



Exceptional service in the national interest

# The End of the Cold War at Sandia

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JOWOG 46

LOS ALAMOS NATIONAL LABORATORY

April 27, 2022

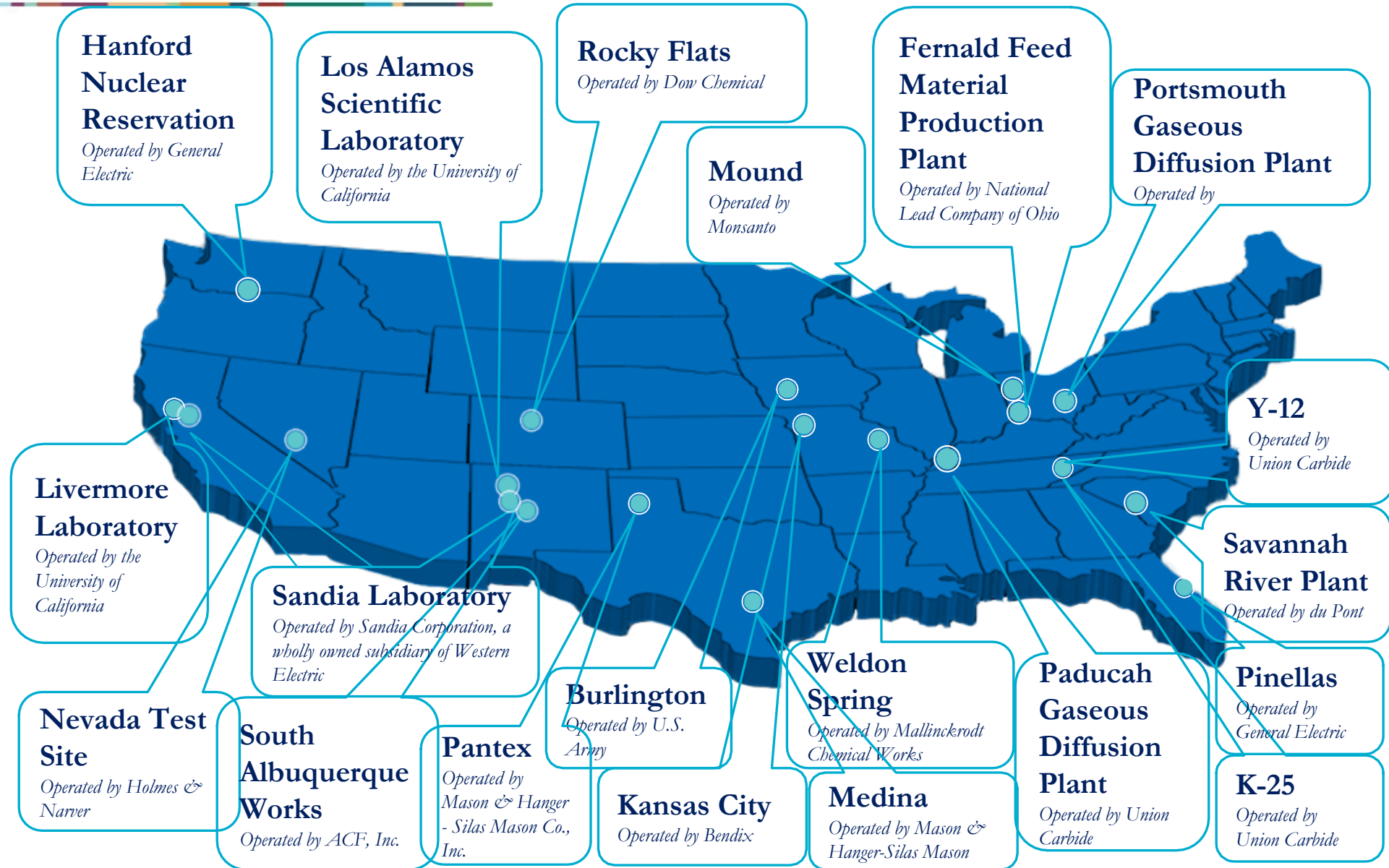


Sandia National Laboratories is a multimission laboratory managed and operated by National Technology and Engineering Solutions of Sandia LLC, a wholly owned subsidiary of Honeywell International Inc. for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-NA0003525.

