



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

AE49-1
PDR

JAN 29 1993

1993 FEB -1 AM 11:09

009

MEMORANDUM FOR: Jesse L. Funches
Deputy Controller
Office of the Controller

FROM: Lloyd J. Donnelly, Director
Financial Management, Procurement and
Administration Staff
Office of Nuclear Regulatory Research

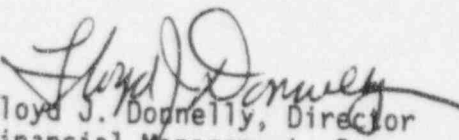
SUBJECT: FY 1993 BUDGET - 100 PERCENT FEE RECOVERY

References: Funches Memoranda dated 1/15/93 and 1/22/93

As requested in your referenced memoranda, enclosed is Part 171 License Fee Recovery information for the FY 1993 budget for the Nuclear Safety Research and Nuclear Materials Research programs.

In anticipation of your further request, also enclosed is the License Fee information for the Low Level Waste Research and High Level Waste Research areas.

If you have any questions, have your staff contact Norma Price on x23626.


Lloyd J. Donnelly, Director
Financial Management, Procurement and
Administration Staff, RES

Enclosures:
As stated

January 28, 1993

OFFICE OF NUCLEAR REGULATORY RESEARCH
Nuclear Safety Research (NSR) Program

PART 171 WORK BY RES

	<u>FY93</u>	
	<u>Program</u>	<u>Direct</u>
	<u>Value</u>	<u>FTE</u>
<u>Generic Efforts - All Plants</u>		
Pressure Vessel Safety	150	0
Aging of Reactor Components	4,893	3.2
Engineering Standards Support	800	1.6
Structural Integrity	634	0.3
License Renewal Regulatory Standards	90	0.1
Reactor Safety Experiments	150	0.2
Personnel Performance	760	2.1
Human-System Interface	2,080	1.0
Organizational Factors	310	0.0
Data Acquisition & Management Systems	305	0.7
HRA/PRA Methods & Applications	1,395	1.7
Reactor Risk Analysis	4,050	4.2
Reactor Containment Structural Integrity	850	1.5
Severe Accident Implementation	1,500	4.2
Plant Response to Seismic & Other External Events	200	0.4
Generic Safety Issue Resolution	1,482	8.6
Reactor Regulatory Standards	500	5.1
Reactor Radiation Protection & Health Effects	1,340	4.1
Research Educational Grants	1,017	0
SBIR Program	1,354	0
	-----	-----
TOTAL GENERIC EFFORTS - ALL PLANTS	23,860	39.0

Generic (PWRs & BWRs Only)

Pressure Vessel Safety	8,666	3.7
Piping Integrity	2,420	0.9
Inspection Procedures and Techniques	1,650	0.7
Aging of Reactor Components	1,000	0.6
Engineering Standards Support	550	1.1
License Renewal Regulatory Standards	390	0.9
Safety Code Development and Maintenance	405	0.4
Operating Reactor Assessments	1,100	0.9
Personnel Performance	50	0.1
Human-System Interface	500	0.2
Data Acquisition & Management Systems	500	1.1
HRA/PRA Methods & Applications	250	0.3
Reactor Risk Analysis	2,000	2.1
Accident Management	650	3.2
Containment Performance	4,302	2.8
Severe Accident Phenomenology	4,525	2.8
Severe Accident Implementation	625	1.8
Generic Safety Issue Resolution	2,068	12.0
Reactor Radiation Protection & Health Effects	200	0.6
Research Educational Grants	99	0
	-----	-----
TOTAL GENERIC (PWRs AND BWRs ONLY)	31,950	36.2

Generic (PWRs Only)

Reactor Safety Experiments	344	0.6
Safety Code Development and Maintenance	251	0.3
Operating Reactor Assessments	100	0.1
Accident Management	150	0.8
Containment Performance	1,350	0.9
Generic Safety Issue Resolution	400	2.3
	-----	-----
TOTAL GENERIC (PWRs ONLY)	2,595	5.0

Generic (BWRs Only)

Safety Code Development and Maintenance	300	0.3
Containment Performance	500	0.3
Research Educational Grants	49	0
	-----	-----
TOTAL GENERIC (BWRs ONLY)	849	0.6

