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**Fiscal Year 2010
Performance Evaluation Report**

Lawrence Livermore National Laboratory

Prepared by:

**Livermore Site Office
National Nuclear Security Administration
December 6, 2010**

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**FY 2010 Performance Evaluation Report
for
Lawrence Livermore National Laboratory**

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1.0 Introduction

This report was produced by the Department of Energy/National Nuclear Security Administration (DOE/NNSA), Livermore Site Office (LSO) to provide the NNSA Fee Determining Official (FDO) with an evaluation of the Contractor's performance for all Performance Incentive requirements under contract DE-AC52-07NA27344. In accordance with the Section H Clause entitled, *Performance-Based Management*, the Contractor's performance is evaluated and rated by NNSA based on clearly defined standards of performance consisting of performance objectives and performance incentives including multi-site performance incentives and award term incentives as set forth in the Performance Evaluation Plan (PEP) on a Fiscal Year (FY) basis.

1.1 Evaluation Process

The Contractor's performance evaluation consists of both subjective (adjectival) and objective (pass/fail) ratings. The Contractor receives an overall adjectival rating to determine its eligibility to earn the Award Term Incentive (ATI) as well as summary level adjectival ratings in Mission, Operations, and Institutional Management (IM) based on the definitions set forth in the PEP. While the adjectival ratings are considered subjective in order to preserve the discretion of the Site Office Manager and FDO, the ratings are based on numerous performance measures and targets that include objective criteria.

The Contractor's performance is also evaluated on an objective basis (pass/fail) against individual stretch targets, multi-site targets, and ATI targets.

1.2 Performance Period

The performance period is October 1, 2009 through September 30, 2010, which is the third year for the management and operation of the Lawrence Livermore National Laboratory (LLNL) by Lawrence Livermore National Security, LLC (LLNS).

2.0 Executive Summary

The Contractor achieved the following summary level ratings for the performance period:

Summary Ratings			
Type	Mission	Operations	IM
Subjective (Essential)	Excellent	Very Good	Very Good
Subjective Fee % Range	91% - 100%	76% - 90%	76% - 90%
Subjective Fee % Earned	91%	82%	88%
Gateway to Stretch	Pass	Pass	Pass
Objective Fee % (Stretch)	90%	100%	80%
Gateway to Award Term	Pass		
Award Term Incentives	4 Pass, 1 Fail		
Eligible for Award Term	Yes		
Multi-Site Targets	11 Pass, 1 Fail, 1 Canceled		

The Contractor earned an overall adjectival rating of very good or better, achieving the minimum subjective rating to be eligible for award term. In addition to achieving the minimum subjective rating, the Contractor successfully completed four out of the five ATI targets, satisfying the eligibility requirements for award term under the PEP and the contract.

Based on the above ratings, the Contractor is eligible to earn incentive fees as follows:

Type	Mission	Operations	IM	Multi-Site	Total	% Earned
Essential	\$6,498,321	\$5,855,630	\$3,142,045		\$8,997,675	87%
Stretch	\$4,299,964	\$1,785,253	\$1,904,270		\$7,989,487	90%
Multi-Site				\$2,231,567		75%
Earned Incentive Fee	\$10,798,285	\$7,640,883	\$5,046,315	\$2,231,567	\$25,717,050	86%
Total Available	\$11,901,687	\$8,926,265	\$5,950,843	\$2,975,422	\$29,754,217	

2.1 Mission

The Contractor earned an overall adjectival rating of excellent, along with 91% of the fee for Mission, based on its performance against Objectives 1 – 7 in the PEP. Mission objectives include weapons certification strategy, long-term integrated stewardship, near-term weapons program, Inertial Confinement Fusion (ICF) ignition and high yield campaign, nonproliferation and threat reduction, Science, Technology, and Engineering (ST&E) excellence, and facilities and infrastructure support. The NNSA rating is consistent with the Contractor’s self-assessment. With the exception of long-term integrated stewardship and ICF ignition, which received a very good rating, all Mission objectives were performed at the excellent level. Although the Contractor met or exceeded nearly all of the performance targets, as well as the government’s evaluation criteria in Mission, there were a few performance issues of significance involving the resumption of Plutonium (Pu) shots at the Joint Actinide Shock Physics Experimental Research (JASPER) facility, re-baselining of a critical Level 1 National Ignition Campaign (NIC) milestone, and execution of physics experiments in support of the weapons program. Based on these performance issues, an award fee of 91%, which is at the low end of the range for excellent (91% - 100%), is justified.

Notable accomplishments in Mission include:

- Issued Directors Letter on Annual Assessment on schedule;
- Provided critical technical support to the Nuclear Posture Review (NPR) and new Strategic Arms Reduction Treaty (START) discussions;
- Began operation of Dawn and met important Sequoia milestone;
- Accomplished 95% of Direct Stockpile Work (DSW) Level-2 Milestones in the Defense Programs Milestone Reporting Tool;
- Completed NIC Level-1 Milestone, “Complete the first cryo-layered capsule experiment for ignition on NIF”;
- LLNL employees received prestigious awards and honors including R&D 100 (6), E.O. Lawrence, National Medal of Science, Special Award from the American Meteorological Society, and elected society fellows (8); and
- Packaged approximately 80% of Superblock’s nuclear materials, 5% ahead of schedule.

2.2 Operations

The Contractor earned an overall adjectival rating of very good for Operations based on its performance against Objectives 8 and 9 in the PEP. Operations objectives include Environmental, Safety, and Health (ES&H) and Security, which were both performed at the very good level. The NNSA rating is consistent with the Contractor’s self-assessment. The Contractor maintained safe, environmentally sound, and secure operations in an efficient and effective manner in support of mission objectives. Performance measures in support of ES&H and Security were consistently rated at the very good level as the Contractor met or exceeded many of the performance targets and continued to demonstrate performance improvement. Although there were no significant performance issues in Operations, it is noted that there are opportunities for improvement in the Contractor’s explosives safety, fire protection, industrial

hygiene, and occupational medicine programs. Based on the consistent very good ratings as well as opportunities for improvement an award fee award of 82%, which is in the mid-range of very good (76% - 90%), is justified.

Notable accomplishments in Operations include:

- Implemented industrial hygiene database to improve hazard assessments;
- Improved radiological safety program;
- Executed the FY 2010 environmental cleanup program in accordance with regulatory requirements and LSO direction;
- Made significant improvements to security Performance Assurance Program (PAP) and security budgeting; and
- Destroyed over 20% of Accountable Classified Removable Electronic Media (ACREM) and 6,000 classified parts.