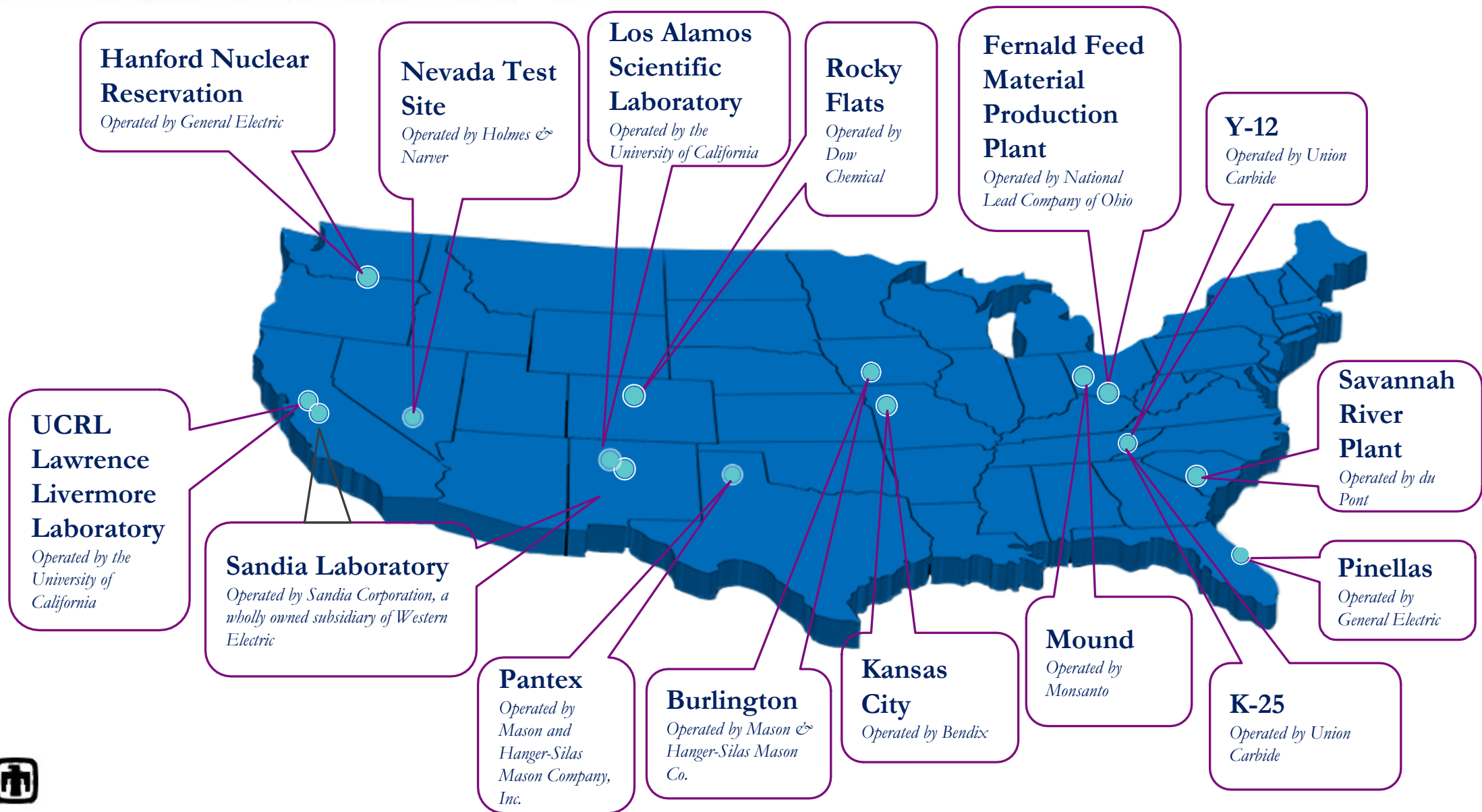
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# Nuclear Weapons Complex - 1958

