And I knew that America would never invest the necessary funds or energies in rehabilitation of its poor so long as adventures like Vietnam continued to draw men and skills and money like some demonic, destructive suction tube. So I was increasingly compelled to see the war as an enemy of the poor and to attack it as such....

A nation that continues year after year to spend more money on military defense than on programs of social uplift is approaching spiritual death.

Martin Luther King, Beyond Vietnam, April 1967
“Coming attraction?”

Greetings from PLUTONIA

Richland USA
Ozersk USSR
Nuclear Weapons (NW) Work in New Mexico

- Los Alamos National Laboratory (LANL). Best-funded NW facility in the world. Currently adding thousands of people to build, operate plutonium warhead core ("pit") factory; start-up cost ~$20 billion (biggest project in history of NM by far).
- Sandia National Laboratories (SNL). Second to LANL in funding globally.
- Kirtland Underground Munitions Maintenance and Storage Complex (KUMMSC). Most nuclear weapons at one site in the world.
- Defense Nuclear Weapons School (DTRA), KAFB
- NNSA Office of Secure Transportation (OST), national headquarters (Mesa del Sol)
- Waste Isolation Pilot Plant (WIPP), disposal of transuranic (TRU) waste from nuclear warhead work
Stockpile Stewardship: How do we sustain the nuclear deterrent?
Modern thermonuclear warheads have far larger energy yields than the primitive nuclear explosives used at Hiroshima and Nagasaki. One large nuclear explosion would utterly destroy all of Albuquerque, or Santa Fe. The purpose: terror (de-terr-ence).
**New Mexico**

**Total Awarded Amount**

$34.8 Billion

from 45,215 prime awards

View awards to this state

---

**Details**

- Population: 2,088,070 [2017 est.]
- Awarded Amount Per Capita: $16,686
- Median Household Income: $46,748 [2016 est.]

---

From USAspending.gov

Does not include military bases.

---

### Awarding Agencies

<table>
<thead>
<tr>
<th>Name</th>
<th>Awarded Amount</th>
<th>% of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Department of Energy (DOE)</td>
<td>$10.46B</td>
<td>30.03%</td>
</tr>
<tr>
<td>2. Social Security Administration (SSA)</td>
<td>$8.72B</td>
<td>25.01%</td>
</tr>
<tr>
<td>3. Department of Health and Human Services (HHS)</td>
<td>$6.95B</td>
<td>19.94%</td>
</tr>
<tr>
<td>4. Department of Agriculture (USDA)</td>
<td>$1.85B</td>
<td>5.33%</td>
</tr>
<tr>
<td>5. Department of Veterans Affairs (VA)</td>
<td>$1.30B</td>
<td>3.74%</td>
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</tbody>
</table>

### Recipients

<table>
<thead>
<tr>
<th>Name</th>
<th>Awarded Amount</th>
<th>% of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. MULTIPLE RECIPIENTS</td>
<td>$10.71B</td>
<td>30.75%</td>
</tr>
<tr>
<td>2. DEPARTMENT OF HUMAN SERVICES NEW MEXICO</td>
<td>$0.07B</td>
<td>17.41%</td>
</tr>
<tr>
<td>3. TRIAD NATIONAL SECURITY LLC</td>
<td>$5.21B</td>
<td>14.95%</td>
</tr>
<tr>
<td>4. NATIONAL TECHNOLOGY &amp; ENGINEERING SOLUTIONS OF SA...</td>
<td>$5.10B</td>
<td>14.65%</td>
</tr>
<tr>
<td>5. NEW MEXICO DEPARTMENT OF TRANSPORTATION</td>
<td>$538.86M</td>
<td>1.6%</td>
</tr>
</tbody>
</table>
So NM hosts 7,885,217 ($K) (42%) of NNSA nuclear warhead spending this year (if/when finally funded).

Total DOE spending requested in NM for FY24 is 10,043,171 ($K). Of this, at least 8,637,022 ($K), or 86%, is nuclear warheads, cleanup, and nuclear waste disposal. This is an understatement because a considerable part of DNN (Defense Nuclear Nonproliferation) deals with the disposal of surplus warhead materials and other nuclear weapons issues.
"Now I am become Death, the destroyer of worlds."