2.3 Institutional Management

The Contractor earned an overall adjectival rating of very good for IM based on its performance against Objectives 10 and 11. IM objectives include Business Operations and Performance Improvement. The Contractor rated its overall IM performance at the excellent level. Although the NNSA and Contractor overall IM ratings do not agree, both parties rated Business Operations performance at the excellent level. However, NNSA rated Performance Improvement at the very good level while the Contractor rated it at the excellent level. The Contractor managed business operations in an effective and efficient manner while safeguarding public assets and supporting Mission objectives. Significant improvements were made to financial management while the Contractor's property management, procurement, and human capital management systems consistently met or exceeded nearly all of the performance targets. Under IM, the Contractor improved the performance of the Laboratory, provided transparency to the customer, and supported the Nuclear Security Enterprise. Although many of the performance targets were met or exceeded, improvement opportunities remain in the implementation of the Contractor Assurance System (CAS) as it continues to mature, strategic initiatives, and institutional Environmental, Safety, Health, and Quality (ESH&Q) programs. Based on the combination of very good and excellent ratings, and the absence of significant performance issues, an award fee award of 88%, which is in the high range of very good (76% - 90%), is justified.

Notable accomplishments in IM include:

- Implemented performance measurement baseline process in Business and Operations covering approximately \$450 million in indirect costs;
- Submitted a new rate structure in response to Office of Field Financial Management (OFFM) recommendations in order to become compliant with Cost Accounting Standards;
- Completed attractive property wall-to-wall physical inventory with an accountability rate of 99.95%;
- Met or exceeded its goals in support of the NNSA Supply Chain Management Center;
- Executed a CAS that continues to mature and become fully functional;

- Made significant progress in management of key personnel and succession planning; and
- Implemented a leadership development program in coordination with the University of California (UC) Berkeley Haas School of Business.

3.0 Subjective (Adjectival) Ratings

3.1 Mission

		NNSA	LLNS
Overall Mission Rating		Excellent	Excellent
1.	Enhance Assessment of United States (US) Nuclear Weapons and Future Stockpile Options.	Excellent	Excellent
2.	Develop and Implement Long-Term Integrated Stewardship Program.	Very Good	Very Good
3.	Execute Near-term Weapons Program.	Excellent	Excellent
4.	Execute ICF Ignition and High Yield Campaign in support of stockpile stewardship.	Very Good	Excellent
5.	Support Nonproliferation and Threat Reduction.	Excellent	Excellent
6.	Provide Science, Technology, and Engineering Excellence.	Excellent	Excellent
7.	Optimize current and evolving mission performance by providing effective and efficient facilities and infrastructure.	Excellent	Excellent

Performance Objective 1: Weapon Certification Strategy

The Contractor did an excellent job performing the work under Objective 1, earning an excellent rating on both of the performance measures. The Contractor met or exceeded all of the performance targets, evaluation criteria, and milestones associated with this objective. The LLNL Director’s Letter on Annual Assessment was issued on schedule and all essential work and associated Level-2 milestones were completed. The Contractor did an excellent job supporting NPR and START Treaty discussions with both the NNSA and Department of Defense (DoD) customers. Other accomplishments include collaborative efforts on the Independent Nuclear Weapon Assessment Process with Los Alamos National Laboratory (LANL) and Sandia National Laboratory (SNL), B83 System Performance Database progress, and the execution of a surety related hydro experiment at Dual-Axis Radiographic Hydrodynamics Test (DARHT).

Performance Objective 2: Long-Term Integrated Stewardship

The Contractor did a very good job performing the work under Objective 2, earning an excellent rating on two of the performance measures and very good on the other two. The Contractor met or exceeded many of the performance targets, evaluation criteria, and milestones associated with this objective.

Although the Contractor did not fully complete Target 2.1.3, “deliver physics-based capability to enable quantitative assessment of stockpile system performance on energy balance related

issues,” it has delivered a valuable analysis of the phenomenon being investigated. Only validation experiments remain before this target is considered fully completed. Additionally, Target 2.1.2, “execute planned scope in National Boost Initiative,” continues to be hampered by the difficulties in bringing the JASPER facility back on line.

Performance Objective 3: Near-Term Weapons Program

The Contractor did an excellent job performing work under Objective 3, earning an excellent rating on all three of the performance measures. The Contractor met or exceeded nearly all of the performance targets, evaluation criteria, and milestones associated with this objective. The accomplishment of 95% of the Level-2 Milestones in the Defense Programs Milestone Reporting Tool is considered exemplary. The Contractor effectively monitored all DSW programmatic activities with a focus on all key deliverables, provided outstanding support to Pantex, and demonstrated effective collaborative exchange with LANL.

Performance Objective 4: ICF Ignition and High Yield Campaign

The Contractor did a very good job performing work under Objective 4, earning an excellent rating on one performance measure and good on the other. The Contractor met or exceeded many of the performance targets, evaluation criteria, and milestones associated with this objective. The Contractor successfully completed the Level-1 Milestone, “Complete the first cryo-layered capsule experiment for ignition on NIF.” In addition, a total of eight performance targets and one Level-2 Milestone (3495) were successfully completed. Despite several major challenges, the NIC made great strides in preparing for future integrated ignition experiments. The Contractor successfully executed several hundred shots required to tune the lasers for increased precision, reliability, and overall performance at high energies. These shots were also helpful in recalibrating beam diagnostics and refining modeling parameters. Additional shots were required to improve pointing accuracy and validate focus at target chamber center.

Despite these significant accomplishments, several issues were identified. Modest changes in program funding from year to year are a very common occurrence. It is the expectation of NNSA that its contractors will plan for and manage these changes in such a way as to minimize the level of internal program risk. The contractor did not do this well in FY10, creating distraction for both the Contractor and NNSA and inhibiting our ability to understand the technical and program work needed to execute the ICF mission. These challenges were compounded by poor communications by the contractor to the NNSA Program Managers, making the problems more difficult to resolve. By the end of the year, it was necessary to re-baseline a significant Level 1 program milestone into the next fiscal year and the Contractor was unable to fully support the work associated with demonstrating progress in replacing key empirical parameters with improved physical data and physics-based models.

Performance Objective 5: Nonproliferation and Threat Reduction

The Contractor did an excellent job performing work under Objective 5, earning an excellent rating on both performance measures. The Contractor met or exceeded all of the performance targets and evaluation criteria associated with this objective by providing excellent support to the US government in the area of nonproliferation and threat reduction. The Contractor has fully supported nonproliferation and threat reduction by securing Radioisotope Thermoelectric Generators overseas, deploying detection and monitoring systems domestically and abroad,

assisting the US government in treaty negotiations, export control reviews, nuclear detonation detection, and emergency planning and response, etc.

