



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

November 9, 1990

The Honorable Wendell H. Ford
Chairman, Joint Committee on Printing
Congress of the United States
Washington, D.C. 20510-6650

Dear Mr. Chairman:

Enclosed is the Comprehensive Printing Program Plan for the Nuclear Regulatory Commission. As you suggested in your April 4, 1990 letter, I have also included a narrative report on activities of the agency's electronic publishing system. The report of our electronic publishing system cites application successes, problems, and actual cost savings achieved in FY 1990. The Comprehensive Printing Program Plan includes printing activities anticipated for fiscal year 1991, and projections for fiscal years 1992 and 1993, where applicable.

I trust that the enclosed report responds to the Committee's request. If members of the Committee staff have any further questions on this matter, please contact me by telephone on 301-492-7211.

Sincerely,

A handwritten signature in cursive script that reads "Donnie H. Grimsley".

Donnie H. Grimsley
Central Printing and Publications Manager
Office of Administration

Enclosure:
As stated

U.S. NUCLEAR REGULATORY COMMISSION

PRINTING ACTIVITIES

THREE-YEAR PLAN

FY 1991 - FY 1993

U.S. NUCLEAR REGULATORY COMMISSION
PRINTING ACTIVITIES
THREE-YEAR PLAN
FY 1991 - FY 1993

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Part I - General

A. Departmental Mission Statement

The Nuclear Regulatory Commission (NRC) is responsible for licensing and regulating nuclear facilities and materials and for conducting research in support of the licensing and regulatory process. These responsibilities include protecting public health and safety, protecting the environment, protecting and safeguarding materials and plants in the interest of national security, and ensuring conformity with antitrust laws.

B. Printing and Publishing's Role

The role of printing and publishing is to ensure easy, rapid, and efficient staff and public access to NRC information, such as staff and contract reports and studies, rulemakings, regulatory guides, bulletins, and correspondence. The public gains access to documents primarily through the Commission's public document rooms, the Government Printing Office (GPO) sales program, and through the National Technical Information Service (NTIS).

C. Printing and Publishing Policies

NRC printing and publishing efforts have as their goal the prompt availability of NRC documents based upon programmatic need, whether that need be in the conduct of licensing proceedings, public affairs, support of Congressional, State, or international relations, or in the performance of NRC-sponsored contract activities. The directives for this effort are consistent with Office of Management and Budget (OMB) guidelines and Joint Committee on Printing (JCP) regulations. Within the scope of these efforts:

1. Access to publicly available NRC information is provided in the Commission's Public Document Room in Washington, D.C., and in Local Public Document Rooms throughout the U.S. which provide access to publicly available NRC information related to particular licensed facilities.
2. A "Title List of Documents Made Publicly Available" is produced monthly and sold through NTIS and GPO.
3. Documents related to NRC licensing proceedings are given to all parties to those proceedings, as are documents produced under the NRC's Board Notification Program.

4. Formal NRC reports and publications are made available for purchase through the NTIS and GPO. Exceptions to this policy are tightly controlled.
5. Single copies of documents that are subject to public comment, such as draft regulatory guides, proposed rules, and petitions for rulemaking, are made available free upon request, to the extent of supply, and are also mailed directly to affected licensees and other interested parties. Final documents generally are made available free to all who formally comment on the drafts.
6. Documents that require input from sources outside NRC are free to those who provide information or whose input represents a significant contribution.

Specific operational policies are:

1. Resources are used to meet NRC official business requirements only.
2. Copying at unstaffed copiers is limited to the number of documents and pages per document posted at copier locations.
3. The NRC seal is the only logo permitted on NRC publications, except for inter-agency joint reports.
4. Distribution lists are updated and purged annually.
5. Stocks of NRC documents are reviewed annually to ensure that only necessary supplies are maintained.

D. Strategies and Tactical Plans

NRC management goals include providing a rapid turnaround time for printing and distribution services, and providing these services as effectively and efficiently as possible by employing the latest technology.

Management strategies used to ensure these goals include:

1. Ensuring that GPO contractors produce quality work on schedule.

2. Enforcing applicable rules and regulations concerning the printing and dissemination of information.
3. Updating methods of producing camera-ready copy by means of an electronic publishing system.
4. Ensuring that newly purchased automated equipment is compatible and can communicate with NRC's existing automated systems and equipment.
5. Taking advantage of GPO's new contracts, such as on-demand printing and maintenance of computer data bases.
6. Maintaining distribution list guidelines and verifying distribution list annually.
7. Controlling publication inventories.

Specific actions taken to ensure implementation of management plans are:

1. NRC has established a contract with GPO in Laurel, Maryland, to have GPO receive, distribute, and store for later distribution, to meet staff requirements, all documents that are made available to the public. To date, GPO has successfully operated the system and improved service and response time.
2. Copying and duplicating equipment and services are continuously reviewed. In response to these reviews, lease/purchase decisions often change and equipment is replaced, reducing the cost per copy. These review actions are a continuous process within NRC.
3. Standby contractor support has also been established through GPO to meet peak copying loads.

NRC continues to increase the staff's awareness of printing, storage, and distribution costs at all points in the decisionmaking and production process.

In the past year, for example, NRC was able to compose and generate camera-ready copy for 98 various staff reports on their newly acquired electronic publishing system (KEEPS). NRC was able to save \$45.4K in printing and composition costs by its use of the KEEPS system.

