1943 - 2003
Los Alamos
NATIONAL LABORATORY
Ideas That Change the World

Ten-Year Comprehensive Site Plan FY 2004 to FY 2013

LA-UR-04-7750
September 1, 2003

NNSA
National Nuclear Security Administration

Mission Essential Facilities

LEGEND

- Waste Facilities
- TA-18 Facilities
- NMT Facilities
- LANSCE Facilities
- Tritium Facilities
- Dynamic Experimentation Facilities
- Beryllium Technology Facility
- Engineering Facilities
- ASCI Facilities
- ICF Facilities

(Facility footprints are buffered for visibility)

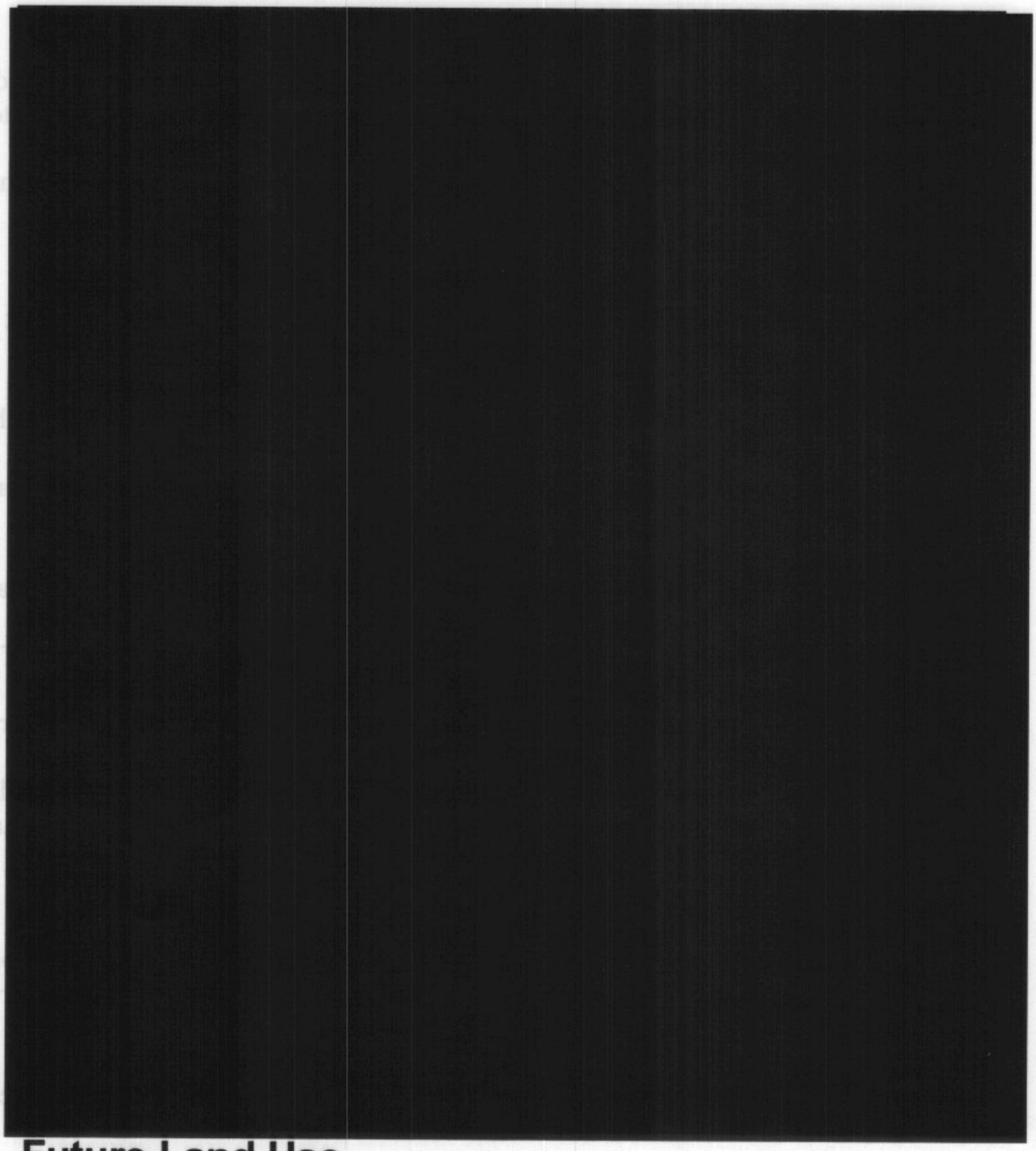
8000 0 8000 Feet

Table 3-2: Weapons Physics mission goals and strategies.