Performance Objective 6: ST&E Excellence

The Contractor did an excellent job performing work under Objective 6, earning an excellent rating on four performance measures and very good on one. The Contractor met or exceeded nearly all of the performance targets and evaluation criteria associated with this objective. This was demonstrated by the large number of prestigious awards received by LLNL's researchers and publications in peer-reviewed journals. External peer review committees supported and validated the Contractor's outstanding quality of ST&E contributions needed to execute DOE's mission and in meeting national needs. The Contractor leveraged its capabilities in support of the other federal sponsors such as Department of Homeland Security, DoD, National Optical Astronomy Observatory, and the Environmental Protection Agency and continues to develop strategic partnerships in energy and environmental security.

While the quality of research is generally outstanding, there are opportunities for a more balanced investment strategy, and process improvements in order to better support the national security mission and enhance core competencies for the future. Additionally, continued efforts are needed to reach excellence in the marketing, development, tracking, and customer satisfaction of these research efforts.

Performance Objective 7: Facilities and Infrastructure

The Contractor did an excellent job performing work under Objective 7, earning an excellent rating on five performance measures, very good on one, and good on one. The Contractor met or exceeded nearly all of the performance targets and evaluation criteria associated with this objective. The Contractor's performance in maintenance is considered excellent as it successfully completed all of the associated performance targets. The FY 2011 Ten-Year Site Plan and Corporate Physical Infrastructure Business Plans were completed and submitted on schedule. The Contractor successfully executed the Facility and Infrastructure Recapitalization Program by meeting planned goals. In addition, it implemented all of the required corrective actions and milestones for improving management of its warranties.

The Contractor's performance in reducing/maintaining the overall footprint is considered excellent as it shut-down an additional 19,678 gross square feet (gsf) of existing space; 7,110 gsf has been reduced through „gifting“ an off-site facility to the City of Livermore and 19,806 gsf has been removed through demolition (eight structures).

The Contractor's support of Complex Transformation is excellent as it has met all CAT I/II Special Nuclear Material (SNM) commitments. This activity was performed ahead of the planned schedule with no issues. The Contractor has completed the packaging of approximately 80% of Superblock's nuclear materials, 5% ahead of schedule.

The Contractor's safe execution of authorized projects within scope, schedule, and budget is considered excellent. The project dashboard for the year reported at 97% green, 3% yellow and no red.

The Contractor’s performance in the area of energy and water conservation was very good as it provided excellent support to the Energy Savings Performance Contract (ESPC) activities and continued to implement planned measures in the Site Executable Plan. However, the ESPC contract continues to consume significant resources and to progress very slowly. Additionally, energy intensity reduction of 12.39% was short of the 15% target.

The Contractor did a good job in demonstrating operational excellence and consistency in nuclear facilities and higher-risk facilities. The nuclear safety submittals were compliant with 10 Code of Federal Regulations (CFR) 830 and generally of good technical quality. The startup and restart process was managed in compliance with DOE Order 425.1C.

The Contractor did an excellent job in the treatment, storage, and disposition of radioactive, hazardous, and mixed wastes in a safe, compliant, and efficient manner. Specifically, the Contractor transitioned all operations to a new work control process while maintaining an efficient waste receipt and disposal process and met all regulatory milestones.

3.2 Operations

		NNSA	LLNS
Operations Overall LLNL Rating		Very Good	Very Good
8.	Maintain safe and environmentally sound operations in an efficient and effective manner in support of mission objectives.	Very Good	Very Good
9.	Maintain secure operations in an efficient and effective manner in support of mission objectives.	Very Good	Very Good

Performance Objective 8: ES&H

The Contractor did a very good job of performing work under Objective 8, earning a very good rating on all three performance measures. The Contractor met or exceeded many of the performance targets and evaluation criteria associated with this objective by maintaining safe and environmentally sound operations in an efficient and effective manner in support of mission objectives. The Contractor effectively maintained ES&H institutional programs; continually improved to achieve operational excellence in site operations; maintained an effective emergency management program; and executed the FY 2010 cleanup program in accordance with regulatory requirements and LSO direction. Examples include the completion of industrial hygiene facility baselines at end of the FY (171 facilities evaluated); completion of commitments contained within the LLNL Emergency Readiness Assurance Plan; and consistent with federal direction, completion of FY 2010 milestones from the Environmental Management Site 300 Cleanup Project.

However, it is noted that there are opportunities for improvement in the Contractor’s explosives safety, fire protection, industrial hygiene, and occupational medicine programs. The Contractor should also continue to implement the planned upgrades to the outdated emergency voice alarm

system and decrease worker risks by removing excess high hazard chemicals. These items are addressed in the FY 2011 PEP.

Performance Objective 9: Security

The Contractor did a very good job of performing work under Objective 9, earning an excellent rating on one performance measure, very good on three, and good on one. The Contractor met or exceeded nearly all of the performance targets and evaluation criteria associated with this objective by effectively managing security operations and meeting security performance expectations. The Contractor significantly strengthened oversight of the overall security program as demonstrated through its aggressive actions to close long-standing findings, planning for the post-deinventory FY 2013 security program, self-initiated reviews of security programs, and follow-up actions on security incidents. Significant improvements were achieved in the PAP, budgeting practices, and the Personnel Development and Training program. Notable reductions in nuclear material and classified matter inventories were also achieved. Contractor assurance in completing Annual Operating Plan (AOP) security objectives was significantly improved. The Contractor's security program was rated Satisfactory (highest rating available) in the LSO FY 2010 comprehensive survey.

3.3 Institutional Management

		NNSA	LLNS
Institutional Management Overall LLNL Rating		Very Good	Excellent
10.	Manage business operations in an effective and efficient manner while safeguarding public assets and supporting mission objectives.	Excellent	Excellent
11.	Improve the performance of the Laboratory, provide transparency to the customer, and support the Nuclear Security Enterprise.	Very Good	Excellent

Performance Objective 10: Business Operations

The Contractor did an excellent job of performing work under Objective 10, earning an excellent rating on all three performance measures. The Contractor met or exceeded nearly all of the performance targets and evaluation criteria associated with this objective by managing the business operations in an effective and efficient manner while safeguarding public assets and supporting mission objectives. The Contractor maintained an overall satisfactory performance rating on the 2010 OFFM Integrated Contractor Financial Management Performance Measures and developed a new rate structure in order to become compliant with the Cost Accounting Standards. Additionally, the Contractor has placed all of its institutional indirect funded work under baseline configuration control and begun implementing the same system for direct funded activities. Finally, the Contractor deployed Microsoft Exchange to all e-mail users throughout the Laboratory, significantly exceeding its stretch target of deploying to the Business and Operations Principal Associate Director (PAD).

The Contractor continues to perform at an excellent level in both property management and procurement. Property management earned an outstanding rating on the Property Management Assessment Model and completed its FY 2010 attractive wall-to-wall physical inventory with an accountability rate of 99.95%. The Contractor's purchasing system continued to perform at a high level based on the results of the objective's matrix report, with the quality index in the outstanding range. Additionally, the Contractor provided outstanding support to the NNSA Supply Chain Management Center by meeting or exceeding all of its goals. Although it noted that the Contractor did not fully meet its socioeconomic goals and that there were quality issues involving a major solicitation package for National Ignition Facility (NIF) construction services, the Contractor has begun to implement changes that should rectify these issues in FY 2011.

