

**U.S. NUCLEAR REGULATORY COMMISSION**  
**FY 2002 MAJOR IT SYSTEMS SUPPORT**  
**FOR NRC STRATEGIC PLAN**

x/2

## FY 2002 Major IT Systems Support for NRC Strategic Plan

Strategic Arena					
IT Investment	Nuclear Reactor Safety	Nuclear Materials Safety	Nuclear Waste Safety	International Nuclear Safety Support	Management and Support
Reactor Program System (RPS)	X				
Agency Documents Access and Management System (ADAMS)	X	X	X	X	X
Standard Financial Information and Resource Enterprise (STARFIRE)	X	X	X	X	X

X = Strategic Arena Affected

## **NRC'S MAJOR SYSTEMS PORTFOLIO**

### **Reactor Program System**

The Reactor Program System (RPS) provides reactor inspection and licensing information that can be used to improve NRC's ability to better monitor plant performance characteristics, effectively compare plant performance and better identify early causes for concern. RPS collects information once, at the source, and integrates information for both inspections and licensing in one location. RPS replaces ten legacy systems and provides a higher level of efficiency at a reduced long term cost.

### **Agency-wide Documents Access and Management System**

The Agency-wide Documents Access and Management System (ADAMS) will be the core document management system that will store all new documents electronically in one location, capture documents as they are created, and allow staff searches of the new electronic document collection and the index database of NRC's historical document collection at their workstations. ADAMS is designed to be acceptable to the National Archives and Records Administration as NRC's official electronic record keeping system. ADAMS deployment will support programmatic needs for improved document management systems in the office of Nuclear Reactor Regulation (the RPS project). The existing Nuclear Documents System (NUDOCS) will be retired when ADAMS is deployed.

### **Standard Financial Information and Resource Enterprise (STARFIRE) System**

The STARFIRE system is a fully integrated, agency-wide Financial and Resource Management System. This system is comprised of ten separate modules, plus an executive information system and data warehouse, which are being implemented in two parts. With the termination of the contract for the core accounting system in July 1999, the STARFIRE system implementation was downsized to include only those modules having the most immediate impact on the agency. The remaining modules will be the subject of a separate project action. When completed, the system will completely update the NRC's business capability and will serve as the single, authoritative source of financial and resource information for the entire agency. It will eliminate the need for individual offices to maintain the current mix of aging systems which minimally meet reporting and functional requirements of the agency and its program managers.

### **Summary of IT Capital Reporting for the Nuclear Regulatory Commission**

The NRC has three major IT investments that meet the criteria for Clinger-Cohen Capital Asset reporting: the Reactor Programs System (RPS), STARFIRE - the Agency's integrated resource management system, and the Agency Documents Access and Management System

(ADAMS). The Agency's Executive Council, composed of the Executive Director of Operations, the Chief Financial Officer, and the Chief Information Officer, has reviewed the status of each system for performance, schedule, and cost goals and reports the following:

- RPS
  - is expected to deliver planned performance goals
  - is on schedule
  - will meet baseline cost estimates
- STARFIRE
  - four of the original goals expected to be partially achieved. Core Accounting module postponed. Two new goals established for downsized project
  - schedule slip of one fiscal year for four modules and two fiscal years for the remaining module
  - project contract termination on July 23, 1999, resulted in a significant cost variation: thirty nine percent and twenty seven percent of the original and current baselines, respectively
- ADAMS
  - the four goals were disaggregated into seven project objectives. One objective not achieved. The other six were achieved or partially achieved
  - system declared operational in April 2000. Implementation of software vendor's maintenance releases is scheduled
  - cost variation not significant: less than nine percent and three percent from the original and current baselines, respectively

The Executive Council reviews the variance of major IT Project goals and decides whether to continue, modify, or terminate each project. The Council's decisions are:

- Continue the RPS project with the original goals for cost, performance, and overall project completion schedule.
- Continue ADAMS project, now operational. Conduct lessons learned study of implementation.
- Continue with downsized STARFIRE project with increased development cost. Evaluate postponed Core Accounting module as new project.

Consistent with the IT Management improvements foreseen in the Clinger-Cohen act, the agency has effectively managed its IT portfolio. Two major complex projects are on track and we have acted promptly to terminate the contract on a poorly performing project module. We will take corrective action to ensure that the STARFIRE project will meet the agency's resource management needs in a cost effective manner.

Exhibit 300A  
**IMPACT OF FULL FUNDING OF CAPITAL ASSETS**  
**U.S. NUCLEAR REGULATORY COMMISSION**  
(budget authority in millions)

	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	TOTAL *
<b>PART I: NEW PROJECTS FUNDED BEGINNING IN FY 2000 THROUGH FY 2006</b>									
<b>A. Annual incremental amounts of budget authority requested for new projects:</b>									
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>B. Agency recommendation for redistribution to segments (or modules) that are economically and programmatically separable and fully funded:</b>									
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>PART II: PAST PROJECTS FUNDED IN FY 1999 OR EARLIER:</b>									
<b>A. Annual incremental amounts of budget authority requested for past projects:</b>									
Salaries and Expenses	7.5	5.7	3.1	3.3	0.0	0.0	0.0	0.0	19.6
Inspector General	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	7.5	5.7	3.1	3.3	0.0	0.0	0.0	0.0	19.6
<b>B. Agency recommendation for redistribution to segments (or modules) that are economically and programmatically separable and fully funded:</b>									
Salaries and Expenses	na	na	na	na	na	na	na	na	na
Inspector General	na	na	na	na	na	na	na	na	na
Total	na	na	na	na	na	na	na	na	na

\* na indicates not applicable.