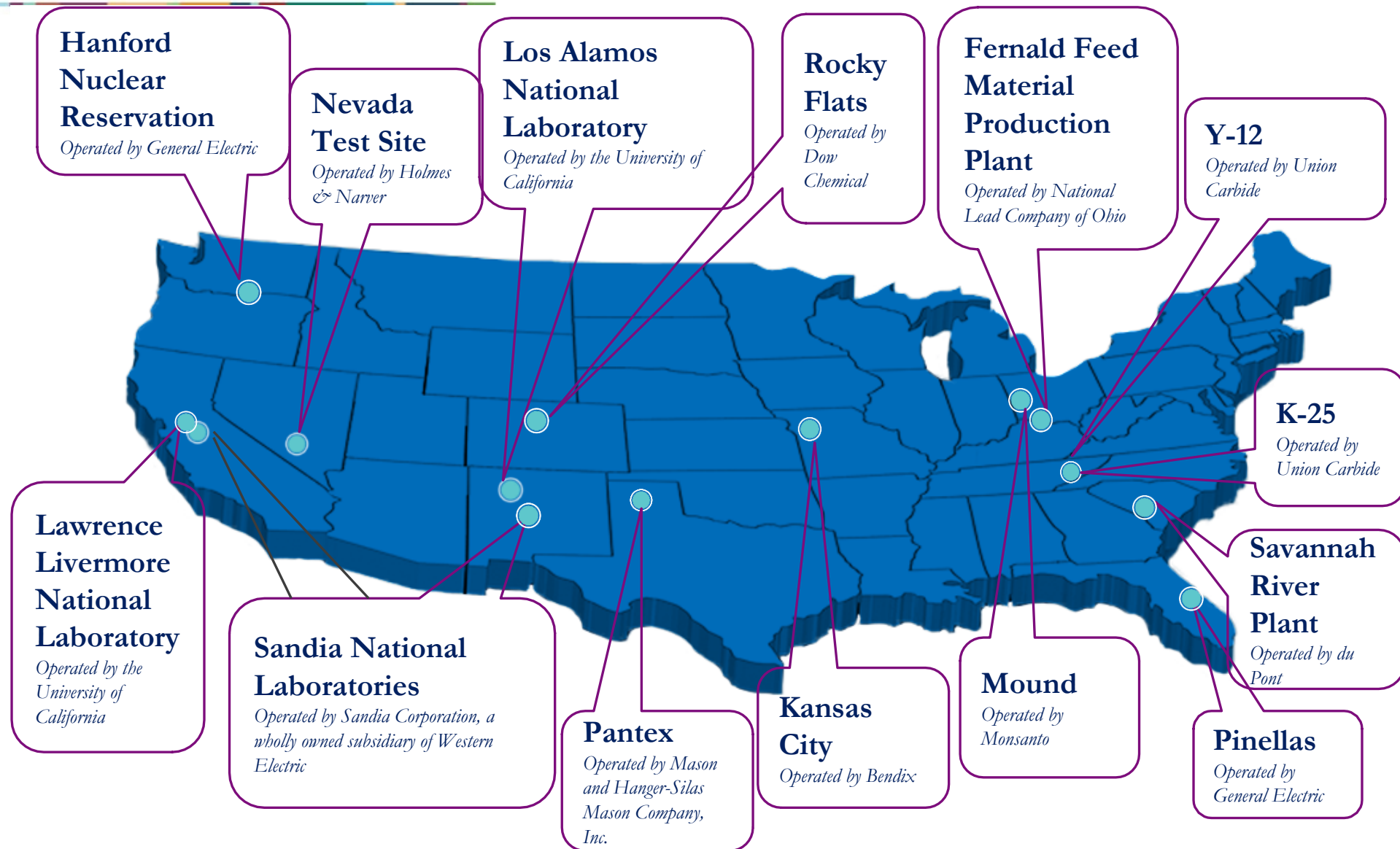


# Nuclear Weapons Complex - 1968





# Nuclear Weapons Complex - 1980





# The Final Decade (without knowing it) – Treaties

President Ronald Reagan and General Secretary Mikhail Gorbachev—in Geneva (right) and signing the Intermediate-Range Nuclear Forces Treaty (below)