In the Strategic Human Capital arena, the Contractor's Associate Director demonstrated strong leadership by exceeding its internal metrics in recruitment, development, and maintenance of the workforce. The Contractor successfully executed changes to health and welfare as well as a contract competition, which resulted in cost savings in benefits and pension administration costs.

Performance Objective 11: Institutional Management

The Contractor did a very good job of performing work under Objective 11, earning an excellent rating on two performance measures, very good on two, good on one, and satisfactory on one. The Contractor met or exceeded many of the performance targets and evaluation criteria associated with this objective by improving the performance of the Laboratory, providing transparency to the customer, and supporting the Nuclear Security Enterprise.

The Contractor did a very good job in executing a CAS with all of the requisite elements. The CAS Office has made very good progress in revising institutional documents, refining requirements management, improving institutional assessment planning, improving the development and use of metrics at the institutional level, and implementing continuous improvement efforts. Although the Contractor has advanced efforts to make the CAS more transparent to LSO for oversight purposes, electronic access to some CAS information is limited. While the CAS continues to mature, opportunities to improve its transparency and better utilize the tools more efficiently and effectively to manage the Laboratory remain.

The Contractor did a satisfactory job of implementing strategic initiatives by establishing a Work for Others (WFO) Business Office, which is a first step to enabling a more strategic and institutional approach to planning and executing proposed WFO projects. The continued management of the defined benefits and defined contribution plans with Los Alamos National Security, LLC under a single plan resulted in cost savings in management fees, investment consultants, legal advice, and benefits administration.

The Contractor made significant progress in its management of key personnel and its succession planning efforts. The Contractor developed a key personnel offer letter with financial incentives/disincentives that are aligned with the two-year commitment. The Contractor also implemented a one-year leadership development program in coordination with the UC Berkeley Haas School of Business, designed to help develop future leaders at the Laboratory.

The Independent Audit and Oversight Department completed independent internal audits in accordance with the approved revised FY 2010 Audit Plan and performed at the excellent level. Additionally, it expertly managed external investigations and audits. Two notable accomplishments of the Audit and Oversight Department this past year include: 1) the co-hosting of the Tenth Biennial Joint DOE Conference in San Francisco; and 2) the Ethics Working Group deliverable of the LLNS web-based ethics training course, which highlights potential risks and is mandatory for all Contractor employees.

The Contractor’s legal office did an excellent job of implementing and following the Legal Management Plan in compliance with 10 CFR Part 719. Additionally, the Lab Counsel’s Office incorporated best practices into its operations by restructuring how it provides legal services to the various elements throughout the Laboratory. Attorneys in the Laboratory Counsel’s office provided timely, accurate and critical information to the LSO Site Legal Counsel which allows for effective communication to the LSO Site Manager and the NNSA General Counsel.

The Contractor did a good job in developing and implementing a process to track, trend, and take appropriate actions as a result of accident, injury, and illness rates. Additionally, the Quality Assurance Office has completed several significant activities and milestones during the FY to support the Laboratory’s goals for continuous improvement, improvement of quality products and services, and demonstration of an integrated and effective quality program.

4.0 Award Term Incentives

#	Description	NNSA	LLNS
1.	National Ignition Campaign	Fail	Pass
2.	Safety Management	Pass	Pass
3.	Leadership in Supporting Future Stockpile Options	Pass	Pass
4.	Security Improvement Planning for Deinventory	Pass	Pass
5.	Business Management (NNSA Common)	Pass	Pass

ATI1: NIC

The Contractor did not fully meet this ATI target. The purpose of this ATI was to measure the Contractor’s scientific progress towards ignition. The ATI required that the Contractor complete hohlraum energetics and capsule tuning experiments required to support layered target implosions, install capabilities to support layered cryogenic targets capable of producing yield, and demonstrate layered target cryogenic implosions using a mix of specific performance objectives for this work. Success criteria were quite detailed and included in the ATI target.

In FY 2010, the NIC achieved major accomplishments in striving to meet this target. The Contractor conducted the hohlraum energetics campaign and successfully commissioned the 285 eV CH point design hohlraum at point design scale (5.4 mm diameter), cryogenically cooled to below 19.3 degrees Kelvin, and at energies up to 1.2MJ. The experiments measured x-ray drive, backscattered light, capsule symmetry, neutron yield, and x-ray and electron preheat and demonstrated:

- Effective coupling laser light to the hohlraum x-ray drive (LPI losses ~ 6% of total

energy, hohlraum radiation temperature (T_{rad}) up to 285 eV with Au, 290 eV DU equivalent);

- Effective control of x-ray drive symmetry, P2 and P4, through adjustment of laser power and wavelength (P2 < 10%, P4 < 10%);
- Levels of capsule preheat from fast electrons within specification for the point design [temperature of hot electrons (T_{hot}) ~30keV, fraction of hot electrons (f_{hot}) - 1-2%]; and
- Levels of capsule preheat from hard x-rays that we can accommodate by slight change in ablator dopant (x-rays > 1.8 keV, ~ 17%) of radiation).

Several important shots were conducted during the year. Perhaps most importantly, a cryo-layered tritium hydrogen deuterium capsule was imploded on NIF on September 29, 2010. This experiment demonstrated the integration of the complex systems required for an ignition campaign.

Despite significant scientific accomplishments, important criteria for this ATI were not met. Many of these success criteria were part of the Level 1 milestone which was re-baselined at the end of the FY into FY 2011. A new Level 1 milestone was created with a different set of success criteria for FY 2010. However, the evaluation criteria for this ATI remained unchanged; the progress against the new milestone is reflected in the evaluation of PEP Objective 4. In addition, issues were identified with the overall management of the ICF program. These include a failure to adequately manage risks associated with changes in program funding and poor communication with NNSA program managers. Consequently, the Contractor has failed to pass this ATI target.

ATI 2: Safety Management

The Contractor fully met this ATI target. On July 30, 2010, we notified the Contractor it had re-verified the implementation of Integrated Safety Management System. On September 27, 2010, the Contractor provided an Implementation Plan which indicated that it would obtain third-party certification of Occupational Health and Safety Assessment Series 18001. We have included the certification requirement in the FY 2011 PEP.

ATI 3: Leadership in Supporting Future Stockpile Options

The Contractor fully met this ATI target. In addition doing an excellent job accomplishing all work under the target, the Contractor was also tasked to support NNSA's post-NPR action plan and DOE-wide exascale workshops. The Contractor participated in Tri-Lab exascale steering committee meetings, "Cross-cutting Technologies for Computing at Exascale," workshop, and the "NNSA Exascale Environment Planning Meeting." The Contractor successfully packaged 76% of Security Category I/II nuclear material for off-site shipment by the third quarter. In addition, it completed all requested briefings in support of NPR and START treaty discussions.