Part II - Activity Analysis

A. Printing Environments

NRC Headquarters offices are located in the Washington, D.C., metropolitan area. NRC also has five regional offices located in or near Philadelphia, PA, Chicago, IL, Atlanta, GA, Dallas, TX, and San Francisco, CA; a Training Center in Chattanooga, TN; a Uranium Recovery Field Office in Denver, CO; and at the Las Vegas, Nevada office of the NRC site representative for the proposed high-level waste repository at Yucca Mountain, Nevada. Additionally, NRC has assigned resident inspectors to each nuclear power plant in the United States. Offices for each resident inspector have been equipped with table-top copiers.

The NRC staff primarily comprises high-level professional and technical personnel. Placement decisions for self-service and staffed copier must weigh per-page costs against professional and technical staff requirements and time.

1. Unmanned Self-Service Copiers

The following is a list of unstaffed self-service copiers located within NRC, keyed to the current NRC location.

a. U.S. Nuclear Regulatory Commission
Region I, King of Prussia, Pennsylvania

VENDOR	MODEL	ACCESSORIES	LOCATION
Kodak	85	SORT	RI Offices
Kodak	85	SORT	RI Offices
Xerox	1035	-	RI Offices
Xerox	1048	RDH/FIN	RI Offices
Xerox	1050	RDH/FIN	RI Offices
Xerox	1050	RDH/FIN	RI Offices
Xerox	1050	RDH/FIN	RI Offices
Xerox	1050	RDH/FIN	RI Offices
Xerox	1065	RDH/FIN	RI Offices
Mita	DC211	-	Beaver Valley
Mita	DC211	-	Calvert Cliffs
Mita	DC211	-	FitzPatrick
Mita	DC211	-	Ginna
Mita	DC211	-	Haddam Neck
Mita	DC211	-	Hope Creek
Mita	DC211	-	Indian Point 2
Mita	DC211	-	Indian Point 3
Mita	DC211	-	Limerick 1
Mita	DC211	-	Limerick 2
Mita	DC211	-	Maine Yankee
Mita	DC211	-	Millstone
Mita	DC211	-	Nine Mile Pt. 1 & 2

Region I (Continued)

VENDOR	MODEL	ACCESSORIES	LOCATION
Mita	DC211	-	Oyster Creek
Mita	DC211	-	Peach Bottom
Mita	DC211	-	Pilgrim
Mita	DC211	-	Salem 1 & 2
Mita	DC211	-	Seabrook 1 & 2
Mita	DC211	-	Shoreham
Mita	DC211	-	Susquehanna
Mita	DC211	-	Three Mile Island
Mita	DC211	-	Vermont Yankee
Mita	DC211	-	Yankee Rowe

b. U.S. Nuclear Regulatory Commission
Region II, Atlanta, Georgia

VENDOR	MODEL	ACCESSORIES	LOCATION
Xerox	5052	RDH/FIN	RII Offices
Xerox	5052	RDH/FIN	RII Offices
Xerox	5052	RDH/FIN	RII Offices
Xerox	5052	RDH/FIN	RII Offices
Xerox	5052	RDH/FIN	RII Offices
Canon	PC-25	-	Bellefonte
Canon	NP155	-	Browns Ferry
Canon	PC-25	-	Brunswick
Canon	PC-25	-	Catawba
Ricoh	FT6085	-	Chattanooga Training
Savin	7025	-	Chattanooga Training
Canon	PC-25	-	Crystal River
Canon	PC-25	-	Farley
Canon	PC-25	-	Grand Gulf
Canon	PC-25	-	Harris
Canon	PC-25	-	Hatch
Canon	PC-25	-	McGuire
Canon	PC-25	-	North Anna
Canon	PC-25	-	Oconee
Canon	PC-25	-	Robinson
Canon	PC-25	-	Saint Lucie
Canon	PC-25	-	Sequoyah
Canon	PC-25	-	Summer
Canon	PC-25	-	Surry
Canon	PC-25	-	Turkey Point
Canon	PC-25	-	Vogtle
Canon	NP155	-	Watts Barr

c. U.S. Nuclear Regulatory Commission
Region III, Glen Ellyn, Illinois

VENDOR	MODEL	ACCESSORIES	LOCATION
Kodak	85	SORT	RIII Offices
Kodak	35	SORT	RIII Offices
Kodak	85	SORT	RIII Offices
Kodak	85	SORT	RIII Offices
Kodak	85	SORT	RIII Offices
Xerox	1045	RDH/FIN/KED	RIII Offices
Mita	DCIII	-	Big Rock Point
Mita	DCIII	-	Braidwood
Mita	DCIII	-	Byron
Mita	DCIII	-	Callaway
Mita	DCIII	-	Clinton
Mita	DCIII	-	D.C. Cook
Mita	DCIII	-	Davis-Besse
Mita	DCIII	-	Dresden
Mita	DCIII	-	Duane Arnold
Mita	DCIII	-	Fermi
Mita	DCIII	-	Kewaunee
Mita	DCIII	-	LaSalle
Mita	DCIII	-	Monticello
Mita	DCIII	-	Palisades
Mita	DCIII	-	Perry
Mita	DCIII	-	Point Beach
Mita	DCIII	-	Prairie Island
Mita	DCIII	-	Quad Cities
Mita	DCIII	-	Zion

