FY 2019
FINAL
FEE RULE
WORK PAPERS

FY 2019
Final Fee Rule
Work Papers

The supporting information to the FY 2019 Final Fee Rule is contained in the following work papers. The items identified in the Table of Contents are located behind a corresponding Tab. At the beginning of each Tab is a cross reference, if appropriate, to the location of the subject matter and Tables found within the Final Fee Rule Document. For example, a reference to "**Section II.**" is the supporting information for: **Section II.** FY 2019 Fee Collection **A.** Amendments to 10 CFR Part 170 **1.** Professional Hourly Rate.

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Budget and Fee Recovery

Section II

Table I

The NRC's total budget authority for FY 2019 is $911.0 million. The Excluded fee items include $10.3 million for advanced reactor infrastructure, $16.1 million for international activities, $1.3 million for WIR activities, $1.1 million for IG services for the Defense Nuclear Facilities Safety Board, and $14.6 million for generic homeland security activities. Based on the 90 percent fee-recovery requirement, the NRC will have to recover approximately $781.9 million in FY 2019 through Part 170 licensing and inspection fees and Part 171 annual fees. The amount required by law to be recovered through fees for FY 2019 would be $7.4 million less than the amount estimated for recovery in FY 2018, a decrease of 0.9 percent.

The FY 2019 fee recovery amount is increased by $1.7 million to account for billing adjustments (i.e., for FY 2019 invoices that the NRC estimates will not be paid during the fiscal year, less payments received in FY 2019 for prior year invoices). This leaves approximately $782. million to be billed as fees in FY 2019 through Part 170 licensing and inspection fees and Part 171 annual fees.

The NRC estimates that $252.1 million would be recovered from Part 170 fees in FY 2019. This represents a decrease of $28.7 million or approximately 10.2 percent as compared to the estimated Part 170 collections of $280.8 million for FY 2018. The remaining $530.5 million would be recovered through the Part 171 annual fees in FY 2019, which is an increase of $22.0 million when compared to estimated Part 171 collections of $508.5 million for FY 2018.

See Tab "Budget Authority (FY 2019)" for supplemental information on the distribution of budgeted FTE and contract dollars.

Budget and Fee Recovery
FY 2019
($ in Millions)
(Individual dollar amounts may not add to totals due to rounding)

	FY 2019
NRC Budget Authority	$911.0
Less Excluded Fee Items	-$43.4
Balance	$867.6
Fee Recovery Rate for FY 2018	x .90
Total Amount to be Recovered For FY 2018	$780.8
USAID Rescission	$0.0
Amount to be Recovered Through Fees and Other Receipts	$780.8
Estimated amount to be recovered through Part 170 fees and other receipts	-$252.1
Estimated amount to be recovered through Part 171 annual fees	$528.8
Part 171 billing adjustments	$1.7
Adjusted Part 171 annual fee collections required	$530.5

Part 170 Fees

Section II.A

Part 170 Fees

Determination of Professional Hourly Rate

Section II.A.1

Table II

Final Professional Hourly Rate is $278

The NRC's professional hourly rate is derived by adding budgeted resources for (1) mission-direct program salaries and benefits; (2) mission indirect-program support; and (3) agency support (corporate support and the Inspector General (IG), then subtracting certain offsetting receipts and then dividing this total by mission direct full-time equivalents (FTE) converted to hours. The only budgeted resources excluded from the professional hourly rate are those for mission-direct contract activities.

The NRC has reviewed and analyzed actual time and labor data in the NRC's Human Resource Management System for the most recent completed fiscal year (FY 2018) to determine if the annual direct hours worked per direct FTE estimate requires updating for the FY 2019 fee rule. Based on this review using actual time and labor data, the NRC determined that 1,510 hours is the best estimate of direct hours worked annually per direct FTE. This estimate excludes all non-direct activities, such as annual leave, sick leave, holidays, training, and general administration tasks.