ATI 4: Security Improvement Planning for Deinventory

The Contractor fully met this ATI target. The ATI target required the Contractor to achieve continuous improvement in security planning, operations, and AOP implementation. It also required development of a comprehensive security program plan for the planned de-inventory of Category I and II SNM. The Contractor completed corrective action plans for all Findings identified during the 2008 inspection by DOE's Office of Health, Safety, and Security (HSS).

The Contractor's PAP continues to mature and has demonstrated marked improvement during the past two years. During FY 2010, the Contractor resolved the significant weaknesses that resulted in the 2008 HSS Findings. Our review of current contractor PAP implementation concluded that while further work is needed to clearly link protective force actions in reporting PAP results, the Contractor's performance testing provides reasonable, on-going assurance in protection system effectiveness. The Contractor submitted the LLNL Post-2012 Security Program Plan. This plan provides a strategy for reducing the security program footprint to steady state protection level for safeguards Category III nuclear material by March 31, 2013. The plan identified key planning activities and estimated the annual reduction of security costs.

ATI 5: Business Management (NNSA Common)

The Contractor fully met this common NNSA ATI target by successfully completing Business Management Advisory Council (BMAC) activities. Feedback for this target was largely provided by Headquarters (NA-63), as it was the NNSA focal point for the BMAC, an enterprise-wide initiative. The BMAC achieved approximately \$172 million in savings across the Nuclear Security Enterprise. The Contractor was fully supportive of the BMAC and actively participated in BMAC activities including Supply Chain, Financial, Personal Property, and Contractor Human Resources.

Appendix A

A-1 Mission Measure Ratings

Note that rationale in support of the individual ratings is available in the Performance Evaluation Report (PER) back-up file.

Measure	Description	NNSA	LLNS
1	Enhance Assessment of US Nuclear Weapons & Future Stockpile Options.	Excellent	Excellent
1.1	Conduct warhead certification/assessments, using QMU.	Excellent	Excellent
1.2	Develop technical options for sustaining the stockpile.	Excellent	Excellent
2	Develop and Implement Long-Term Integrated Stewardship Program.	Very Good	Very Good
2.1	Address weapons physics and engineering challenges.	Very Good	Excellent
2.2	Advance Weapon Simulation System capability.	Excellent	Excellent
2.3	Develop and implement collaborative strategies/complementary programs.	Excellent	Excellent
2.4	Provide Key Experimental Data.	Very Good	Very Good
3	Execute Near-term Weapons Program.	Excellent	Excellent
3.1	Complete programmatic deliverables as specifically described in the Defense Program Milestone Reporting Tool. [Program-wide]	Excellent	Excellent
3.2	Meet directive schedule requirements, conduct surveillance, investigate significant findings, and provide technical support to production complex operations.	Excellent	Excellent
3.3	Execute collaborative programs.	Excellent	Excellent
4	Execute Inertial Confinement Fusion Ignition and High Yield Campaign in support of stockpile stewardship.	Very Good	Excellent
4.1	Achieve ignition in the laboratory and develop it as a scientific tool for stockpile stewardship, executing National Ignition Campaign (NIC) as planned.	Excellent	Excellent
4.2	Replace key empirical parameters in the nuclear explosive package assessment with first principles physics models assessed by validation with experiment by 2020.	Good	Very Good
5	Support Nonproliferation and Threat Reduction.	Excellent	Excellent
5.1	Provide technical capabilities to limit or prevent spread of materials, technology, and expertise related to weapons of mass destruction and secure inventories of surplus materials and infrastructure usable for nuclear weapons.	Excellent	Excellent

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Measure	Description	NNSA	LLNS
5.2	Support needs of intelligence community by providing analysis capabilities, science, and technology that improve the ability to detect and thwart proliferation and terrorism to include nuclear, biological, chemical, and cyber threats.	Excellent	Excellent
6	Provide Science, Technology, and Engineering Excellence.	Excellent	Excellent
6.1	Assure the quality of the core science, technology and engineering (ST&E) competencies needed to execute DOE's mission and meet emerging national needs.	Excellent	Excellent
6.2	Develop and implement an integrated and balanced strategy for investing LDRD, programmatic and institutional resources to ensure long-term vitality of the laboratory in support of national security missions and emerging needs.	Very Good	Excellent
6.3	Execute non-NNSA sponsored projects and programs that utilize the laboratory's unique expertise, capabilities, and facilities.	Excellent	Excellent
6.4	Foster broad participation in the ST&E community and develop strategic collaborations.	Excellent	Excellent
6.5	Develop and implement a workforce plan that provides technical/scientific staff for critical needs.	Excellent	Excellent
7	Optimize current and evolving mission performance by providing effective and efficient facilities and infrastructure.	Excellent	Excellent
7.1	Operate mission critical and user facilities as national capabilities.	Excellent	Excellent
7.2	Reduce the site footprint (non-process contaminated facilities) consistent with the footprint reduction goals of the National Security Enterprise and the LLNL Site Plan.	Excellent	Excellent
7.3	Support Complex Transformation including CAT 1/II SNM commitments.	Excellent	Excellent
7.4	Execute real property construction projects as identified and agreed between NNSA and the Laboratories within scope, schedule, and budget and improve overall project management tools and processes.	Excellent	Excellent
7.5	Demonstrate progress towards achieving the energy efficiency and water conservation goals and objectives contained in Executive Order 13423, the Energy Policy Act of 2005, and the goals of DOE's Transformational Energy Action Management (TEAM) initiative.	Very Good	Excellent
7.6	Demonstrate operational excellence and consistency in nuclear facilities and higher-risk facilities through quality and timely development and implementation of environmental, safety, health, and quality documents.	Good	Excellent
7.7	Treat, store, and disposition radioactive, hazardous, and mixed waste from RHWM facilities in a safe, compliant, and efficient manner.	Excellent	Excellent

A-2 Operations Measures

Note that rationale in support of the individual ratings is available in the PER back-up file.

Measure	Description	NNSA	LLNS
8	Maintain safe and environmentally sound operations in an efficient and effective manner in support of mission objectives.	Very Good	Very Good
8.1	Maintain effective Environment, Safety, Health, and institutional programs and achieve operational excellence in site operations.	Very Good	Very Good
8.2	Maintain an effective environmental restoration program.	Very Good	Excellent
8.3	Maintain effective emergency program (including fire protection program).	Very Good	Very Good
9	Maintain secure operations in an efficient and effective manner in support of mission objectives.	Very Good	Very Good
9.1	Support the National Nuclear Security Administration (NNSA) Enterprise through DNS Management Excellence.	Very Good	Very Good
9.2	Manage risk to address the spectrum of security threats, such as reduction in classified matter, reduction of Vault Type Rooms (VTRs), reduction in number of personnel clearance levels, etc.	Very Good	Very Good
9.3	Recruit, sustain, and exercise the talents of people and critical skills.	Good	Very Good
9.4	Provide assurance of effective performance.	Very Good	Very Good
9.5	Detect, deter, and mitigate foreign intelligence collection and espionage and international terrorist threats.	Excellent	Excellent

A-3 Institutional Management Measures

Note that rationale in support of the individual ratings is available in the PER back-up file.