d. U.S. Nuclear Regulatory Commission
Region IV, Arlington, Texas

VENDOR	MODEL	ACCESSORIES	LOCATION
Xerox	5046	ADF/SORT	RIV Offices
Xerox	5046	ADF/SORT	RIV Offices
Xerox	5046	ADF/SORT	RIV Offices
Xerox	5046	ADF/SORT	RIV Offices
Xerox	5046	ADF/SORT	RIV Offices
Canon	PC-25	-	Arkansas
Xerox	1050	RDH/FIN	Comanche
Canon	PC-25	-	Cooper
Canon	PC-25	-	Ft. Calhoun
Canon	PC-25	-	Ft. Saint Vrain
Canon	PC-25	-	River Bend
Xerox	1040	ADF/SORT	South Texas
Canon	4540	SORT	URFO Colorado
Canon	PC-25	-	Waterford
Canon	PC-25	-	Wolf Creek

e. U.S. Nuclear Regulatory Commission
Region V, Walnut Creek, California

VENDOR	MODEL	ACCESSORIES	LOCATION
Savin	7230	SORT	RV Offices
Savin	7230	SORT	RV Offices
Savin	7230	SORT	RV Offices
Xerox	2830	SORT	RV Offices
Xerox	1050	FIN	RV Offices
IBM	70	SORT	RV Offices
Mita	2055	SORT	Diablo
Mita	2055	SORT	Palo Verdi
Mita	2055	SORT	Rancho
Mita	2055	SORT	San Onofre
Mita	2055	SORT	Trojan
Mita	2055	SORT	WNP-2

f. U.S. Nuclear Regulatory Commission
Headquarters Offices, Washington, D.C.

VENDOR	MODEL	ACCESSORIES	LOCATION	OFF.
Xerox	1040	ADF/S/RE	P-130A	ACRS
Xerox	1040	ADF/S/RE	P-614	IRM
Xerox	1040	ADF/S/RE	WHSE	DCPM
Xerox	1040	ADF/S/RE	PENTHS	IRM
Xerox	1040	ADF/S/RE	WF 2B7	DCPM
Xerox	1040	ADF/S/RE	WF 17B9	OCM
Xerox	1050	ADH/F/RE	WF P1-32	IRM
Xerox	1065	RDH/F/C/RE	MN6707	ADM
Xerox	1065	RDH/F/C/RE	WO-421	OP
Xerox	1065	RDH/F/C/RE	NLN-300	RES
Xerox	1065	RDH/F/C/RE	WF 16B20	SECY
Xerox	1065	RDH/F/C/RE	EW-436	ASLBP
Xerox	1065	RDH/F/C/RE	MN3306	AEOD
Xerox	1075	KDH/F/D	WF 17F8	NRR
Xerox	1075	RDH/F/D/R	WF 7F6	NMSS
Xerox	1075	RDH/F/D/R	WF 6F6	NMSS
Xerox	2830	SORT	L VEGAS	NMSS
Xerox	2830	-	EW-509	LSS
Xerox	5028	ADI/S	F ST	GPA
Xerox	5028	ADF/S	WF 2D6	OCM
Xerox	5028	ADF/S	WF 18H15	OCM
Xerox	5028	ADF/S	WF 18F8	OCM
Xerox	5028	ADF/S	WF 18G7	OCM
Xerox	5028	ADF/S	WF 18E12	OCM
Xerox	5028	ADF/S	WF 2G14	GPA
Xerox	1090	RDH/F/C/RE	WF 14F6	NRR
Xerox	1090	RDH/F/C/RE	MN1060	OC
Xerox	1090	RDH/F/C/RE	WF 5F6	NMSS
Xerox	1090	RDH/F/C/RE	NL-018	RES
Xerox	5046	RDH/F/D/RE	P-720R	IRM
Xerox	5046	RDH/F/D/RE	MN8703	IRM
Xerox	5046	RDH/F/D/RE	OP CTR	AEOD

Headquarters (Continued)