J. Robert Oppenheimer (father of the atomic bomb) upon witnessing the first tests.

“Going over to another order”
Some of the context (I)

- Multidimensional, multinational debt crisis; debt service now >$1 trillion on an annualized basis, no end of debt service growth in sight
- Multipolar breakdown in Congress
- An “aged out” president mentally incapable of fulfilling presidential duties and who ALSO is guilty of bribery, AND an incompetent VP
- Leading R candidate vehemently hated by half the country and currently subject to “lawfare” attacks in numerous venues;
- Electoral corruption on a vast scale
- WH, CIA, DoD, Treasury which sponsored destruction of major European energy source in terrorist attack
- Widespread censorship and media consolidation and control
- Academic and nonprofit cooptation and control
- Huge investments in failed Ukraine war and its neo-Nazi government
- Lock-step support for Israeli genocide, related new war on Yemen
Some of the context (II)

• Sharp rise of multipolar world, BRICS+, loss of US prestige (“the face of power”) and influence
• Loss of military dominance to both Russia and China in their spheres
• U.S. critical resource and supply chain crises
• U.S. critical de-skilling
• Past the global peak of oil production (2018), EROEI falling
• At, and soon past, the ragged US peak of oil production (2019 to now)
• Climate crisis of growing severity (so-called “drought” in NM) and potential irreversibility; severe weather events increasing
• Famine rising; migrations rising; habitat and species declining; “development” goals receding
• Collapse of arms control (nuclear, biological)
• In U.S., inequality, lack of economic security, homelessness rising
• Across the first world, prosperity is falling.
• Financial systems need “growth” to settle debts. Real growth is past.
Approaches to NM’s growing colonial status

First, everybody must stabilize their lives to some degree. This can be a big job and it will be harder and harder to do. This challenge conditions what follows here.

1. Trying to understand it. This is not so easy. Our minds are the primary locus of colonization. We have to work there. We are not free. We think thoughts invented by others to stick to the primitive parts of our brains, i.e. our emotions, fears, and need for belonging. We are brainwashed into believing things which aren’t true and fighting against each other and our natural allies, with results that include paralysis, despair, impoverishment.

2. Leaving NM, mental distancing, denial, distraction, escapisms and addictions

3. Whining and careerism; cashing in on colonialism; playing on liberal guilt for personal advancement

4. Joining the colonizers; becoming a comprador, direct employee, or servant

5. Resisting; helping construct and preserve a just, sustainable society at some appropriate scale; embracing others
   • Holding to nonviolence and respect is the definition and basis of success.
   • The “constructive program” is the centerpiece; resistance one of its activities
   • Service is essential for maturity and the acquisition of moral standing and is part of the road and the destination.
   • We should do things which win in the doing as well as the result, and leave everything else aside.
   • We don’t have time for fake resistance, which abounds. We need to really stop this process.
   • We need to acquire skills and live by doing useful work in our communities. Get your living by loving, said Thoreau.
   • Be aware of efforts to distract, delay, divide, dissipate, and destroy resistance.
   • We need to organize ourselves to face dramatically falling economic prospects nationwide.
   • We need to lead, including by getting elected to offices.
Supply Chain includes the procurement of raw materials, special design and commercial off-the-shelf components, and specialized equipment; includes the acquisition process.

Operations includes the infrastructure required to process materials, manufacture and test sub-components and components then assemble those components into a final weapon, and the ability to disassemble and reuse weapon components upon retirement.

Logistics includes the ability to handle and transport a range of materials, the delivery of warheads to/from customers and the storage of strategic materials.

Workforce includes the specialized education, skills, training and experience required within the nuclear security enterprise; recruitment and retention of cleared personnel; and processes to ensure critical knowledge is maintained and transferred across the enterprise.

