRISE

Lawrence Livermore National Laboratory

Nevada National Security Site

Los Alamos National Laboratory

Pantex Plant

Sandia National Laboratories

Kansas City Plant

Y-12 National Security Complex

Savannah River Site

THE CHALLENGE: Aging and Declining Infrastructure



BUILDINGS
OVER 40
YEARS OLD



BUILDINGS
OVER 60
YEARS OLD



BUILDINGS
NO LONGER
IN USE

Vision

Safely operate and modernize our facilities to meet demands now and in the future.

Mission

Maintain, Operate, and Modernize NNSA Infrastructure in a safe, secure, and cost-effective manner to enable program results.

43,000

LABORATORY & PLANT EMPLOYEES

2,540
total lane miles
of paved roads

NEARLY THE DRIVING
DISTANCE FROM DC TO LA



ENOUGH TO
ENCIRCLE THE
DC BELTWAY
24 TIMES

8,000,000
feet of fencing

275,000
total lane-miles
of unpaved roads

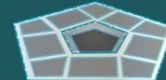


ELEVEN LAPS AROUND THE EQUATOR

2,160
square miles
of land area

ABOUT
THE SIZE
OF DELAWARE

38.5 Million
SQUARE FEET OF
FACILITY SPACE



(six Pentagons worth)

9.5 Trillion BTUs
ANNUAL ENERGY CONSUMPTION



enough to power 250,000 homes

15.2 MILLION FT³
OF HAZMAT

ENOUGH TO FILL ~15
WASHINGTON MONUMENTS

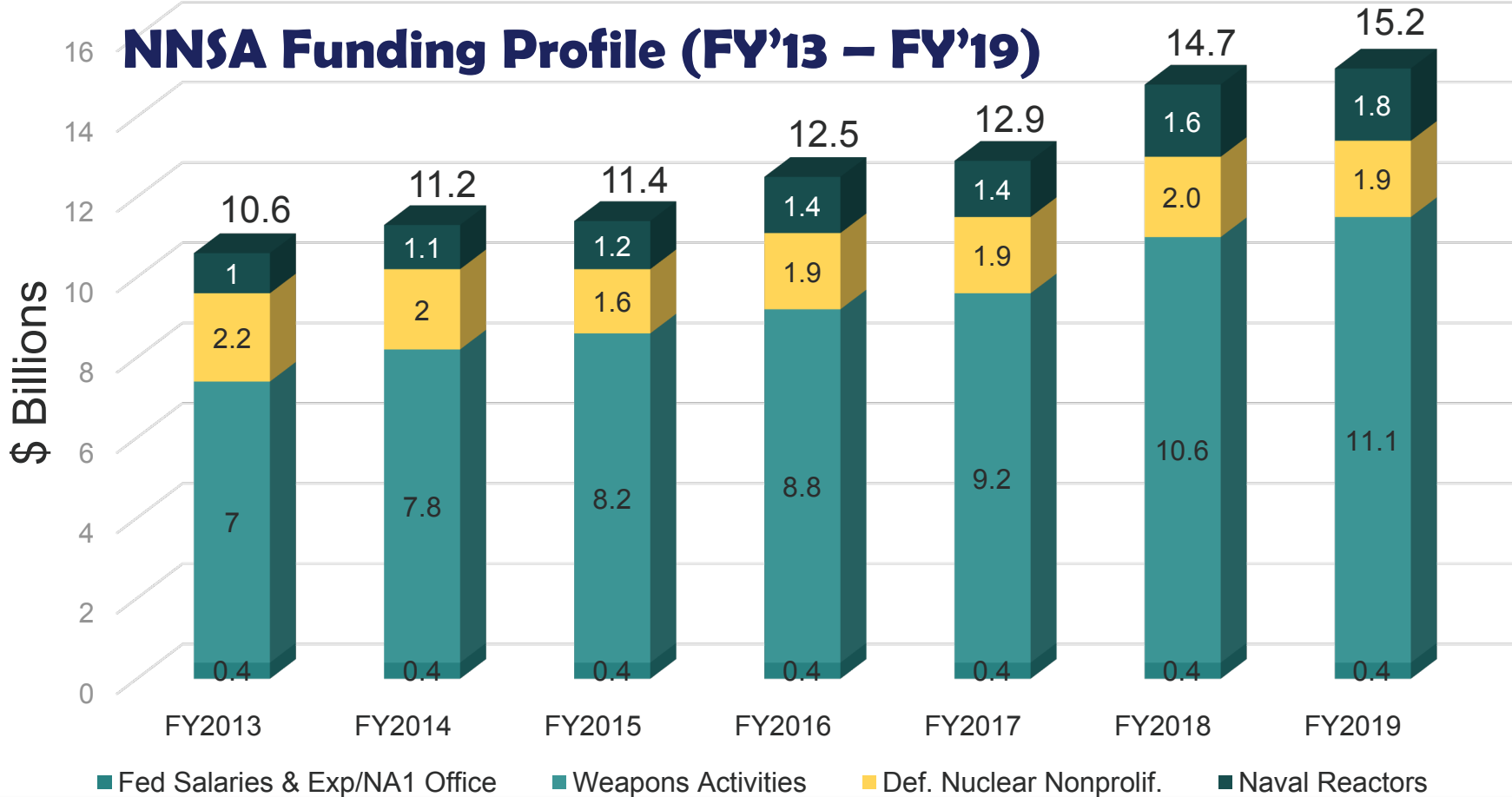


Management and Operating Contracts

- **DOE's M&O contracts began during World War II as contracts of the Manhattan Engineer District that were placed with industrial corporations & academic institutions for research, development, and production of atomic weapons.**
- **After the war, Congress laid out the charter for the newly formed Atomic Energy Commission in the Atomic Energy Act of 1946, which stated:**
 - **Federal government would rely on contractors to perform the work;**
 - **Government responsible for oversight and direction of work; and**
 - **Contractors allowed discretion in carrying out assigned functions.**