VENDOR	MODEL	ACCESSORIES	LOCATION	OFF.
Xerox	5046	RDH/F/D/RE	MN4509	OC
Xerox	5046	RDH/F/D/RE	P-1000	DCPM
Xerox	5046	RDH/F/D/RE	MN2104	OP
Xerox	5046	RDH/F/D/RE	P-1030	DCPM
Xerox	5046	RDH/F/D/RE	WF P1-32	WFQCC
Xerox	5046	RDH/F/D/RE	P-841	DCPM
Xerox	5046	RDH/F/D/RE	MN7711	IRM
Xerox	5046	RDH/F/D/RE	WO-509	OP
Xerox	5052	RDH/F/D/RE	MNB8312	OIG
Xerox	5052	RDH/F/D/RE	MN4108	AEOD
Xerox	5052	RDH/F/D/RE	EW-524	ASLAP
Xerox	5052	RDH/F/D/RE	P-378	DFIPS
Xerox	5052	RDH/F/D/RE	P-1115	DCPM
Xerox	5052	RDH/F/D/RE	P-512	IRM
Xerox	5052	RDH/F/D/RE	WF 18A7	OCM
Xerox	5052	RDH/F/D/RE	WF 15P6	GC
Xerox	5052	RDH/F/D/RE	W-24	OP
Xerox	5052	RDH/F/D/RE	M-11718	OC
Xerox	5052	RDH/F/D/RE	MN9112	AEOD
Xerox	5052	RDH/F/D/RE	MN5713	DSEC
Kodak	100AF	ADF/F	P-327	ACRS
Kodak	100AF	ADF/F	WF 4F6	NMSS
Kodak	150AF	ADF/F	FORD	IRM
Kodak	200AF	ADF/F	WF 17G23	EDO
Kodak	200AF	ADF/F	WF 12F6	NRR
Kodak	200AF	ADF/F	WF 9F6	NRR
Kodak	200AF	ADF/F	WF 10F6	NRR
Kodak	200AF	ADF/F	WF 11F6	NRR
Kodak	200AF	ADF/F	NL-018	RES
Kodak	200F	ADF	WF 8F6	NRR
Kodak	225AF	ADF/F	WF P1-37	IRM
Kodak	235AF	ADF/F	WF 16F6	GC
Kodak	235AF	ADF/F	WF 15G15	GC
Kodak	235AF	ADF/F	WF 3F6	NMSS
Kodak	235AF	ADF/F	WF 13F6	NRR
Kodak	85	SORT	P-927	DCPM
Kodak	85	SORT	NL-272	RES
Kodak	85	SORT	NL-370	RES
Kodak	90	SORT/STAPL	P-211	DFIPS
Kodak	90	SORT/STAPL	PDR	SECY
Kodak	90	SORT/STAPL	P-433	ACRS
Kodak	90	SORT/STAPL	NLS-168	RES
Canon	NP120	-	PDR	SECY
Canon	NP210	-	WF 13H22	OP
Canon	NP210	-	NLN-368	RES
Oce	1725	ARC	N-160	IRM
Royal	1803	-	P-812	IRM
Royal	1803	-	P-006	PQCC
Royal	1803	-	P-006	PQCC
Royal	1803	-	EW-436	ASLBP
Royal	1803	ZMR	P-100	IRM

2. Staff Copy Centers

The following is a list of staffed Copy Centers in use within NRC keyed to the existing NRC location.

VENDOR	MODEL	LOCATION
Koda	250AF	Headquarters, Bethesda, Maryland
Xerox	9900	Headquarters, Bethesda, Maryland
Kodak	300AF	Headquarters, Rockville, Maryland
Kodak	250AF	Headquarters, Rockville, Maryland
Xerox	5090	Headquarters, Rockville, Maryland
Xerox	5090	Headquarters, Rockville, Maryland
Kodak	300AF	Region I Offices
XEROX	1090	Region II Offices
Kodak	225AF	Region III Offices
Kodak	225AF	Region IV Offices
Kodak	225AF	Region V Offices

3. Central Printing Plant

NRC has only one Central Printing Plant located at NRC Headquarters in Bethesda, Maryland. The following is a list of printing and bindery equipment in that location.

DESCRIPTION	MODEL
Mitsubishi Platemaker	CP40411
Multigraphics Platemaker	2400S
AM Offset Press	2850NW
Davidson Perfector Press	702
Binder, GBC	16DB
Binder, NSC	28H
Binder, Thermo Tape, Planax	380
Collator/Stitcher, A.B. Dick	7930
Collator, Pitney Bowes	HSR50
Drill, Challenge Paper	MS10A
Drill, Challenge 3 Spindle	EH3A
Folder, Baum	P1205
Folder, A.B. Dick	7905
Folder, Pitney Bowes	F1
Folder, Right Angle, Baum	3RA
Dial-A-Feed Table	1100A
Jogger, Challenge	2026A
Jogger, Pitney Bowes	1547
Jogger/Stitcher, Xerox	920
Jogger/Stitcher, Xerox	920
Master Converter	127
Paper Cutter, Challenge	MCPB
Paper Cutter, Triumph	4810A
Shrink Wrap, X-Rite	710
Stacker, A.B. Dick	7907
Stacker, Pitney Bowes	1547
Stitcher, Pitney Bowes	SS-1
Stitcher, Bostitch	7
Stitcher, Bostitch	7
Stitcher, Interlake	S3A
Stitcher, Bostitch	7

Printing and Bindery Equipment (Continued)

Tying Machine, Bunn	141-E
Tying Machine, Bunn	141-E
Tying Machine, Bunn	141-E

4. Electronic Publishing System

NRC has one electronic publishing system (KEEPS) located at NRC Headquarters in Bethesda, Maryland. The following is an itemized list of system components.

- KEEPS 1103/560 File Server with 1150 Layout Workstation
- 1106 Layout Workstation
- 1700 Tape Drive
- 1910 Modem
- 1320 Laser Printer with RIP
- 1308 Laser Printer with RIP
- SHARP Scanner
- USLYNX Converter with IBM PS2 Personal Computer - CPU and Screen
- IBM PS2 Personal Computer - CPU and Screen
- 4 KEEPS 1250 Text Edit Terminals

B. Printing Activities Review

NRC has participated in the Federal Printing Program since its inception in the mid-1970s. NRC's policy has been to use private sector printing firms through the Government Printing Office to the extent allowed by mission requirements or by direct procurement in accordance with the Government Printing and Binding Regulations.