Measure	Description	NNSA	LLNS
10	Manage business operations in an effective and efficient manner while safeguarding public assets and supporting mission objectives.	Excellent	Excellent
10.1	Demonstrate effective and efficient business systems.	Excellent	Excellent
10.2	Demonstrate an effective and efficient supply chain management function.	Excellent	Excellent
10.3	Maintain a centralized Strategic Human Resource Management (SHRCM) department that provides leadership and infrastructure to ensure recruitment, development, and maintenance of the workforce.	Excellent	Excellent
11	Improve the performance of the laboratory, provide transparency to the customer, and support the Nuclear Security Enterprise.	Very Good	Excellent
11.1	Execute a comprehensive and integrated Contractor Assurance System (CAS) that ensures that programs and operations are managed by both line and functional managers in an effective and efficient manner and performance is continuously improved.	Very Good	Excellent
11.2	Develop, evaluate, and implement strategic initiatives to increase the effectiveness and efficiency of Laboratory and the Nuclear Security Enterprise.	Satisfactory	Excellent
11.3	Support from Board of Governors and Parent Organizations to improve the performance of the Laboratory.	Very Good	Very Good
11.4	Demonstrate an effective and efficient audit organization consistent with contractual and DOE Cooperative Audit Strategy requirements.	Excellent	Excellent
11.5	Effectively implement and follow a Legal Management Plan that complies with 10 CFR Part 719 and DEAR 970.5228-1 and incorporates best practices and procedures.	Excellent	Excellent
11.6	Institutional implementation of ESH&Q and Security requirements and line management accountability and responsibility for performance.	Good	Very Good

A-4 Stretch Targets and Results

The PEP included 31 stretch targets in Mission, 7 in Operations, and 10 in IM. The following table summarizes the status of the stretch targets in each performance area:

Target Status	Mission	Operations	Institutional Management
Pass	28	7	8
Fail	3	0	2
Total	31	7	10
% Passed	90%	100%	80%

Completion status for each of the Stretch Incentive Fee Targets is set forth as follows in Mission, Operations, and IM. Completion of the targets was validated by the assigned LSO Subject Matter Expert, Assistant Manager, and approved by the Contracting Officer as documented on the individual Target Completion Forms, which are available in the PER back-up file.

Mission

Target	Description	Status
Target 1.1.2	Complete NEP System Performance Confidence Database for second system and continue activities on third system.	Pass
Target 1.2.1	Develop stockpile sustainment options.	Pass
Target 1.2.2	Apply QMU methodology to surety efficacy.	Pass
Target 2.1.4	Implement experimental strategies and computational capabilities to understand underlying physics issues related to Boost.	Pass
Target 2.2.3	Extend application of consolidated ASC Code System.	Pass
Target 2.2.4	Demonstrate progress in adapting consolidated ASC code system for UQ use to Dawn platform.	Pass
Target 2.2.5	Demonstrate enhanced parallel scaling for multi-physics simulation code(s) on Dawn platform.	Pass
Target 2.3.4	Work with LANL to implement comprehensive peer review (dual validation) on at least one system at each site.	Pass
Target 2.3.6	Achieve physics model validation (NIF experiment).	Fail
Target 2.3.7	Extend application of Enterprise Modeling for Stockpile Stewardship and integrated DOE-DoD scenarios.	Pass
Target 2.4.3	Develop architecture for Common Control Systems (CCS) and portable bunkers to support the national hydrotest strategy.	Pass
Target 2.4.4	Develop and fabricate components in preparation for all-optical pin shot hydrotests, and execute one partial optical pin shot.	Pass
Target 2.4.5	Execute shots at the NIF, including development shots at Omega, for relevant materials in support of the National Boost Initiative.	Fail
Target 3.3.1	Support the Strategic Initiatives to help improve and streamline operations at the production agencies. Scope includes reduced costs and/or improved efficiencies for ongoing operations.	Pass

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Target	Description	Status
Target 4.1.7	10% of established NIC milestones are completed more than 30 days ahead of schedule. Approved for completion on 6/24/10.	Pass
Target 4.1.8	Cumulative NIC earned value performance CPI and SPI are greater than 0.97 at the end of FY 2010.	Pass
Target 4.1.9	Total Recordable case rate for NIC-related activities does not exceed 1.8 during FY 2010.	Pass
Target 5.1.6	Carry out ad-hoc assignments from NNSA headquarters to address emerging issues in arms control and non proliferation as appropriate. Through teaming with other NNSA laboratories develop nonproliferation and arms control proposals and white papers for discussion with NA-20 Assistant Deputy Administrators. In particular emerging priorities are START warhead verification, FMCT verification. At a minimum, LLNL should develop white papers with the other two NNSA Laboratories on technology options for addressing these emerging priorities and discuss them with senior NA-20 managers.	Pass
Target 6.2.3	Assess the value of internal investments through retrospective reviews of selected LDRD projects (principally Strategic Initiatives) that were completed in FY 2010.	Pass
Target 6.3.2	Demonstrate Customer Satisfaction.	Pass
Target 6.3.3	Develop and implement strategy for the Office of Science and other science agency sponsors to help ensure long-term vitality of LLNL's ST&E base.	Pass
Target 6.4.1	Implement new strategies to enhance licensing and commercial funding of LLNL capabilities.	Pass
Target 6.4.2	Execute Initiatives focused on HED Science, HPC, and Energy Research.	Pass
Target 6.4.3	Develop strategic partnerships through the implementation of agreements with universities having key academic and technical expertise that will contribute to Laboratory's missions in national security. In addition, build relationships with Bay Area universities which will provide evaluations of LLNL technology for commercialization.	Pass
Target 6.5.2	Support LLNL's graduate scholar opportunities through effective student hiring programs and by fostering a vigorous and effective postdoctoral program which provides a source of mission-relevant expertise and current abilities to LLNL programs.	Pass
Target 7.1.4	Develop and implement LLNL site-wide program for managing warranties for LLNL assets.	Pass
Target 7.3.3	Execute implementation plan for Category I/II work transfer.	Pass
Target 7.5.3	Meet the voluntary 10% water use reduction goal requested by the San Francisco Public Utilities Commission using FY07 as the baseline.	Fail