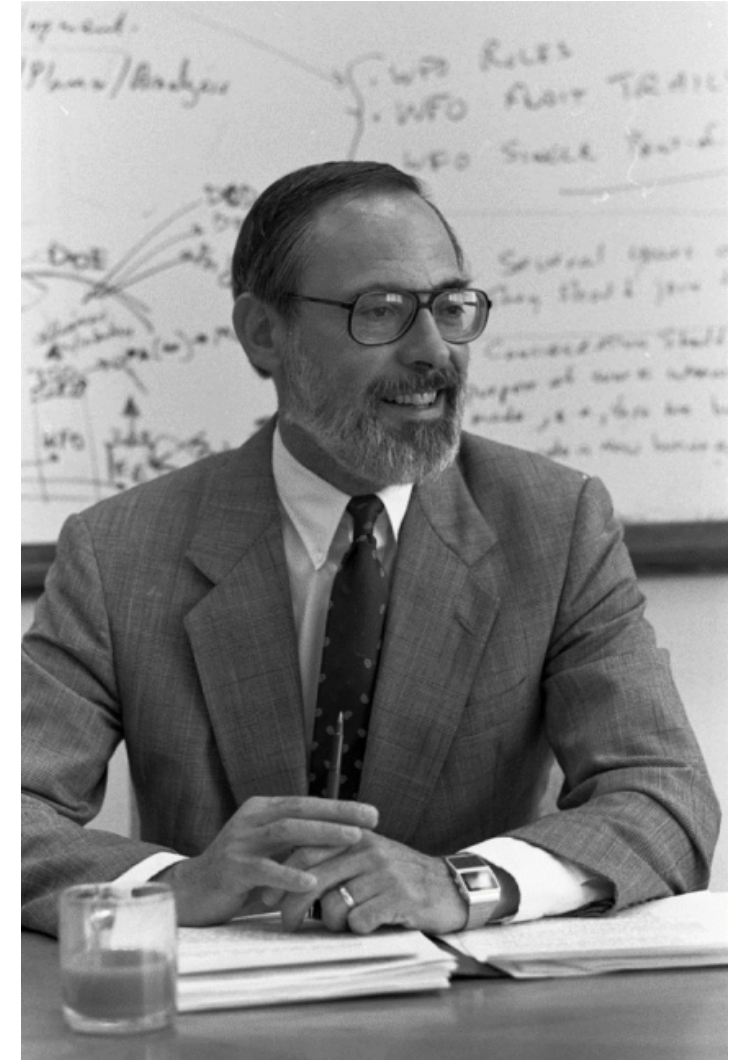


# The Final Decade - Tech Transfer



Technology Transfer Center groundbreaking, 1983

Harry Kinney, Albuquerque mayor; Senator Pete Domenici; Col. Gary Mears, KAFB commander; George Dacey, Sandia president; and Ray Romatowski, DOE/AL manager



Gerry Yonas



# The Final Decade – Environmental Programs Start



Gloria Chavez Millard uses radiation detector to check the integrity of stored drums of low-level nuclear waste awaiting disposal, 1989



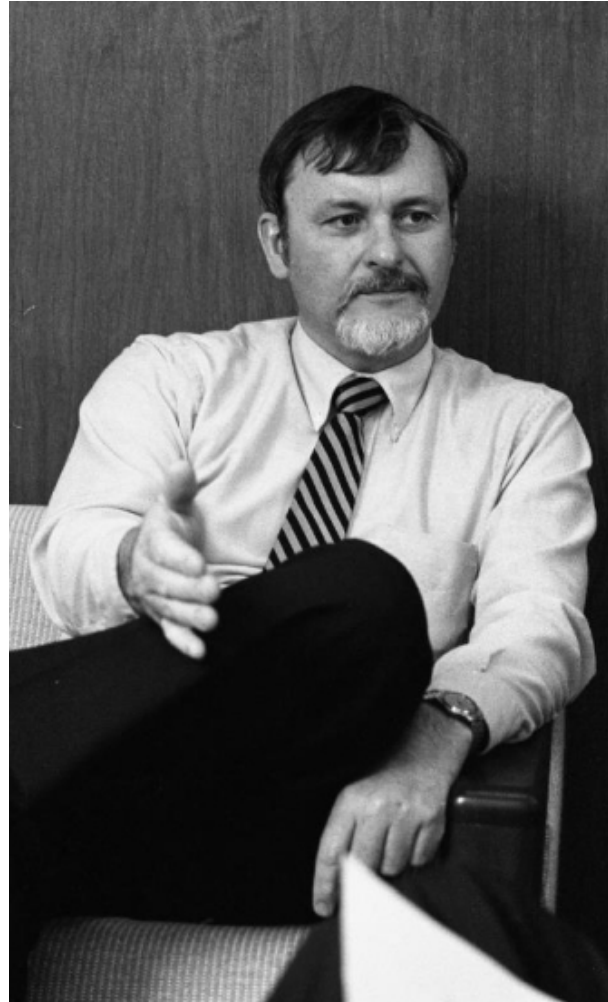
Phyllis Pei of the Environmental Protection Group and Nestor Ortiz, Director of new Environment, Safety, and Health Organization check barrels of waste prepared for shipment to disposal site, 1988