The following table will illustrate that more than 87 percent of NRC's printing requirements are obtained from private sector printers through GPO.

Comparison of In-House and Private Sector Printing
FY 1985 - FY 1990

	IN-HOUSE UNITS/\$	PRIVATE SECTOR* UNITS/\$	TOTAL UNITS/\$
FY 85	11.5M/\$212K	89.4M/\$1.43M	100.9M/\$1.64M
FY 86	10.7M/\$206K	76.5M/\$1.29M	87.2M/\$1.5M
FY 87	12.7M/\$214K	75.1M/\$1.27M	87.8M/\$1.48M
FY 88	10.5M/\$167K	74.0M/\$1.26M	84.5M/\$1.43M
FY 89	12.4M/\$203K	87.9M/\$1.74M	100.3M/\$1.94M
FY 90	11.4M/\$211K	71.7M/\$1.37M	83.1M/\$1.58M

Note: Reduction in units can be attributed to increase in composed pages (compaction) from NRC's electronic publishing system.

* Through GPO programs.

The volume of production both in NRC and through GPO is anticipated to increase during the next three fiscal years. Although the number of new licensing applications has decreased, the nature of the licensing process requires the publication of licensing amendments for both individual and generic power plants. Further, many operating plants will be reaching license renewal in the next few years which will increase printing requirements. In addition, the number of contractor and national laboratory reports printed by NRC is increasing. NRC has assumed responsibility for printing most national laboratory reports prepared for NRC.

Part III - Projected Production Activities

A. Printing Environment Production

1. In-House Printing Production

NRC's central printing plant produces short-run, quick-turn-around services for the day-to-day management of agency activities. Typical types of work performed in-house include the following:

TYPE OF PUBLICATION	AVG # PAGES	# OF COPIES PER ISSUE	# OF ISSUES PER YEAR	EST COST PER YEAR
Daily Press Releases	2	526	260	\$20.5K
Weekly Press Releases	4	1450	52	\$11.3K
Generic Letters to Licensees	8	1300	14	\$2.7K
Change Notices to Licensees	24	500	8	\$1.0K
EDO's Weekly Info Report	4	400	52	\$3.3K
Reg Guides (Draft & Final)	10	500	12	\$1.2K
Management Directives	10	500	48	\$3.7K
Personnel Information	16	1575	46	\$3.7K
Staff Announcements	1	500	36	\$2.9K
Info Notices to Licensees	6	2600	144	\$62.7K
NRC Rulemaking Activities	6	850	100	\$15.2K

The equipment used for in-house printing falls within the guidelines set forth in Title II, Equipment of the Government Printing and Binding Regulations.

See Table 1 at the end of this section for in-house printing cost and production projections through FY 1993.

2. In-House Copying Production

As outlined in Part II; A.1. and A.2., NRC has 7 manned copy centers, 117 self-service copiers at various NRC office locations and 78 table-top copiers at resident inspector offices at power plant sites.

See Table 2 at the end of this section for in-house copying cost and production projections through FY 1993.

3. Contracted Printing (GPO) Production

Private sector printing firms, contracted through GPO, are used to meet most of NRC's printing requirements. Products obtained through GPO contractors usually have longer lead-times,

larger distribution requirements, or multi-color illustrations, halftones, foldouts, and more detailed printing work. In addition, all NRC formal staff and contractor reports are printed by outside printing plants. Typical types of work contracted out are:

TYPE OF PUBLICATION	AVG # JOBS		AVG COST	
	ANNUALLY		ANNUALLY	
A. NUREGS (formal reports)				
1. New/Revisions	420	/	\$407.5K	
2. Reprints	28	/	\$ 30.0K	
B. MANAGEMENT DIRECTIVES				
1. New/Revisions	16	/	\$ 6.8K	
2. Reprints	1	/	\$ 0.4K	
C. REG GUIDES				
1. New/Revisions (Finals)	15	/	\$ 3.0K	
2. New/Revisions (Drafts)	3	/	\$ 0.1K	
3. Reprints (Drafts)	16	/	\$ 5.2K	
D. FORMS	106	/	\$108.0K	
E. WEEKLY INFORMATION REPORT	48	/	\$ 10.7K	
F. RULEMAKINGS	19	/	\$ 11.3K	

See Table 3 at the end of this section for contracted printing costs and production projections through FY 1993.

4. Composition (KEEPS) Activities

In FY 1988, NRC acquired an electronic publishing system (KEEPS). Until that time, all work requiring composition was contracted out to the private sector through GPO programs. The KEEPS system became operational in May 1989 following installation, testing, and staff training. KEEPS was used to compose camera-ready copy from text that was transmitted electronically from NRC's IBM 5520 word processing equipment and from IBM personal computers with WordPerfect 5.0 software.

During the first eight months of operation (May to December 1989), NRC composed 8,847 initial pages of camera-ready copy on the KEEPS. Total printed units reproduced from the camera copy was 4.2M. The average cost of printing those pages was \$11.56 per one thousand pages.

Savings achieved during this initial period of operation were reported to JCP on February 13, 1990, as \$27,425 in composition costs and \$20,801 in printing costs from data compaction.