Definitions of Professional Hourly Rate Components

Mission-Direct Program Salaries and Benefits:

These resources are allocated to perform core work activities committed to fulfilling the agency's mission of protecting public health and safety, promoting the common defense and security, and protecting the environment. These resources include the majority of the resources assigned under the direct business lines (Operating Reactors, New Reactors, Fuel Facilities, Nuclear Materials Users, Decommissioning and Low-Level Waste, and Spent fuel Storage and Transportation) are core work activities considered mission-direct.

Mission-Indirect Program Support:

These resources support the core mission-direct activities. These resources include for example, supervisory and nonsupervisory support, and mission travel and training. Supervisory and nonsupervisory support, and mission travel and training resources assigned under direct business line structure, are considered mission-indirect due to their supporting role of the core mission activities.

Agency Support (Corporate Support and the IG):

These resources are located in executive, administrative, and other support offices such as the Office of the Commission, the Office of the Secretary, the Office of the Executive Director for Operations, the Offices of Congressional and Public Affairs, the Office of the Inspector General, the Office of Administration, the Office of the Chief Financial Officer, the Office of the Chief Information Officer, the Office of the Chief Human Capital Officer and the Office of Small Business and Civil Rights. These resources administer the corporate or shared efforts that more broadly support the activities of the agency. These resources also include information technology services, human capital services, financial management and administrative support.

Offsetting Receipts:

The fees collected by the NRC for the Freedom of Information Act (FOIA) and Indemnity (financial protection required of licensees for public liability claims of 10 CFR Part 140) are subtracted from the budgeted resources amount when calculating the 10 CFR Part 170 professional hourly rate per the guidance in OMB Circular A-25 "User Charges." The budgeted resources for FOIA activities are allocated under the product for information services within the Corporate Support business line. The indemnity activities are allocated under the licensing actions and the Research and Test Reactors products within the Operating Reactors business line.

Estimated Annual Mission Direct FTE Productive hours:

Also referred to as the productive hours assumption, reflects the average number of hours that a mission-direct employee spends on mission-direct work in a given year. This excludes hours charged to annual leave, sick leave, holidays, training and general administration tasks. The productive hours assumption is calculated using actual time and labor data in HRMS (minus support and supervisory staff).

$$\frac{\text{Total hours in mission business lines}}{\text{Total hours in mission business lines + "Other Hours"}} \times \text{Total work hours in a year (2,087)} = \text{Productive Hours Assumption}$$

$$\frac{2{,}478{,}954}{3{,}422{,}244} \times \text{Total work hours in a year (2,087)} = 1{,}510$$

- 2,087 hours is used to be consistent with OPM guidance and the Consolidated Omnibus Budget Reconciliation Act of 1985 when determining pay
- The primary increase in productivity assumption is attributed mainly by the decline in direct staff hours for general administration and training attendance.

DETERMINATION OF PROFESSIONAL HOURLY RATE
CALCULATION OF FTE RATES BY PROGRAM

This is for the purpose of converting FTE to $. PROGRAM		(1) Total FTE	(2) Total S&B($,K):	(2)/(1) FTE Rate ($)
NUCLEAR REACTOR SAFETY		1,863	343,968	184,631
	General Fund	56	10,402	185,757
NUCLEAR MATERIAL SAFETY	(Less Excl.Fee Items & General Fund)	464	86,324	186,043
	Excl. Fee Items & General Fund	51	9,438	185,049
CORPORATE SUPPORT		609	109,404	179,645
	Excl. Fee Items & General Fund	-	-	-
INSPECTOR GENERAL		58	10,092	174,000
	TOTAL	3,101	569,628	

MISSION DIRECT RESOURCES

(in actual $)	nonlabor	labor
NUCLEAR REACTOR SAFETY	$94,120,000	$265,499,723
NUCLEAR MATERIALS AND WASTE SAFETY	$13,693,000	$69,208,034
CORPORATE SUPPORT: FELLOWSHIPS/SCHOLARSHIPS	$0	$0
TOTAL	$107,813,000	$334,707,758