Figure E–1. The nuclear security enterprise industrial base framework
<table>
<thead>
<tr>
<th><strong>Table E-1. The nuclear security industrial base risk factors</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Human Capital Gaps</strong></td>
</tr>
<tr>
<td><strong>Sole Source Vendors</strong></td>
</tr>
<tr>
<td><strong>Constrained Market</strong></td>
</tr>
<tr>
<td><strong>Product Security</strong></td>
</tr>
<tr>
<td><strong>Sunset Technologies</strong></td>
</tr>
<tr>
<td><strong>Foreign Dependency</strong></td>
</tr>
<tr>
<td><strong>Eroding Infrastructure</strong></td>
</tr>
<tr>
<td><strong>Regulatory Changes</strong></td>
</tr>
<tr>
<td><strong>Inflation</strong></td>
</tr>
<tr>
<td><strong>Global Events</strong></td>
</tr>
</tbody>
</table>

COVID-19 = Coronavirus Disease 2019
Los Alamos
National Laboratory

Multi-program national security laboratory

www.lanl.gov

Operated By: Triad National Security, LLC, (Triad) is made up of three members: Battelle Memorial Institute, Texas A&M University, and the University of California

Los Alamos Field Office

- Federally Funded Research and Development Center
- Lead design agency for the B61, W76, W78, and W88 systems
- Leads the B61-12 LEP and the W88 Alt 370 Program
- Nation’s Plutonium Center of Excellence for Research and Development
- Manufacture pits, detonators, detonator cables, and radioisotope thermoelectric generators
- Weapons physics (design and analysis), weapons (engineering, energetics, design, analysis, testing, and integration), high energy density physics, materials science and engineering, and high-performance computing
FY 2024 DOE request – site funding by source
(total LANL FY 2024 request = $4,922 million)

- Less than or equal to 1% (each)
  - Defense Environmental Cleanup
  - Other Defense Activities
  - Energy Efficiency and Renewable Energy
  - Nuclear Energy
  - Electricity
  - Cybersecurity, Energy Security and Emergency Response
  - Fossil Energy and Carbon Management
- Science 2%
- Environmental Management 6%
- Defense Nuclear Nonproliferation 9%

LANL split for the FY 2024 Weapons Activities
President’s Budget Request ($4,053 million)

- Information Technology and Cyber Security 1%
- Defense Nuclear Security 4%
- Stockpile Research, Technology, and Engineering 18%
- Infrastructure and Operations 18%
- Stockpile Management 16%
- Production Modernization 44%
- Weapons Activities 82%
A rapidly growing workforce and LANL mission help drive the region’s economy

17,244 total employees

61.2% of FY22 new hires are from New Mexico

$4.4 billion total Laboratory budget for fiscal year 2023

$1.76 billion Annual salary total YTD for fiscal year 2023

Salary distribution by main counties:

- Los Alamos: $751,243,751
- Santa Fe: $446,376,954
- Rio Arriba: $195,454,037
- Bernalillo: $97,487,279
- Sandoval: $72,918,192
- Taos: $23,019,491
- Other NM*: $30,779,651

Attachment A
Exploring federal off-site campus options

Move work closer to housing

- Robust main campus in Los Alamos will remain
- Possible capabilities for off-site campus
  - Low hazard, light laboratory space
  - R&D offices
  - Business and support services offices
  - Classified office activities
  - Warehousing
- Keep hazardous and specialized operations in Los Alamos
- Reduces traffic congestion and housing demand in Los Alamos County, more accessible to larger population base

Acquiring permanent off-site locations focuses on-site investments on specialized operations (nuclear mission, stockpile security, high explosive, LANSCE, magnet lab, etc.)
© Los Alamos Study Group, White Rock housing development in foreground near LANL's Area G waste storage in background, Apr 2021.
Sandia National Laboratories

Multi-mission national security laboratory

www.sandia.gov

Operated By: National Technology and Engineering Solutions of Sandia, LLC, a wholly owned subsidiary of Honeywell International, Inc.