A letter from Wendall H. Ford, Chairman, JCP, to Kenneth M. Carr, Chairman, NRC, dated April 4, 1990, requested additional savings and operational information from NRC, which follows:

After an entire year of operation, the NRC was able to compose 98 documents equalling 15K pages of camera-ready copy; 5.4K of those pages were used as camera-ready copy for 34 formal NRC reports that were printed through GPO.

FY 1990 itemized KEEPS costs follow:

Total Salaries (including supervisory, overtime, and personnel benefits)	\$69.2K
Cost of Supplies	\$ 0.21K
Equipment Depreciation	\$26.6K
Maintenance and Support	\$45.0K
<u>Allowance for Space</u>	<u>\$ 0.722K</u>
Total Costs	\$141,732K

In FY 1990, per-page cost to produce a composed copy on KEEPS was \$9.45. Comparing the cost of composition on NRC's KEEPS system at \$9.45 per page to the average cost of \$15.00 per page through GPO composition contractors, NRC realized a savings of \$30K in composition costs. Savings in printing costs through data compaction were \$15.4K.

See Table 4 at the end of this section for composition costs and production projections through FY 1993.

Although NRC recognized a \$45.4K savings by using the KEEPS in FY 1990, specific problems with the system reduced anticipated productivity. Specific problems follow:

- Because of the complexity of the system, it has taken longer to train operators than originally expected. Although both of NRC's KEEPS operators are productive, they are still learning new features of the system almost daily. Another operator will be hired in FY 1991. That new operator will require an extended training period and is not expected to be maximally productive until FY 1993.

- NRC is not satisfied with the quality of the Sharp scanner attached to the KEEPS. It takes too much of the system's memory to scan text and the scanner works well only with a high-quality original when tables and charts must be "read."
- Finally, the conversion filter that translates IBM 5520 and WordPerfect 5.0 text into the KEEPS is not working efficiently. Every word converted must be proofread to correct or delete wrong or extra characters. At this point, neither NRC or Eastman Kodak has been able to attribute the problem to equipment hardware, system software, or operator error. But the extra step of proofreading converted data slows productivity.

B. Newly Acquired Equipment - FY 1990

NRC acquired the following equipment in FY 1990:

- 2 Xerox 5090 duplicators to replace a Xerox 9400 and Xerox 9500 in the Rockville, Maryland, Copy Center (\$224,500)
- Upgrade of a KEEPS 1104 layout workstation to an 1106 layout workstation to increase memory to 8MB of RAM (\$8,330)
- 5 Xerox 5028 Zoom copiers with sorters and 3 years of free maintenance for each. These copiers replaced Royal 1803 models in the offices of the Chairman and Commissioners of NRC (\$24,240)
- Mitsubishi CP-404II Platemaker to replace the 3M MR-417 Camera Processor. The EMF System 6000 (4 station) Collator was also traded in (\$14,975)
- A Brackett Padmaster to use in the Print Shop in Bethesda, Maryland (\$5,128)
- A model N3B Interlake/Acme Stitcher for use in the Rockville, Maryland, Copy Center (\$11,787)
- A Klinge Products model HPV 8B high-lifting mobile workstation for the Bethesda, Maryland, Print Shop (\$3,200)

U.S. NUCLEAR REGULATORY COMMISSION
 OFFICE OF ADMINISTRATION, DFIPS
 PRINTING AND AUDIOVISUAL SERVICES BRANCH

TABLE 1. IN-HOUSE PRINTING COST AND PRODUCTION PROJECTIONS

PRINT SITE	PAST	CURRENT	PLAN	OUTYEARS	
	FY 89	FY 90	FY 91	FY 92	FY 93
NRC Bethesda, MD	\$203 12.4U	\$211 11.4U	\$221.5 10.5U	\$232.6 11U	\$244.3 11.5U

\$ = Dollars in thousands

U = Units in millions

NOTE: Increase in cost expected because of cost increases in equipment maintenance, supplies, space, etc.

Decrease in units produced until FY 91 because KEEPS productivity should keep compacting camera copy as it becomes fully operational.