Weapons Physics Directorate		
Goals	**Strategies**	**SMART Linkage**
[redacted]	[redacted]	

Table 3-1: Weapons Engineering and Manufacturing mission goals and strategies.

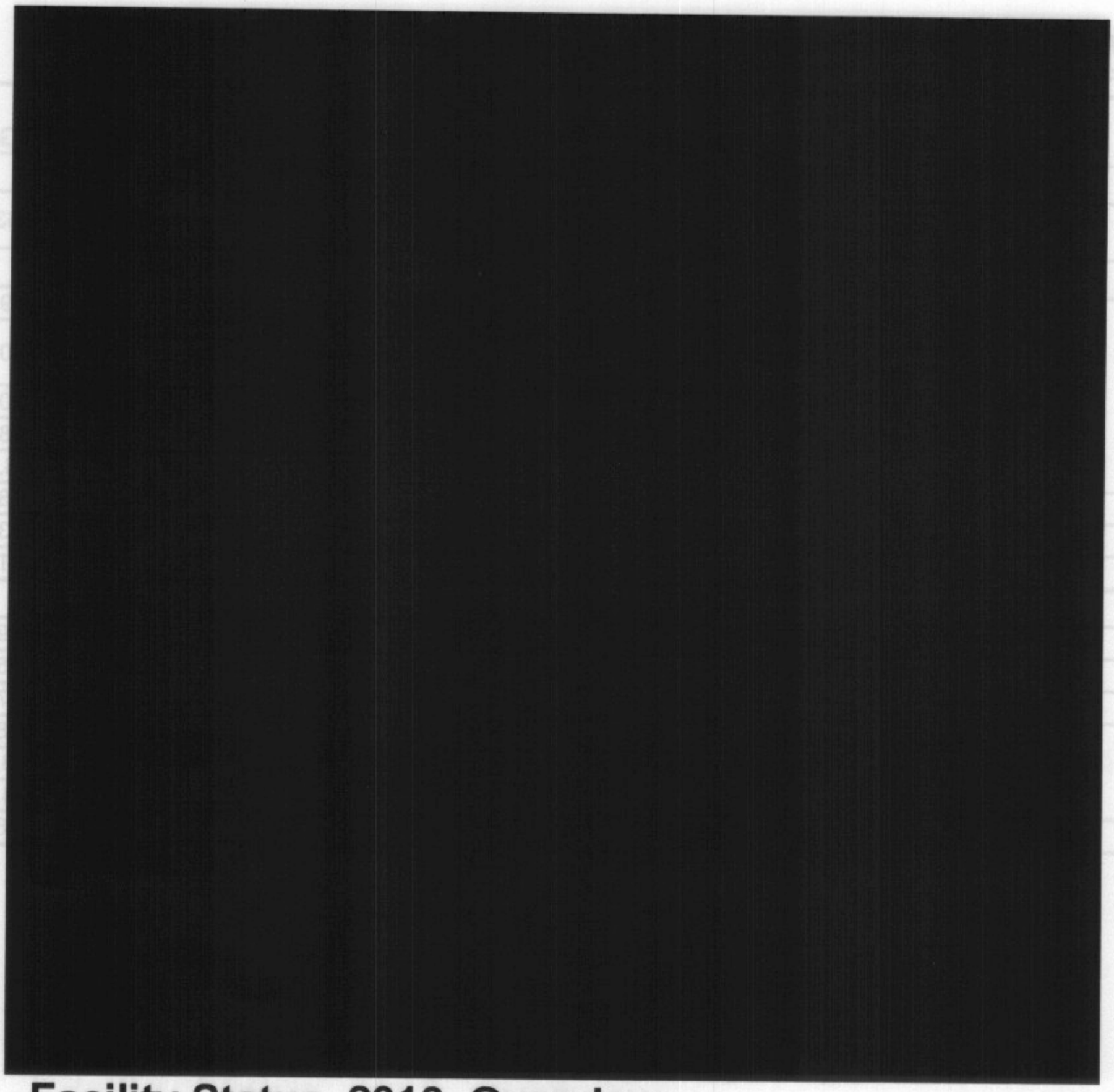
Weapons Engineering and Manufacturing Directorate		
Goals	**Strategies**	**SMART Linkage**
[redacted]	[redacted]	[redacted]