NMSS (PWRs Only)

Piping Integrity	50	0.1
Inspection Procedures and Techniques	200	0.1
Reactor Safety Experiments	150	0.2
Generic Safety Issue Resolution	200	1.2
	-----	-----
TOTAL NMSS (PWRs ONLY)	600	1.6

PWRs (WESTINGHOUSE) LARGE DRY CONTAINMENTS ONLY

Reactor Risk Analysis	300	0.3
-----------------------	-----	-----

PWRs (COMBUSTION ENGINEERING) LARGE DRY CONTAINMENTS ONLY

Reactor Risk Analysis	600	0.6
-----------------------	-----	-----

NSSS BWRs ONLY (GE)

Severe Accident Phenomenology	400	0.2
-------------------------------	-----	-----

BWRs MARK III CONTAINMENTS

Reactor Risk Analysis	300	0.3
-----------------------	-----	-----

SEISMIC (ALL)

Earth Sciences	1,650	2.2
Plant Response to Seismic & Other External Events	700	1.7
Research Educational Grants	31	0
	-----	-----
TOTAL SEISMIC (ALL)	2,381	3.9

SEISMIC (EAST OF THE ROCKIES)

Earth Sciences	250	0.3
Research Educational Grants	50	0
	-----	-----
TOTAL SEISMIC (EAST OF THE ROCKIES)	300	0.3

Advanced Reactors

Engineering Issues For Advanced Reactor Designs	6,550	5.0
Systems Performance of Advanced LWR's	10,400	8.0
Systems Performance of Advanced Non-LWR's	1,450	4.0
Advanced Reactor Risk Analysis	200	3.6
Advanced Reactor Safety Issues	0	0
Regulatory Application of New Source Terms	800	4.0
Advanced Reactor Regulatory Standards	800	5.0
	-----	-----
TOTAL ADVANCED REACTORS	20,200	29.6

Russian Reactors

US-CIS Cooperative Agreement	1,500	0.1
	-----	-----
<u>GRAND TOTAL - NUCLEAR SAFETY RESEARCH</u>	85,835	117.7

January 28, 1993

OFFICE OF NUCLEAR REGULATORY RESEARCH
NUCLEAR MATERIALS RESEARCH

PART 171 WORK BY RES

	<u>FY93</u>	
	<u>Program Value</u>	<u>Direct FTE</u>
<u>Materials</u>		
Materials Licensee Performance	550	0.4
Materials Regulatory Standards	1,000	12.1
Materials Radiation Protection & Health Effects	1,640	5.3
	-----	-----
TOTAL MATERIALS	3,190	17.8

January 28, 1993

OFFICE OF NUCLEAR REGULATORY RESEARCH
LOW LEVEL WASTE RESEARCH

PART 171 WORK BY RES

	<u>FY93</u>	
	<u>Program Value</u>	<u>Direct FTE</u>
<u>Non-Applicable - Low Level Waste</u>		
Materials and Engineering	1,100	2.5
Hydrology & Geochemistry	1,300	2.3
Compliance Assessment & Modeling	1,300	1.5
Low Level Waste Regulatory Standards	0	1.2
	-----	-----
TOTAL NON-APPLICABLE - LOW LEVEL WASTE	3,700	7.5
<u>Fuel Facility</u>		
Environmental Policy & Decommissioning	100	0.4
<u>Materials</u>		
Environmental Policy & Decommissioning	1,825	8.6
	=====	=====
<u>GRAND TOTAL - LOW LEVEL WASTE RESEARCH</u>	5.625	16.5

January 28, 1993

OFFICE OF NUCLEAR REGULATORY RESEARCH
HIGH LEVEL WASTE RESEARCH

PART 171 WORK BY RES

FY93

<u>Program</u>	<u>Direct</u>
<u>Value</u>	<u>FTE</u>

Non-Applicable - High Level Waste Research

Engineered Systems Research	1,600	2.1
Geologic Systems Research	2,400	2.0
Performance Assessment Research	1,700	2.0
Support of Rulemaking	0	1.0
	-----	-----
<u>GRAND TOTAL - HIGH LEVEL WASTE RESEARCH</u>	5,700	7.1