Sandia Field Office

- Warhead system engineering and integration
- Design, development, and qualification of non-nuclear components
- Production of non-nuclear components (power sources, neutron generators, and trusted, strategic radiation hardened microelectronics)
- Development and application of science and technology to solve other national security challenges
FY 2024 DOE request – site funding by source (total SNL FY 2024 request = $3,188 million)

FY 2024 Site Funding by Source

- Less than or equal to 1% (each)
  - Environmental Management
  - Other Defense Activities
  - Nuclear Energy
  - Fossil Energy and Carbon Management
  - Cybersecurity, Energy Security and Emergency Response
  - Nuclear Waste Fund Oversight
- Electricity 1%
- Science 2%
- Energy Efficiency and Renewable Energy 3%
- Defense Nuclear Nonproliferation 8%
- Weapons Activities 84%

SNL split for the FY 2024 Weapons Activities

President’s Budget Request ($2,681 million)

FY 2024 Site Funding for Weapons Activities

- Production Modernization 5%
- Secure Transportation Asset 3%
- Information Technology and Cyber Security 2%
- Defense Nuclear Security 3%
- Stockpile Research, Technology, and Engineering 22%
- Stockpile Management 58%
- Infrastructure and Operations 8%
Figure F-13. SNL separations by years of service

Figure F-15. SNL employee separation trends
<table>
<thead>
<tr>
<th>Strategic Partnership Projects (work for others)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DoD</td>
<td>$1,102.1 million</td>
</tr>
<tr>
<td>DHS</td>
<td>$86.5 million</td>
</tr>
<tr>
<td>Other federal agencies</td>
<td>$124.7 million</td>
</tr>
<tr>
<td>Non-federal entities</td>
<td>$27.4 million</td>
</tr>
<tr>
<td>CRADAs &amp; licences/royalties</td>
<td>$9.8 million</td>
</tr>
<tr>
<td>Inter-Entity Work</td>
<td>$46.4 million</td>
</tr>
<tr>
<td><strong>Total SPP</strong></td>
<td><strong>$1,396.9 million</strong></td>
</tr>
<tr>
<td><strong>Total Sandia revenue</strong></td>
<td><strong>$4,784 million</strong></td>
</tr>
</tbody>
</table>
Modern U.S. ballistic missile warhead, late 1980s

**W88 Warhead for Trident D-5 Ballistic Missile**

1. **The "Primary"**
   - Two-point, hollow-pit, fusion-boosted high explosive implosion

2. **The "Secondary"**
   - Spherical, all-fissile, fusion-boosted radiation implosion

3. **Radiation Case**
   - Peanut-shaped, channels x-rays from primary to secondary

4. **Channel Filler**
   - Plastic foam plasma generator

5. **Booster Gas Cannister**
   - Periodic replacement as tritium gas decays

- **High Explosive Lens**
  - Two lenses drive primary implosion

- **Plutonium-239 Pit**
  - Beryllium-reflected hollow pit

- **Tritium & Deuterium**
  - Booster gas, fusion makes neutrons

- **Lithium-6 Deuteride**
  - Lithium becomes tritium, fusion makes neutrons

- **Uranium-235 "Sparkplug"**
  - Starts tritium generation and fusion in the secondary

- **Uranium-235 "Pusher"**
  - Heat shield, tamper, and fission fuel (fission by all neutrons)

- **Uranium-238 Case**
  - Fission by fusion neutrons only

Sources for illustrations: Wikipedia
Mark 21/W87 on single RV MM III bus, the present deployment configuration.

This RV is too wide and heavy for MIRVing MM III.

MM III in operation.

Result.
Ground Based Strategic Deterrent (GBSD) “Sentinel” system. Deployment 2030-2037. A $85-140+ billion program plus warheads, according to DoD’s Cost Analysis and Program Evaluation (CAPE). 400 deployed, MIRV-capable (3 per missile for some fraction of 400, perhaps 200 as at present). To be armed with new W87-1 warheads (W87-0s initially). Some 250-1,500 new-pit W87-1s are desired, starting in 2030.