U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF ADMINISTRATION, DFIPS
PRINTING AND AUDIOVISUAL SERVICES BRANCH

TABLE 2. IN-HOUSE COPYING COST AND PRODUCTION PROJECTIONS

COPIER SITES/TYPE	PAST		CURRENT		PLAN		OUTYEARS			
	FY 89		FY 90		FY 91		FY 92		FY 93	
	\$	U	\$	U	\$	U	\$	U	\$	U
1. NRC Headquarters										
a. Copy Centers	301.9	43.2	274.0	40.0	287.7	42.0	302.1	44.1	317.2	46.3
b. Satellite Copiers	516.4	28.8	531.0	30.0	557.6	31.5	585.5	33.1	614.8	34.7
2. Region 1 Offices										
a. Staffed Duplicator	50.1	3.5	51.0	4.0	53.6	4.2	56.3	4.4	59.1	4.6
b. Satellite Copiers	35.6	1.5	37.4	1.6	39.2	1.7	41.2	1.8	43.3	1.8
c. Table-Top Copiers	0.9	0.22	0.95	0.23	0.99	0.24	1.0	0.25	1.1	0.26
3. Region 2 Offices										
a. Staffed Duplicator	33.7	2.2	35.4	2.3	37.2	2.4	39.1	2.5	40.1	2.6
b. Satellite Copiers	37.1	1.8	40.0	1.9	40.1	2.0	43.0	2.1	45.1	2.2
c. Table-Top Copiers	1.5	0.36	1.6	0.38	1.7	0.40	1.8	0.42	1.9	0.44
4. Region 3 Offices										
a. Staffed Duplicator	26.6	2.3	22.0	1.0	23.1	1.1	24.3	1.1	25.5	1.2
b. Satellite Copiers	28.7	1.8	30.1	1.9	31.7	2.0	33.2	2.1	34.9	2.2
c. Table-Top Copiers	6.6	0.15	6.9	0.16	7.3	0.17	7.6	0.18	8.0	0.19
5. Region 4 Offices										
a. Staffed Duplicator	20.2	1.1	23.1	1.4	24.3	1.5	25.5	1.5	26.7	1.6
b. Satellite Copiers	22.8	0.9	23.9	0.95	25.1	1.0	26.4	1.1	27.7	1.1
c. Table-Top Copiers	18.8	0.51	19.7	0.54	20.7	0.57	21.8	0.6	22.9	0.63
6. Region 5 Offices										
a. Staffed Duplicator	19.0	0.86	23.8	0.83	25.0	0.87	26.0	0.91	27.6	1.0
b. Satellite Copiers	35.4	0.65	37.2	0.68	39.0	0.71	41.0	0.75	42.0	0.8
c. Table-Top Copiers	1.9	0.36	2.0	0.38	2.1	0.4	2.2	0.42	2.3	0.43

\$ = Dollars in thousands

U = Units in millions

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TABLE 3. CONTRACTED PRINTING (GPO) PRODUCTION AND COST PROJECTIONS

	PAST		CURRENT		PLAN		OUTYEARS			
	FY 89		FY 90		FY 91		FY 92		FY 93	
	\$	U	\$	U	\$	U	\$	U	\$	U
GPO Printing	1.7	88.3	1.3	65.9	1.29	65.0	1.4	68.3	1.5	71.7

\$ = Dollars in millions

U = Units in millions

NOTE: Decrease in units produced and printing costs until FY 91 because KEEPS productivity should keep compacting camera-copy as it becomes fully operational.

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TABLE 4. ELECTRONIC PUBLISHING SYSTEM PRODUCTION AND COST PROJECTIONS

LOCATION	PAST		CURRENT		PLAN		OUTYEARS			
	FY 89		FY 90		FY 91		FY 92		FY 93	
	\$	C	\$	C	\$	C	\$	C	\$	C
KEEPS, Bethesda, MD	-	8.8	\$141.7	15K	\$186.2	30K	\$204.8	40K	\$225.3	50K

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C = Camera copy (in thousands)
 \$ = Dollars in thousands

C. PROPOSED ACQUISITION OF NEW EQUIPMENT

Printing and Publishing Activity
 New Equipment Justification
 Fiscal Year
 1991

Facility Name: U.S. NRC Electronic Publishing System (KEEPS)

Address: Bethesda, Maryland

Equipment Type (Generic Description)	Application	Cost (Identify Annual Lease Or Purchase)	Justification
Upgrade of KEEPS 3.0 Software to 4.0	Used with the NRC's electronic publishing system	\$40,000 Purchase	NRC plans to enhance the current KEEPS by upgrading the software to be compatible with NRC's graphics Interleaf system. Cost listed will upgrade the KEEPS, including software, installation, and training costs.

Printing and Publishing Activity
 New Equipment Justification
 Fiscal Year
 1991

Facility Name: U.S. NRC Copy Center

Address: Rockville, Maryland

Equipment Type (Generic Description)	Application	Cost (Identify Annual Lease Or Purchase)	Justification
Canon Color Copier (500 system) or equivalent	Reproducing full- color copies to meet agency needs	\$50,000 Purchase	<p>NRC needs color copies for such applications as color charts and graphs, color maps, photographs, and transparencies, and to give it the ability to enhance visuals that are used in the Commissioners' Hearing Rooms by converting black and white charts and graphs to color. NRC procures approximately 2000 color copies per month from outside sources. The cost per copy can be as high as \$12.00 per transparency or \$3.00 per 8-1/2 x 11 inch paper copy for an outside source to produce and deliver to us. The color copier alternative that we select will produce the same job for 48¢ per copy.</p> <p>Equipment will be located in the controlled Copy Center environment.</p>

Printing and Publishing Activity
 New Equipment Justification
 Fiscal Year
 1992

Facility Name: U.S. NRC Printing Plant

Address: Bethesda, Maryland

Equipment Type (Generic Description)	Application	Cost (Identify Annual Lease Or Purchase)	Justification
24 Station Collator - able to handle 11 x 17 inch stock - able to saddle stitch, fold, and trim on 3 sides	Replacement for existing equipment which is in poor condition	\$45,000 Purchase	NRC's printing facility has been using a Pitney Bowes HSR 50 Station Collator that is 11 years old and is in poor condition. This equipment is used on a daily basis in the bindery to saddle stitch urgent press releases and safety bulletins.