PROGRAM SUPPORT (or MISSION INDIRECT) RESOURCES

(in actual $)	nonlabor	labor
NUCLEAR REACTOR SAFETY (BUDGET PROGRAM)	$19,803,000	$78,468,277
NUCLEAR MATERIALS AND WASTE SAFETY (BUDGET PROGRAM)	$5,228,000	$17,115,966
TOTAL	$25,031,000	$95,584,242

AGENCY SUPPORT (or CORPORATE SUPPORT & IG) RESOURCES

(in actual $)	nonlabor	labor
TOTAL	$184,959,000	$119,496,000

TOTALS	Total ($)
Direct Labor	$334,707,758
Direct Nonlabor (excl. from hourly rates)	$107,813,000
Indirect Program Support Labor	$95,584,242
Indirect Program Support Nonlabor	$25,031,000
Agency Support: Corporate & OIG Labor	$119,496,000
Agency Support: Corporate & OIG NonLabor	$184,959,000
TOTAL	$867,591,000

DETERMINATION OF PROFESSIONAL HOURLY RATE CONTINUED

Total included in professional hourly rates:	% total	value
Mission-Direct Program Salaries & Benefits	44.05%	$334,707,758
Mission-Indirect Program Support	15.88%	$120,615,242
Agency Support: Corporate Support w/ Inspector General	40.07%	$304,455,000
Total	100.00%	$759,778,000
less offsetting receipts*		$8,059
Total in professional hourly rate**		$759,769,941

Mission-Direct FTE	1,810
FTE rate- Full Costed** ('Total in professional hourly rates' divided by 'Mission Direct FTE')	$419,767
Annual Mission-direct FTE productive hours	1,510
Mission-direct FTE converted to hours ('Mission Direct FTE' multiplied by 'Annual Mission direct FTE productive hours')	2,733,100
Professional Hourly rate** ('Total in professional hourly rates' divided by 'FTE converted to hours')	$278

*Calculation of offsetting receipts	Total	%	value
FOIA	$8,059	100%	$8,059
INDEMNITY	$0	100%	$0
TOTAL			$8,059

**Since offsetting receipts can not be used to offset total fee collections, offsetting receipts are not subtracted from numerator for FTE rate. Per fee policy documents, we can subtract these receipts when calculating professional hourly rates.