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Target	Description	Status
Target 7.6.6	Develop and implement an Independent Validation Review (IVR) process to evaluate the successful implementation and effectiveness of Safety Basis controls, including new and revised controls and ongoing periodic re-verification. Perform IVR of the implementation and effectiveness of Technical Safety Requirements for three LLNL nuclear facilities.	Pass
Target 7.7.3	By 9/30/10, enabled shipment(s) of TRU waste in support of National TRU Program Central Characterization Program and develop, document, and execute a Mixed Waste management plan for mixed waste streams treated onsite with the expectation these wastes will not be added to the Federal Facilities Compliance Act (FFCA) Site Treatment Plan (STP).	Pass
Target 7.7.4	Develop and demonstrate a process for repackaging TRU waste consistent with the EM packaging guidance issued 10/9/2008 in preparation for implementation of a packaging campaign in FY 2011.	Pass

Operations

Target	Description	Status
Target 8.1.5	Acquire and implement an occupational health data management system that electronically integrates E-IWS, SEGs, IH Baseline data, and medical surveillances.	Pass
Target 8.1.6	Improve the LLNL radiation protection program by upgrading a minimum of 10% of the hand-held equipment based on a protocol of 10-year replacement frequency).	Pass
Target 8.2.3	The newly developed five year project plan (see 8.2.2) for the ERD Projects at Site 200 and Site 300 should result in at least 10% of the total ERD funding in the current approved baseline funding profile (2004) during fiscal years FY 11 through FY 14 applied towards source area remediation and other activities to accelerate site completion. The plan would be placed under configuration management and change control.	Pass
Target 8.3.2	Complete and implement performance year deliverables in accordance with the LSO-approved action plan to accelerate replacement of antiquated paging systems with a single, code-compliant paging system that completes at least seven facilities.	Pass
Target 8.3.3	LLNS will prepare a plan that will identify the costs, scope, and schedule to eliminate the backlog of life safety deficiencies in 2 years. This plan will be submitted to the LSO by October 31, 2009 for LSO approval. LLNS will repair/correct the deficiencies per the LSO-approved plan.	Pass
Target 9.2.4	Destroy 20% of ACREM holdings.	Pass
Target 9.2.5	Install badge readers at limited area access points now controlled only by PSOs (Post 1D and West Main Gate).	Pass

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Institutional Management

Target	Description	Status
Target 10.1.3	Deploy Microsoft Exchange by Sept 15, 2010 to all e-mail users in the Operations and Business PAD.	Pass
Target 10.2.5	Establish and implement a professional acquisition career development program that includes experience/education and training requirements, succession planning, and rotational opportunities.	Pass
Target 10.3.1	Fully execute an institutional human resources business system that will produce workforce data and reports by August 31, 2010.	Pass
Target 10.3.2	Fully execute by August 31, 2010 the recommended improvements from the FY 2009 Employment Six Sigma Performance Improvement Plan to decrease new employee job offer cycle time from 120 days to 60 days.	Pass
Target 10.3.3	Fully execute a NNSA acceptable compensation program by April 30, 2010 for use in the employees performance period September 1, 2009 to August 31, 2010 for all career indefinite employees. consists of all the following elements: 1) identifies roles, responsibilities, and pay ranges for all LLNL jobs including managers and individual contributors; 2) makes pay-linked distinctions internally between LLNL jobs, including distinctions within management jobs and within individual contributor jobs; 3) sets pay for LLNL jobs based on surveys of similar jobs in the relevant market including local market by occupation; 4) establishes the objective and mechanisms for paying each LLNL job consistent with pay in the market on average for that job's responsibility level and occupation; 5) incorporates for key personnel, other management personnel, and other employees, as appropriate a variable (non-base) pay as an integral compensation component to enhance incentives for LLNL employee performance and improve cost effectiveness; and 6) links the pay of individual LLNL employees with their job performance.	Pass
Target 11.2.3	Partner with LANS to identify, at least one new integrated opportunity in each of the following categories: create a unique center of excellence, share and implement a best practice, and create a compatible system that enhances the ability to share data, work remotely, and report joint progress. Assess the gaps, define the required enhancements, and develop a FY 2011 implementation plan for the opportunity in each category. Provide in writing by 9/15/2010 the results and an implementation plan for execution beginning FY 2011.	Fail

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Target	Description	Status
Target 11.2.4	Reduce Laboratory support costs by \$150M by the end of FY 2012. FY 2010 target is completion by 9/30/2010 defined outcomes for the unfunded priority activity listing below. Outcomes with appropriate estimated value will be agreed to by the Parties by 11/1/2009. The total estimated value will be applied toward reducing the \$150M. Outcomes with appropriate estimated value are defined by unfunded priority activity category as follows: TBD.	Fail
Target 11.2.5	Establish Work for Others (WFO) as a major business line utilizing a better coordinated, institutional, and strategic approach to planning and executing WFO. Improve the efficiency and effectiveness of the WFO program by implementing LLNS six sigma team, WFO task force, and functional management review (FMR) recommendations. Enhance the WFO environment through development of Livermore Valley Open Campus (LVOC) and by providing broader access for industrial, academic, and governmental partners to science, technology, and engineering capabilities at LLNL.	Pass
Target 11.3.2	The database will be updated to include the disposition of recommendations from all parent reviews/assessments performed in FY 2009. Implement/execute a minimum of 30% of the FY 2009 recommendations and complete 85% of the FY 2008 recommendations that provide for demonstrable improvements to Laboratory processes and practices.	Pass
Target 11.6.4	Transform NNSA by leading the complex in the area of sustainable management and establish LLNL as a recognized leader in the area of sustainable management of federal facilities.	Pass

A-5 Multi-Site Targets

Based on the determination of NA-10, all of the multi-site targets were successfully completed with the exception of Target 3.1, which was canceled at the end of the fiscal year, and Target 3.3, which was failed. The available multi-site fee of \$2,975,422 was reduced by \$535,576 and \$208,280, respectively, as directed by NNSA HQ.