M&O Characteristics

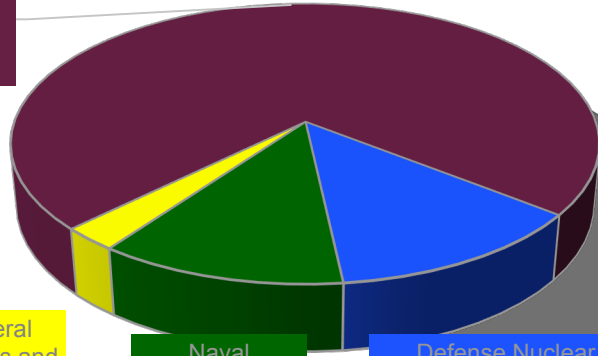
- **DOE/NSA's M&O contracts differentiate them from other types of contracts used by the Federal government, including including:**
 - **Work takes place at large Government-owned or -controlled facilities.**
 - **Generally deal with research, development, or special production, which often can be the source of significant liabilities.**
 - **Work most often performed at relatively isolated locations around the U.S.**
 - **Work is often of a long-term, continuing nature.**
 - **Contractors employ large workforces that usually remain intact without regard to whether the incumbent contractor is replaced.**
 - **DOE oversees workforce safety and health issues at the facilities.**
 - **Contractors are provided an annual budget; some exceeding \$1 billion.**
 - **A close working relationship exists between the contractor and the Government.**



By Appropriation

FY 2019 Budget Enacted = \$15.2B

Weapons
Activity
72.9%
\$11.1B



Federal
Salaries and
Expenses
2.7%
\$.4B

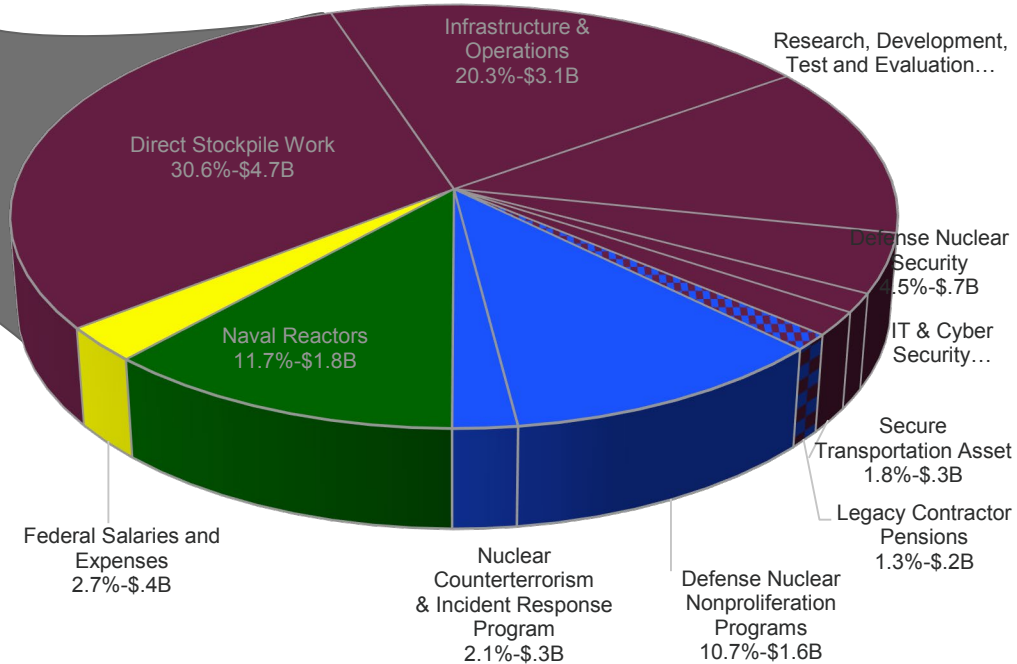
Naval
Reactors
11.7%
\$1.8B

Defense Nuclear
Nonproliferation
12.7%
\$1.9B

FY 2019 Budget Enacted

\$ in Millions	FY 2019
Weapons Activities	\$ 11,100
Defense Nuclear Nonproliferation	\$ 1,930
Naval Reactors	\$ 1,789
Federal Salaries and Expenses	\$ 410
Total	\$15,229

By Program



Federal Salaries and
Expenses
2.7%-\$0.4B

Nuclear
Counterterrorism
& Incident Response
Program
2.1%-\$0.3B

Defense Nuclear
Nonproliferation
Programs
10.7%-\$1.6B

Secure
Transportation Asset
1.8%-\$0.3B

Legacy Contractor
Pensions
1.3%-\$0.2B

Session Evaluations

Reminder:

**Please complete the Speaker/Session
Evaluation Form located in the
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Thank you!



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