	FY19		FY18		Difference	
	Contract ($,K)	FTE	Contract ($,K)	FTE	Contract ($,K)	FTE
CORPORATE SUPPORT						
BUSINESS LINE: CORPORATE SUPPORT						
Acquisitions						
Mission IT	5,965	2.0	6,202	2.0	(237)	0.0
Commodity Management	0	3.0	0	3.0	0	0.0
Procurement Operations	156	43.0	156	43.0	0	0.0
Administrative Assistants	0	1.0	0	1.0	0	0.0
Strategic Sourcing	0	0.0	0	0.0	0	0.0
Supervisory Staff	0	5.0	0	5.0	0	0.0
Travel	15	0.0	15	0.0	0	0.0
Administrative Services						
Mission IT	2,498	1.0	2,841	2.0	(343)	(1.0)
Supervisory Staff		10.0	0	10.0	0	0.0
Support Services	9,451	23.0	9,156	23.0	295	0.0
Administrative Assistants	295	2.0	295	2.0	0	0.0
IT Infrastructure			0	0.0	0	0.0
Corporate Rulemaking	0	1.0	0	1.0	0	0.0
Facility Management	10,093	14.0	9,934	14.0	159	0.0
Non-Supervisory Staff	108	6.0	108	6.0	0	0.0
Physical & Personnel Security	14,439	18.0	14,315	18.0	124	0.0
Travel	48		48	0.0	0	0.0
Rent & Utilities	35,064	1.0	47,409	1.0	(12,345)	0.0
Financial Management						
Mission IT	11,917	9.0	11,726	12.0	191	(3.0)
Corporate Rulemaking	0	2.0	0	2.0	0	0.0
Supervisory Staff	0	14.0	0	14.0	0	0.0
Budgeting	0	27.0	0	26.0	0	1.0
Administrative Assistants	85	4.0	85	4.0	0	0.0
Non-Supervisory Staff	217	2.0	207	3.0	10	(1.0)
Travel	39	0.0	95	0.0	(56)	0.0
Financial Services	1,900	16.0	2,270	21.0	(370)	(5.0)
Management controls	646	25.0	646	21.0	0	4.0
Performance Management	0	0.0	0	0.0	0	0.0
Human Resource Management						
Mission IT	1,028	3.0	1,039	2.0	(11)	1.0
Supervisory Staff	0	5.0	0	5.0	0	0.0
Non-Supervisory Staff	162	2.0	162	2.0	0	0.0
Administrative Assistants	0	1.0	0	1.0	0	0.0
Travel	87	0.0	147	0.0	(60)	0.0
Employee/Labor Relations	15	5.0	15	5.0	0	0.0
Policy Development & SWP	30	5.0	30	5.0	0	0.0
Recruitment & Staffing	6,598	18.0	5,914	22.0	684	(4.0)
Work Life Services	2,156	5.0	2,156	5.0	0	0.0
Information Technology						
IM Technologies	8,980	15	12,963	14	(3,983)	1.0
IT Infrastructure	51,054	68.0	42,308	74.0	8,746	(6.0)
IT applications infrastructure	0	0.0	2,624	5.0	(2,624)	(5.0)
IT Security	5,371	16.0	7,136	16.0	(1,765)	0.0
Information Services	2,085	18.0	1,807	17.0	278	1.0
Information Security	0	2.0	348	2.0	(348)	0.0
Supervisory Staff	0	17.0	0	18.0	0	(1.0)
Non-Supervisory Staff	0	2.0	0	5.0	0	(3.0)
Travel	98	0.0	98	0.0	0	0.0
Administrative Assistants	424	1.0	408	1.0	16	0.0
Content Management	2,122	7.0	3,006	4.0	(884)	3.0
IT Strategic Management	4,167	28.0	802	20.0	3,365	8.0
Outreach						
Small Business & Civil Rights	424	6.0	457	6.0	(33)	0.0
Outreach & Compliance Coord. Program	429	3.0	462	3.0	(33)	0.0
Supervisory Staff	0	2.0	0	2.0	0	0.0

	FY19		FY18		Difference	
	Contract ($,K)	FTE	Contract ($,K)	FTE	Contract ($,K)	FTE
Administrative Assistants	61	1.0	61	1.0	0	0.0
Non-Supervisory Staff	0	1.0	0	1.0	0	0.0
Mission IT	33	0.0	18	0.0	15	0.0
Travel	30	0.0	30	0.0	0	0.0
Policy Support						
Mission IT	690	0.0	614	0.0	76	0.0
International Cooperation	0	0.0	0	0.0	0	0.0
International Policy Outreach	290	3.0	265	3.0	25	0.0
Performance Management	0	1.0	80	1.0	(80)	0.0
Commission	70	35.0	70	35.0	0	0.0
Commission Appellate Adjudication	90	6.0	90	6.0	0	0.0
EDO Operations	0	8.0	10	8.0	(10)	0.0
Policy Outreach	1,089	35.0	1,005	32.0	84	3.0
Secretariat	0	17.0	0	17.0	0	0.0
Official Representation	25	0.0	25	0.0	0	0.0
Corporate Rulemaking	0	1.0	0	0.0	0	1.0
Supervisory Staff	0	14.0	0	14.0	0	0.0
Administrative Assistants	75	15.0	55	16.0	20	(1.0)
Non-Supervisory Staff	63	1.0	73	1.0	(10)	0.0
Travel	824	0.0	1,023	0.0	(199)	0.0
Training						
Mission IT	266	2.0	263	2.0	3	0.0
Training and Development	1,282	4.0	1,382	4.0	(100)	0.0
Organizational Development	0	2.0	0	2.0	0	0.0
Supervisory Staff	0	3.0	0	3.0	0	0.0
Administrative Assistants	0	1.0	0	1.0	0	0.0
IT Security	150	0.0	245	0.0	(95)	0.0
Non-Supervisory Staff	0	1.0	0	2.0	0	(1.0)
Travel	341	0.0	281	0.0	60	0.0
Business Process Improvements	0	0.0	0	0.0	0	0.0
Total Agency Support (Corporate Support and the IG) Resources	183,545	609	192,980	617	(9,435)	(8.0)
Total value of Corporate Support Resources(FY19 $183,545 contract funding + 609 FTE multiplied by S&B rate)	$ 183,545	$ 109,404	$ 192,980	$ 103,404	(9,435)	6000.0
Office of Inspector General	1,414	58.0	1,810	58.0	(396)	0.0
Total value of the Office of Inspector General Resources($1,414 contract funding + 58 FTE multiplied by S&B rate)	$ 1,414	$ 10,092	$ 1,810	$ 9,918	(396)	174.0
Total Agency Support (Corporate Support and the IG) Resources	$ 184,959	$ 119,496	$ 194,790	$ 113,322	(9,831)	6174.0