Multi-Site	Multi-Site Target	Status
1 Stockpile	1.1 Achieve the W76-1 LEP scheduled deliveries to the U.S. Navy: a. Each site builds hardware for PX, with a 90-Day Lead-time, and deliveries are made as directed in the PCD. b. PX builds and prepares scheduled units for shipment as directed in PCD.	Pass
	1.2 Execute B61 LEP Phase 6.2 Study in FY2010.	Pass
	1.3 Deliver limited life components and Alternation Kits to the Department of Defense in accordance with the MNS Volume III: 100% of scheduled LLDs delivered.	Pass
	1.4 Execute Surveillance Program defined by the SESC. Each Site will execute surveillance work scope according to the PCD: a. Each Site must complete FY10 surveillance activities in accordance with the PCD. b. Each Site must provide evidence of completion (written report) for each activity identified in approved IWET plans. c. Each Site must report FY10 surveillance activities to QERTS.	Pass
	1.5 Perform Dismantlements. Exceed the PCD scheduled weapon dismantlement quantities at Pantex and secondaries at Y-12.	Pass
	1.6 Authorize the B53 and W84 programs in accordance with the NNSA approved project plan.	Pass

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Multi-Site	Multi-Site Target	Status
2 Enterprise Integration	2.1 Successfully complete NNSA-approved priority activities in support of Enterprise Reengineering: a. Sandia National Laboratories and Nevada Test Site evaluate and develop and executable plan to implement the KCP governance model for all operations/activities by 31JAN10 and begin implementation immediately following NNSA approval. The plan should include: 1) Replacement of DOE Directives with applicable industrial standards. 2) Creating a Local Directives Review Board for evaluation of new DOE requirements for incorporation in M&O contracts. 3) Establish a process that requires Site office approval and subsequent contractor tasking for all external review findings pertaining to non-nuclear operations/activities. b. Pantex, Y-12, LANL, LLNL and SRS evaluate the KCP governance model for graded incorporation for Site operations/activities as follows: 1) Sites submit evaluation of feasibility to Site Office by 31JAN10. 2) Following NNSA review and appropriate contractual direction begin implementation and meet key plan milestone as evaluated by the Site Offices by 30 Sep10. d. Pantex and Y12 submit a joint proposal to NNSA by 31JAN10 to allow Pantex to recertify containers. e. Execute Baseline/Benchmark based improvements: 1) The Phase-3 of the Macro Baseline/Benchmark effort is completed and common improvement areas are identified and agreed to by HQ by 01JAN10. 2) FY10 scope associated with the improvement areas is completed by 30SEP10.	Pass

Multi-Site	Multi-Site Target	Status
<p align="center">2 Enterprise Integration</p>	<p>2.2 Implement Elements from the approved FY10-15 Multi-Site IT Strategic Plan Targets: a. Implement the FY09-developed and approved IT-Cyber Integration Roadmap, achieving defined milestones by 30SEP10. b. Implement the approved core, common NSE services strategy and technical approach developed in FY09 by 30SEP10. c. Improve collaborative services: 1) Develop a collaborative services roadmap by 31MAR10. 2) Identify and dedicate collaborative Service Centers of Excellence by 30JUN10. 3) Deploy IP and ISDN-based video-teleconferencing enhancements by 30SEP10. 4) Implement near-term recommendations of the FY09 cross-Complex comparison of IT costs by 30SEP10. d. Improve Cyber incident Response (Cyber Tracer Team): 1) Establish and conduct a review of a concept of operations (CONOPS) document; the CONOPS will contain an agreed upon governance model by 31 AUG10. 2) Demonstrate collaborative initiatives through cyber-defense exercises and sharing of incident data by 31MAR10. 3) Identify the components of a training program designed to develop Cyber Security analysts and incident responders by 30JUN10. e. Implement NSE Wireless Capability: 1) Provide information and support necessary for a 3rd party to complete and enterprise wide wireless business case analysis (28FEB10). 2) Propose a model for headquarters-level NSE Wireless Standards accreditation with integrated cyber, TSCM, Tempest, etc. that establishes reciprocity across NNSA (31AUG10). If the business case of "e.1)" above is approved and funding is available to make a contract award, issue a NSE-wide wireless RFP for NNSA HQ review and approval (within 180 days of business case approval).</p>	<p align="center">Pass</p>
	<p>2.3 Support business process transformation and relocation of the Kansas City Plant. Within allocated resources, and taking into account NNSA stockpile priorities, focus budget, resources, planning and execution to support KCP inventory reductions, requalification of outsourced technologies, and product build-ahead's in support of KCRIMS in order to minimize impact on delivery commitments.</p>	<p align="center">Pass</p>

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Multi-Site	Multi-Site Target	Status
3 Science	3.1 NIF: begin first integrated ignition experiments.	Canceled
	3.2 Build a framework to assess changes in agreement of simulation predictions with experimental data from representative UGTs as new science-based modeling capabilities are incorporated into modern ASC codes.	Pass
	3.3 Successfully perform high-priority DP mission-related science experiments: a. Restart operations at safety category 3 at JASPER and complete scheduled FY10 dynamic plutonium experiments. LLNL Lead; NTS, LANL Participating. b. Perform the high priority dynamic plutonium experiments on ZR at the authorized current levels, and extend the ZR authorization basis to the full-current level. SNL & LANL Co-Lead; NTS Participating. c. Perform hydrotests at DARHT consistent with the FY10 National Hydrotest Plan. LANL Lead; LLNL, NTS Participating. d. Perform the Bacchus and Barolo experiment series at U1a, one confirmatory and one Pu experiment to be executed during 2QFY10. LANL Lead; NTS, SNL Participating.	Fail
	3.4 Advanced Simulation & Computing. Provide reliable, quality service and access to any NNSA laboratory from any NNSA-designated computing user facility, independent of the location of the computing resource being utilized. a. Access to any NNSA-designated computing user facilities (especially Cielo and Red Storm) will be available to all three Laboratories. b. Implementation of a peer review process for access to each designated facility with criteria based on program priority; user facility will work to assure machine utilization rates of >85%.	Pass

A-6 Acronyms Used in This Report

ACREM	Accountable Classified Removable Electronic Media
AOP	Annual Operating Plan
ATI	Award Term Incentive
BMAC	Business Management Advisory Council
CAS	Contractor Assurance System
CFR	Code of Federal Regulations
DARHT	Dual-Axis Radiographic Hydrodynamics Test
DoD	Department of Defense
DOE	Department of Energy
DSW	Direct Stockpile Work
ES&H	Environmental, Safety, and Health
ESH&Q	Environmental, Safety, Health, and Quality
ESPC	Energy Savings Performance Contract
FDO	Fee Determining Official
FY	Fiscal Year
gsf	gross square feet
HSS	Office of Health, Safety, and Security
ICF	Inertial Confinement Fusion
IM	Institutional Management
JASPER	Joint Actinide Shock Physics Experimental Research
LANL	Los Alamos National Laboratory
LLNL	Lawrence Livermore National Laboratory
LLNS	Lawrence Livermore National Security, LLC
LSO	Livermore Site Office
NIC	National Ignition Campaign
NIF	National Ignition Facility
NNSA	National Nuclear Security Administration
NPR	Nuclear Posture Review
OFFM	Office of Field Financial Management
PAD	Principal Associate Director
PAP	Performance Assurance Program
PEP	Performance Evaluation Plan
PER	Performance Evaluation Report
Pu	Plutonium
SNL	Sandia National Laboratory
SNM	Special Nuclear Material
ST&E	Science, Technology, and Engineering
START	Strategic Arms Reduction Treaty
UC	University of California
US	United States
WFO	Work for Others