# Leadership as the Cold War ended



Promoted to Director of  
Solid State Sciences  
Research, May 1968

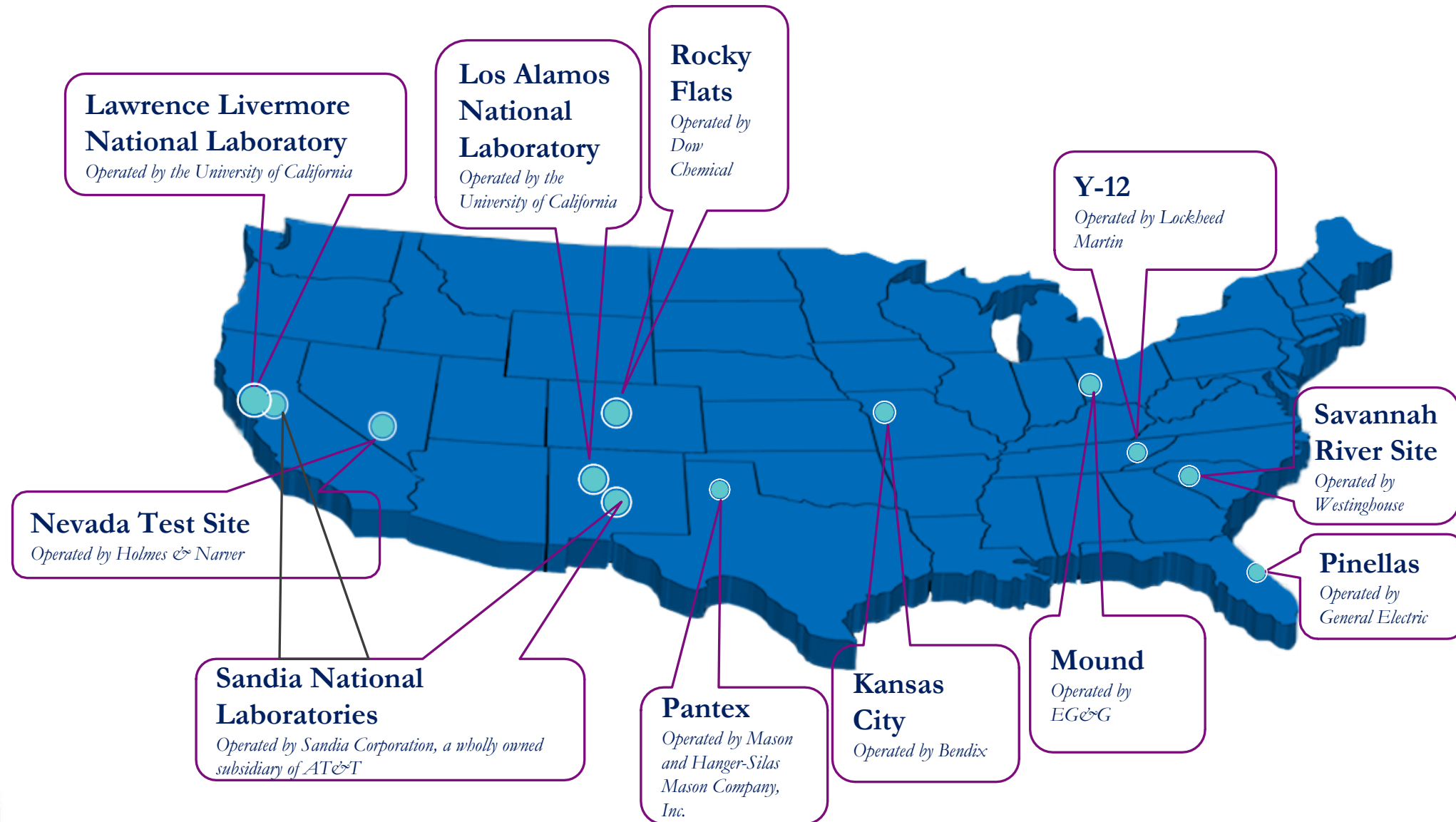


Left Sandia for AT&T Bell  
Labs to be VP of Government  
Systems, 1984



Became Lab Director and  
President of Sandia Corporation,  
April 1, 1989

# Nuclear Weapons Complex - 1989



# Leading into the Cold War's End



Irwin Welber welcoming Al Narath back to Sandia, 1989

Vision for the '90s Day – April 26, 1989  
Approximately 4000 Albuquerque Sandians gathered on Hardin Field to hear leadership's vision for the future and have Thunderbird cookies





# The Cold War Ends



Bringing the Berlin Wall down,  
November 9, 1989

# End of the Cold War – Partnering with Russia



Russian Ambassador Vladimir Lukin and Sandia vice president Roger Hagengruber discuss the Sandia-designed container for transporting and storing fissile material from dismantled Russian weapons; November 1992



# Partnering with Russia



Sandia lab director Al Narath in conversation with Arzamas-16 lab director Yuli Khariton on a flight to Arzamus; 1994



Prof. Nikolay Nikolaevich Ponomarev-Stepnoy, deputy director of the Kurchatov Institute and Sandia VP for Defense Programs Roger Hagengruber sign an agreement that enables Sandia to provide physical security technology and procedures for the institute; August 3, 1994