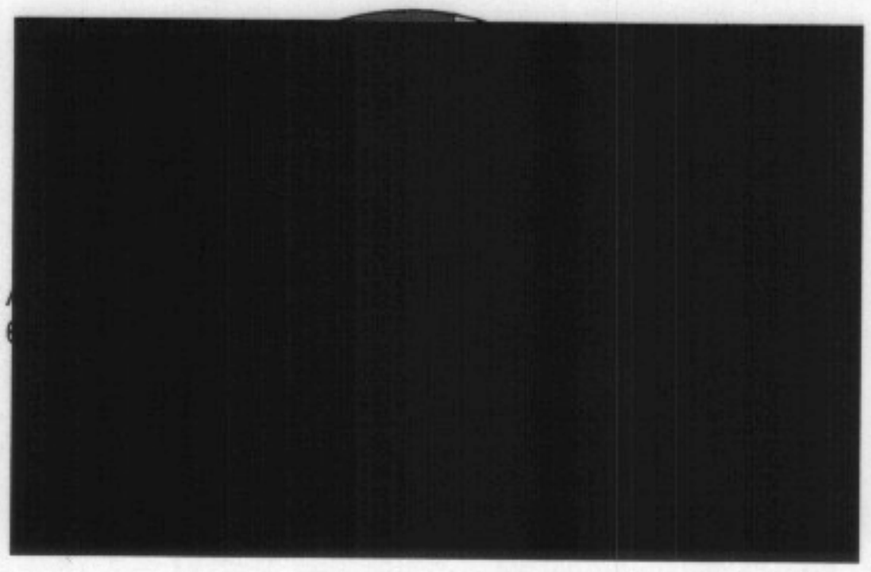
Future Land Use

- Experimental Science
- High Explosive R&D
- High Explosive Testing
- Nuclear Materials R&D
- Physical/Technical Support
- Public/Corporate Interface
- Reserve
- Service / Support
- Theoretical/ Computational Science
- Waste Management
- Future DOE Boundary

7000 0 7000 Feet



Facility Status, 2013, Overview with Proposed Future Construction



LEGEND

- Active Facility
- Excess Facility
- Spare Facility
- Technical Areas with Future Facility Construction Projects

(Facility footprints are buffered for visibility)

Weapons Engineering & Manufacturing

Current Requirements	Current Functions/Capabilities	Current Facilities	Current Issues/Concerns	Forecasted Requirements	Forecasted Functions/Capabilities	Alternatives/Options	Facility Strategies	Related Projects	Technological Linkages
Manufacturing									
<10 pits/year	Fabrication and assembly of plutonium components	Plutonium facility (TA-55)	Glovebox atmosphere, transportation over roads open to the public, and SNM storage						
	Analytical and actinide chemistry and materials characterization	CMR (TA-03-29), TA-55, TA-48-01	Nuclear material operations in CMR will continue through 2010. Replacement facilities will then be required.						
	Limited highly enriched uranium (HEU) and beryllium processing and manufacturing	CMR, Sigma Complex, TA-03-39, -03-141	None						
	Nonnuclear pit component fabrication and joint test assembly (JTA) support. Materials characterization and process development. Material could include depleted uranium.	Sigma Complex, TA 03-39, Beryllium Technology Facility (BTF) (TA-03-141)	Fully qualified cability to perform WR machining exists. BTF requires special handling capabilities.						
1 neutron tube target loader (NTTL), <1000 targets/yr		Weapons Engineering Tritium Facility (WETF) at TA-16 & TA-21 support	TA-21 is being closed and land transferred.						
Detonator production capable of <3000/yr	Manufacture of detonators	High explosive facilities							

D Directed Stockpile Work
R RTBF
Campaigns
1. Primary Certification
2. Dynamic Materials Properties
3. Advanced Radiography O&M
4. Secondary Certification & Nuclear Systems Margins
5. Enhanced Surety
6. Weapons Systems Engineering Certification
7. Nuclear Survivability (Certification in Hostile Environments)
8. Enhanced Surveillance
9. Advanced Design and Production Technologies (ADPT)
10. High Energy Density Physics
11. Advanced Simulation and Computing O&M
12. Pit Manufacturing and Certification (Readiness)
13. Secondary Readiness
14. HE / Manufacturing & Weapon Assembly / Disassembly Readiness
15. Nonnuclear Readiness
16. Materials Readiness
17. Tritium Readiness