	FY19 Contract ($,K)	FY19 FTE	FY18 Contract ($,K)	FY18 FTE	Difference Contract ($,K)	Difference FTE
PROGRAM: NUCLEAR REACTOR SAFETY						
BUSINESS LINE: NEW REACTORS						
International Activities						
Licensing Export/Import	0	0.0	0	0.0	0	0.0
International Technical Cooperation	0	0.0	0	0.0	0	0.0
Licensing						
IT Infrastructure	0	0.0	1,611	0.0	(1611)	0.0
EDO Operations	0	0.0	0	1.0	0	(1.0)
Policy Outreach	0	0.0	0	2.0	0	(2.0)
Business Process Improvements	0	0.0	0	0.0	0	0.0
Travel						
International Activities Travel	166	0.0	0	0.0	166	0.0
Mission Travel	2,120	0.0	2,615	0.0	(495)	0.0
Travel	5	0.0	0	0.0	5	0.0
Support Staff						
Supervisory Staff	0	49.0	0	50.0	0	(1.0)
Admin Assistants	550	24.0	700	24.0	(150)	0.0
Non-Supervisory Staff	0	12.0	48	12.0	(48)	0.0
PROGRAM: NUCLEAR REACTOR SAFETY						
BUSINESS LINE: OPERATING REACTORS						
Licensing						
RIC	0	0.0	718	2.0	(718)	(2.0)
EDO Operations	0	0.0	0	3.0	0	(3.0)
Policy Outreach	0	0.0	0	3.0	0	(3.0)
Business Improvements	0	0.0	0	0.0	0	0.0
Oversight						
Mission IT	0	0.0	143	0.0	(143)	0.0
IT Infrastructure	0	0.0	5,577	0.0	(5577)	0.0
Research						
Mission IT	0	0.0	629	0.0	(629)	0.0
Training						
Training and Development	0	0.0	0	0.0	0	0.0
Business Process Improvements	0	0.0	0	1.0	0	(1.0)
Travel						
International Activities Travel	803	0.0	0	0.0	803	0.0
Mission Travel	13,508	0.0	14,445	0.0	(937)	0.0
Support Staff						
Supervisory Staff	0	184.0	0	187.0	0	(3.0)
Admin Assistants	975	91.0	1,302	93.0	(327)	(2.0)
Non-Supervisory Staff	1,676	65.0	2,139	76.0	(463)	(11.0)
HR Activities	0	0.0	0	0.0	0	0.0
Grand Total Nuclear Reactor Safety	19,803	425.0	29,927	454.0	(10124)	(29.0)
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: FUEL FACILITIES						
International Activities						
Export/Import	0	0.0	0	1.0	0	(1.0)
Oversight						
IT Infrastructure	0	0.0	407	0.0	(407)	0.0
Travel						
International Activities Travel	120	0.0	0	0.0	120	0.0
Mission Travel	981	0.0	1,101	0.0	(120)	0.0
Support Staff						
Supervisory Staff	0	14.0	0	16.0	0	(2.0)
Admin Assistants	268	4.0	268	4.0	0	0.0
Non-Supervisory Staff	82	2.0	82	2.0	0	0.0

PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY BUSINESS LINE: NUCLEAR MATERIALS USERS						
International Activities						
Export/Import	0	0.0	0	0.0	0	0.0
Licensing						
EDO Operations	0	0.0	0	1.0	0	(1.0)
Policy Outreach	0	0.0	0	1.0	0	(1.0)
Oversight						
IT Infrastructure	0	0.0	832	0.0	(832)	0.0
Travel						
International Activities Travel	79	0.0	0	0.0	79	0.0
International Assistance Travel	350	0.0	0	0.0	350	0.0
Mission Travel	1,334	0.0	1,790	0.0	(456)	0.0
Training						
Business Process Improvements	0	0.0	0	1.0	0	1.0
Support Staff						
Supervisory Staff	0	25.0	0	24.0	0	1.0
Admin Assistants	0	8.0	0	9.0	0	(1.0)
Non-Supervisory Staff	497	10.0	497	11.0	0	(1.0)
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY BUSINESS LINE: DECOMMISSIONING AND LOW LEVEL WASTE						
Licensing						
IT Infrastructure	0	0.0	346	0.0	(346)	0.0
Policy Outreach	0	0.0	0	1.0	0	(1.0)
Travel						
Mission Travel	730	0.0	797	0.0	(67)	0.0
International Activities Travel	180	0.0	0	0.0	180	0.0
Support Staff						
Supervisory Staff	0	11.0	0	11.0	0	0.0
Support Services	0	0.0	0	0.0	0	0.0
Budget	0	0.0	0	0.0	0	0.0
Content Mgmt	0	0.0	12	0.0	(12)	0.0
Admin Assistants	0	2.0	0	2.0	0	0.0
HR Activities	0	0.0	0	0.0	0	0.0
Non-Supervisory Staff	12	1.0	0	2.0	12	(1.0)
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY BUSINESS LINE: SPENT FUEL STORAGE AND TRANSPORTATION						
Licensing						
IT Infrastructure	0	0.0	405	0.0	(405)	0.0
Policy Outreach	0	0.0	0	1.0	0	(1.0)
Oversight			0	0.0	0	0.0
Travel						
Mission Travel	461	0.0	519	0.0	(58)	0.0
International Activities Travel	120	0.0	0	0.0	120	0.0
Support Staff						
Supervisory Staff	0	11.0	0	11.0	0	0.0
Support Services	0	0.0	0	0.0	0	0.0
Content Mgmt	0	0.0	14	0.0	(14)	0.0
Budget	0	0.0	0	0.0	0	0.0
Admin Assistants	0	2.0	0	2.0	0	0.0
Non-Supervisory Staff	14	2.0	0	3.0	14	(1.0)
Grand Total Nuclear Materials & Waste Safety	5,228	92.0	7,070	103	(1842)	(11.0)
Total Mission Program Indirect Resources	25,031	517.0	36,997	557.0	(11966)	(40.0)
Total value of Mission Program Indirect Resources(FY 19 $25,031 contract funding + 517 FTE multiplied by S&B rate)	$ 25,031	$ 95,584	$ 36,997	$ 97,995	(11966)	(2410.7)

Part 170 Fees

Specific Services

Section II.A.2

Flat application fees are calculated by multiplying the average professional staff hours needed to process the licensing actions by the Final professional hourly rate ($278 for FY 2019). The agency estimates the average professional staff hours every other year as part of its biennial review of fees which was performed in FY 2019.

Full cost fees are determined based on the professional staff time and appropriate contractual support of services. The full cost fees for professional staff time will be determined at the professional hourly rate in effect the time the service was provided.