# Cooperative Monitoring Center



Arian Pregenzer, 1994





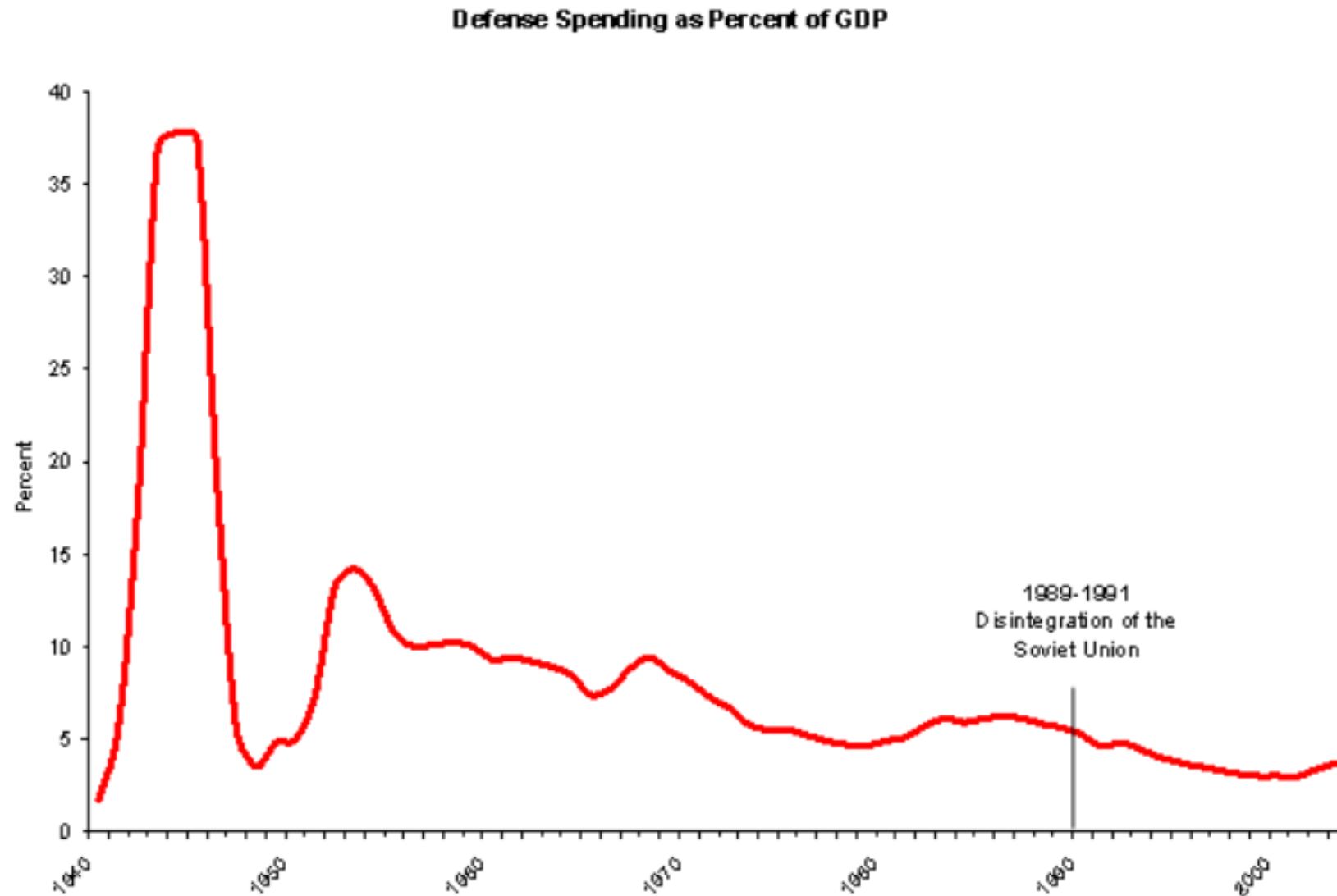
# Post-Cold War Solidification of International Expertise