Printing and Publishing Activity
 New Equipment Justification
 Fiscal Year
 1992

Facility Name: U.S. NRC Printing Plant

Address: Bethesda, Maryland

Equipment Type (Generic Description)	Application	Cost (Identify Annual Lease Or Purchase)	Justification
Xerox 3080 Engineering Copier/ Printer	Produce duplicate copies of large drawings, blue- prints, plant schematics, etc.	\$50,000 Purchase	Replace and upgrade existing Xerox 2510 Engineering Copier. The new copier/printer will allow us to use various stocks and film. The 3080 is much faster than the 2510 and will reduce turnaround time and increase productivity. The 3080 also allows making deletions and corrections during the production phase prior to delivery of the final product.

Printing and Publishing Activity
 New Equipment Justification
 Fiscal Year
 1992/1993

Facility Name: U.S. NRC Printing Plant

Address: Bethesda, Maryland

Equipment Type (Generic Description)	Application	Cost (Identify Annual Lease Or Purchase)	Justification
Kodak 1392 On-Demand Printer or equivalent	Upgrade of current KEEPS publishing system to allow on demand printing	\$225,000 Purchase (each)	<p>Two high-quality on-demand printers hardwired to the KEEPS will:</p> <ol style="list-style-type: none"> 1) Reduce the need to keep hard copy documents in inventory, thus eliminating storage costs. 2) Reduce the size of distribution lists by filling requests "on-demand." 3) Permit NRC to make timely and less costly revisions to documents. <p>Documents produced on the KEEPS can be archived for future query, for revision, or for communication to NRC staff.</p> <p>NRC will trade in KE250AF and KE300AF from Copy Center.</p>

Printing and Publishing Activity
 New Equipment Justification
 Fiscal Year
 1993

Facility Name: U.S. NRC Printing Plant

Address: Bethesda, Maryland

Equipment Type (Generic Description)	Application	Cost (Identify Annual Lease Or Purchase)	Justification
4 Unit Perfecting Press - able to print 4 pages (8-1/2 x 11) per run through the machine - able to accept 17-inch rolls or 11 x 17 inch sheet fed paper - able to run 9200 pages per hour	Produces necessary in-house duplicating for programmatic and administrative needs	\$50,000 Purchase	4 Unit Perfecting Press is necessary to maintain current capabilities of NRC Davidson 702P Press which is 10 years old and will be traded in. Costs will be offset in reduced maintenance and downtime and increased equipment capabilities.

Printing and Publishing Activity
 New Equipment Justification
 Fiscal Year
 1993

Facility Name: U.S. NRC Copy Center

Address: Rockville, Maryland

Equipment Type (Generic Description)	Application	Cost (Identify Annual Lease Or Purchase)	Justification
Xerox 5090 Duplicator	Produces necessary in-house duplicating	\$140,000 Purchase	In response to projected increasing volume caused by power plant relicensing and decommissioning, and presumed new applications, we will need a third 5090 copier. We will trade in our 9-year-old Kodak 250AF duplicator. The new technology that the 5090 utilizes can vastly increase productivity and enable us to meet all copying needs of the agency.

November 9, 1990

The Honorable Wendell H. Ford
Chairman, Joint Committee on Printing
Congress of the United States
Washington, D.C. 20510-6650

Dear Mr. Chairman:

Enclosed is the Comprehensive Printing Program Plan for the Nuclear Regulatory Commission. As you suggested in your April 4, 1990 letter, I have also included a narrative report on activities of the agency's electronic publishing system. The report of our electronic publishing system cites application successes, problems, and actual cost savings achieved in FY 1990. The Comprehensive Printing Program Plan includes printing activities anticipated for fiscal year 1991, and projections for fiscal years 1992 and 1993, where applicable.

I trust that the enclosed report responds to the Committee's request. If members of the Committee staff have any further questions on this matter, please contact me by telephone on 301-492-7211.

Sincerely,

/s/

Donnie H. Grimsley
Central Printing and Publications Manager
Office of Administration

Enclosure:
As stated:

Distribution:

PAVSB-RF	LSCHNEIDER	ADM r/f	JBLAHA
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*See previous concurrence

PAVSB:FIPS*	C:PAVSB:FIPS*	DFIPS:ADM*	D:DFIPS:ADM
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CONGRESSIONAL CORRESPONDENCE SYSTEM
DOCUMENT PREPARATION CHECKLIST

This checklist is to be submitted with each document (or group of Qs/As) sent for filing into the CCS.

1. BRIEF DESCRIPTION OF DOCUMENT(S) LTR TO Wendell Ford
2. TYPE OF DOCUMENT Correspondence Hearings (Qs/As)
3. DOCUMENT CONTROL Sensitive (NRC Only) Non-Sensitive
4. CONGRESSIONAL COMMITTEE and SUBCOMMITTEES (if applicable)

_____ Congressional Committee
_____ Subcommittee

5. SUBJECT CODES

- (a) _____
(b) _____
(c) _____

6. SOURCE OF DOCUMENTS

- (a) _____ 5520 (document name _____)
- (b) Scan (c) Attachments
- (d) _____ Rekey (e) _____ Other _____

7. SYSTEM LOG DATES

- (a) 12/11/90 Date OCA sent document to CCS
- (b) _____ Date CCS receives document
- (c) _____ Date returned to OCA for additional information
- (d) _____ Date resubmitted by OCA to CCS
- (e) _____ Date entered into CCS by _____
- (f) _____ Date OCA notified that document is in CCS

8. COMMENTS