This is the origin of the 80+ pit per year by 2030 requirement.
Minuteman III Mk-12 MIRV Warheads (W78s), tested in this configuration in the last administration.
Some Key Takeaways

- LANL’s new production mission is a key enabling program for a hybrid war against now-combined Russia and China. The U.S. has already lost.

- LANL’s new mission is absurd, based on poor engineering and management, and is vulnerable to “off-ramps.” With help, LANL has failed at this mission four times before and is in the process of failing again, with increasing visibility.

- It will be impossible to meet climate, environmental, or social goals under conditions of empire and a nuclear arms race, for political, fiscal, and social reasons.

- Santa Fe and Northern New Mexico, and NM as a whole, are uniquely placed to make an enormous, material contribution to peace and social development.
<table>
<thead>
<tr>
<th>Year</th>
<th>US</th>
<th>New Mexico</th>
<th>Rio Arriba</th>
<th>Santa Fe</th>
<th>Los Alamos</th>
<th>LA/RA</th>
<th>LA/SF</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>$73,030</td>
<td>$48,280</td>
<td>$41,511</td>
<td>$60,187</td>
<td>$124,947</td>
<td>3.01</td>
<td>2.08</td>
</tr>
<tr>
<td>2019</td>
<td>$78,250</td>
<td>$53,110</td>
<td>$44,579</td>
<td>$61,791</td>
<td>$122,001</td>
<td>2.74</td>
<td>1.97</td>
</tr>
<tr>
<td>2020</td>
<td>$76,660</td>
<td>$50,910</td>
<td>$47,400</td>
<td>$58,898</td>
<td>$111,724</td>
<td>2.36</td>
<td>1.90</td>
</tr>
<tr>
<td>2021</td>
<td>$76,330</td>
<td>$53,460</td>
<td>$47,042</td>
<td>$67,311</td>
<td>$134,050</td>
<td>2.85</td>
<td>1.99</td>
</tr>
</tbody>
</table>

From 2020 to 2021, MHI in Los Alamos and Santa Fe counties jumped by 20% and 14%, respectively; MHI in Rio Arriba declined by 1%. Data from 2022 is not yet available.
### Median Home Prices, Santa Fe County and City

<table>
<thead>
<tr>
<th>Year</th>
<th>Santa Fe County</th>
<th>Santa Fe City</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>$203,000.00</td>
<td></td>
</tr>
<tr>
<td>2001</td>
<td>$221,000.00</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>$249,450.00</td>
<td></td>
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<tr>
<td>2003</td>
<td>$284,313.00</td>
<td>$270,475.00</td>
</tr>
<tr>
<td>2004</td>
<td>$316,661.00</td>
<td>$340,000.00</td>
</tr>
<tr>
<td>2005</td>
<td>$360,000.00</td>
<td>$398,000.00</td>
</tr>
<tr>
<td>2006</td>
<td>$461,313.00</td>
<td>$346,125.00</td>
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<td>2007</td>
<td>$508,900.00</td>
<td>$371,000.00</td>
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<td>2008</td>
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<td>2009</td>
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<td>2010</td>
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<td>2011</td>
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<td>$410,000.00</td>
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<td>2013</td>
<td>$393,500.00</td>
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<td>$765,950.00</td>
<td>$595,000.00</td>
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<tr>
<td>2023</td>
<td>$808,050.00</td>
<td>$604,500.00</td>
</tr>
</tbody>
</table>
One way NNSA’s nuclear weapons “program of record” has evolved is in its cost, which has risen relentlessly in constant dollars since its inception.

Spending to the right of the 2023 line is that requested. No inflation estimates have been applied to these requests.
Plutonium bomb factory for New Mexico
It is for him that is lonely or in prison to dream of fellowship, but for him that is of a fellowship to do and not to dream.

Forsooth, brethren, fellowship is heaven and lack of fellowship is hell; fellowship is life and lack of fellowship is death; and the deeds that ye do upon the earth, it is for fellowship’s sake that ye do them.

William Morris, A Dream of John Ball, (concerning the Peasants Revolt of 1381)