Center for National Security and Arms Control (Building 810)  
Dedicated 1997



# Pursuing the Peace Dividend - Expectations



Source: Office of Management and Budget



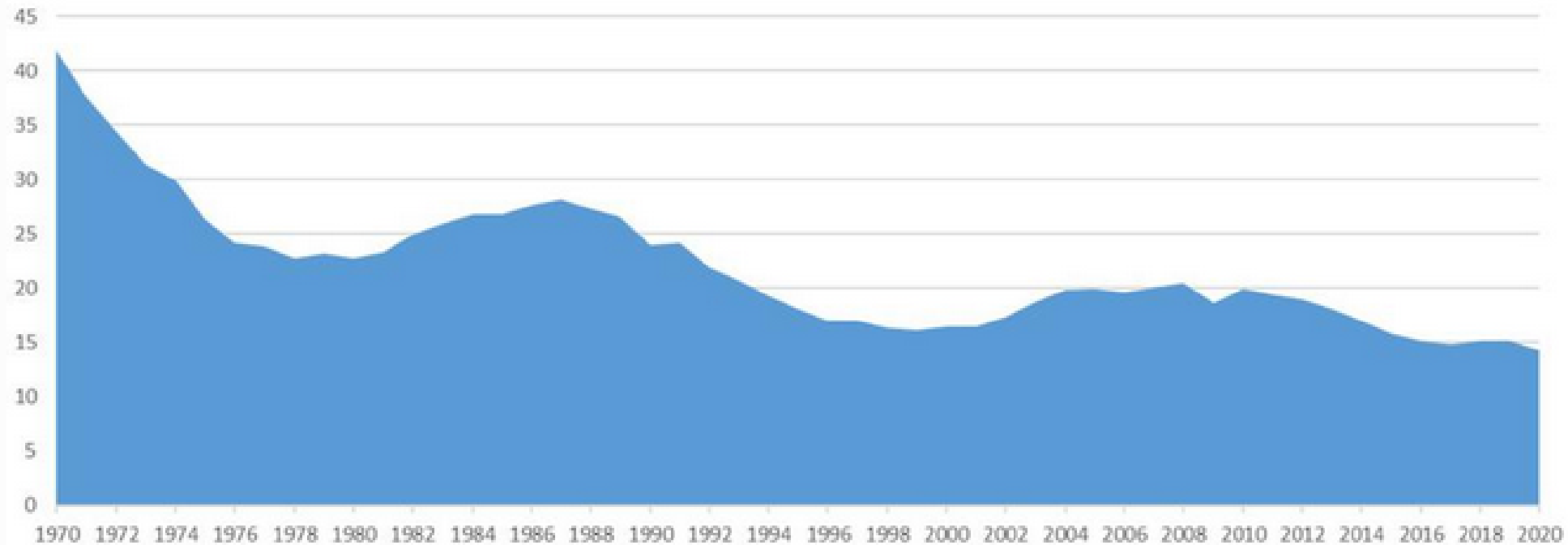


# Post-Cold War Sandia



# Pursuing the Peace Dividend - Consolidate, Assess

## US Defense Spending to Total Federal Spending (in per cent)

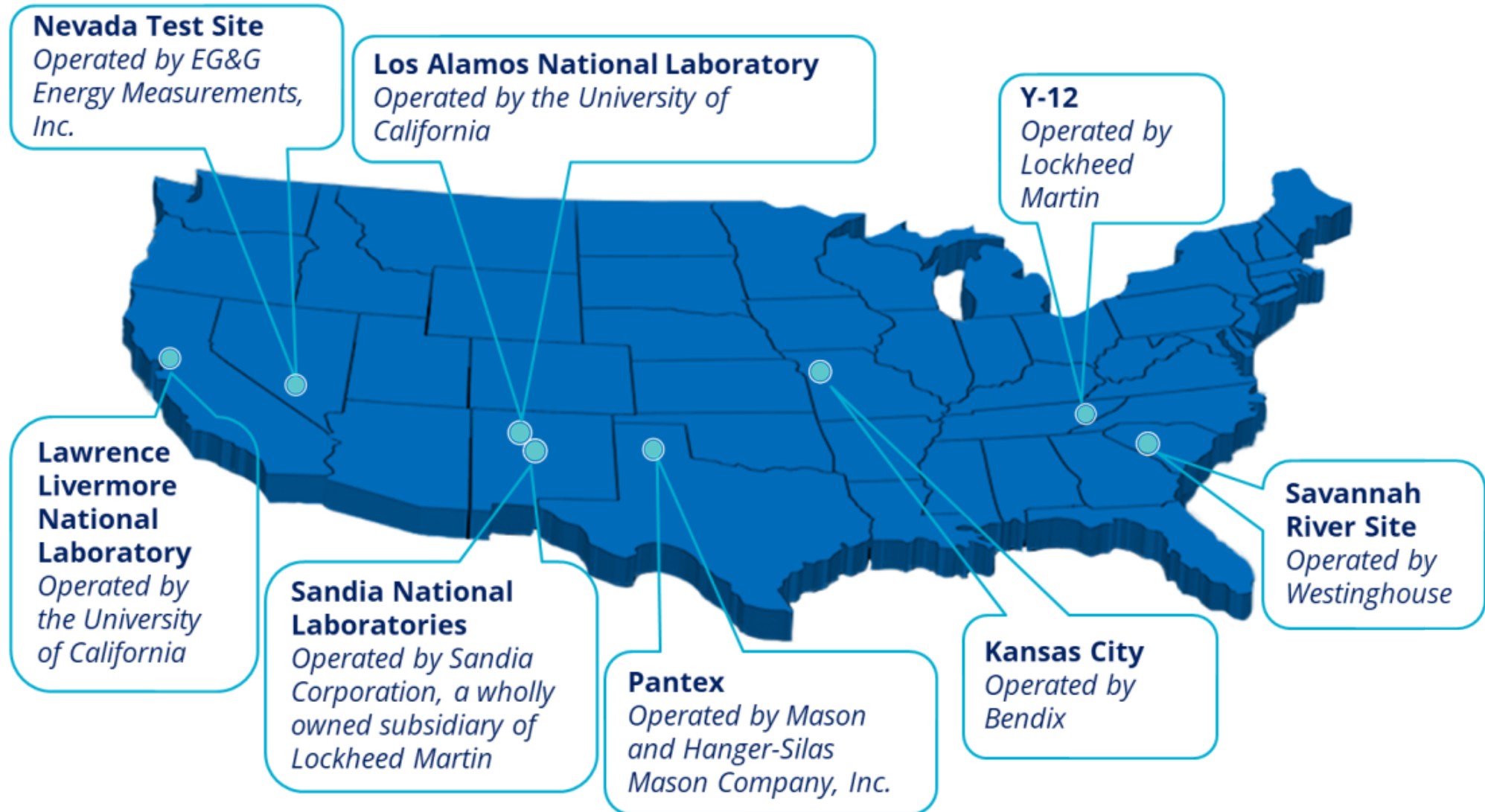


% of total spending BLOOMBERG

From Nick Sargen, "What The End Of The 'Peace Dividend' Will Mean for Americans," *Forbes* (March 3, 2022), online (<https://www.forbes.com/sites/nicksargen/2022/03/03/what-the-end-of-the-peace-dividend-will-mean-for-americans/?sh=20b967717a8f>), accessed 04/10/2022.



# Nuclear Weapons Complex - 1995

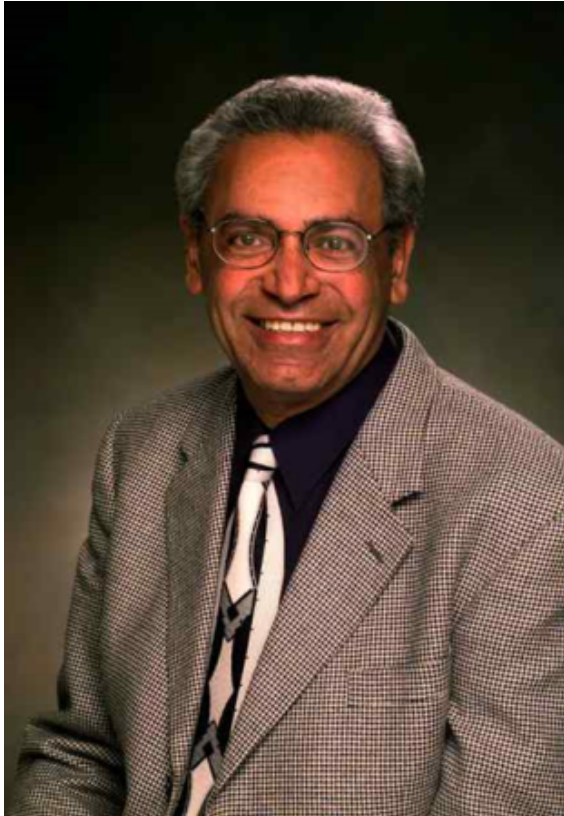




# End of Cold War – Beginning of Stockpile Stewardship



# End of Cold War – Increase in Anti-Terrorism Efforts



Mark Tucker demonstrates application of decontamination foam to Secretary of Energy Spencer Abraham and Director (later Secretary) of Homeland Security Tom Ridge November 2001

Foam co-developer Maher Tadros demonstrates application of foam with hand-held pressurized canister; one of several options for foam delivery, 1999





# To Conclude

- FY1993 SNL
  - Budget \$1.3 billion
  - Employees 8500
- FY2001 SNL
  - Budget \$1.6 billion
  - Employees 7700
- FY2021 SNL
  - Budget \$4.5 billion
  - Employees 15,000
  - Funding by Source:
    - Strategic Partnerships – 29%
    - Non-NNSA DOE – 8%
    - NNSA – 62%



Sandia President and Lab Director C. Paul Robinson and Executive Vice President Joan Woodard, State of the Labs interview, February 2001





**Thank you**

**Questions?**