The NRC estimates the amount of 10 CFR part 170 fees for each fee class based on established fee methodology guidelines (42 FR 22149; May 2, 1977), which specified that the NRC has the authority to recover the full cost of providing services to identifiable beneficiaries. The NRC uses these established guidelines to apply the most current financial data and workload projections by offices and divisions to calculate the 10 CFR part 170 fee estimates.
Current financial data includes: 1) four quarters of the most recent billing data (professional hourly rate invoice data); 2) actual contractual work charged (prior period data) to develop contract work estimates; and 3) the number of FTE hours charged, multiplied by the NRC professional hourly rate

DETERMINATION OF MATERIALS PART 170 APPLICATION FEES
and Average Inspection Costs **
FY 2019

FY2019 Professional Hourly Rate
$278

Materials Part 170 Fee

Category	FY 2019 Estimated Professional Process Time (Hours)*	FY 2019 Fee/Cost (Professional Time x FY 2019 Professional Hourly Rate)	FY 2019 Fee/Cost (Rounded)
1. Special Nuclear Material			
1C. Industrial Gauges			
Inspection Costs**	7.7	$2,141	$2,100
New License	4.6	$1,279	$1,300
1D. All Other SNM Material, less critical mass			
Inspection Costs**	23.1	$6,422	$6,400
New License	9.3	$2,585	$2,600
2. Source Material			
2B. Shielding			
Inspection Costs**	10	$2,780	$2,800
New License	4.4	$1,223	$1,200
2C. Exempt Distribution/SM			
Inspection Costs**	14.5	$4,031	$4,000
New License	15.5	$4,309	$4,300
2D. General License Distribution			
Inspection Costs**	15.6	$4,337	$4,300
New License	9.9	$2,752	$2,800
2E. Manufacturing Distribution			
Inspection Costs**	15.6	$4,337	$4,300
New License	9.5	$2,641	$2,600
2F. All Other Source Material			
Inspection Costs**	28.8	$8,006	$8,000
New License	9.5	$2,641	$2,600
3. Byproduct Material			
3A. Mfg-Broad Scope			
Inspection Costs**	57.7	$16,040	$16,000
New License	46.8	$13,010	$13,000
3. Byproduct Material			
3A1. Mfg-Broad Scope			
Inspection Costs**	76.9	$21,377	$21,400
New License	62.2	$17,291	$17,300
3. Byproduct Material			
3A2. Mfg-Broad Scope			
Inspection Costs**	96.2	$26,742	$26,700
New License	77.7	$21,600	$21,600

DETERMINATION OF MATERIALS PART 170 APPLICATION FEES
and Average Inspection Costs **
FY 2019

FY2019 Professional Hourly Rate
$278

3B. Mfg-Other			
Inspection Costs**	33.9	$9,424	$9,400
New License	12.9	$3,586	$3,600
3B1. Mfg-Other (sites 6-19)			
Inspection Costs**	45.2	$12,565	$12,600
New License	17.2	$4,781	$4,800
3B2. Mfg-Other (sites 20 or more)			
Inspection Costs**	56.5	$15,706	$15,700
New License	21.4	$5,949	$5,900
3C. Mfg/Distribution Radiopharmaceuticals			
Inspection Costs**	23.8	$6,616	$6,600
New License	18.7	$5,198	$5,200
3C1. Mfg/Distribution Radiopharmaceuticals			
Inspection Costs**	31.7	$8,812	$8,800
New License	24.9	$6,922	$6,900
3C2. Mfg/Distribution Radiopharmaceuticals			
Inspection Costs**	39.7	$11,036	$11,000
New License	31.0	$8,618	$8,600
3D. Distribution Radiopharmaceuticals/No Process			
Inspection Costs**	0	$0	$0
New License	0	$0	$0
3E. Irradiators/Self-Shielded			
Inspection Costs**	49.8	$13,844	$13,800
New License	11.5	$3,197	$3,200
3F. Irradiators < 10,000 Ci			
Inspection Costs**	15.7	$4,364	$4,400
New License	23.4	$6,505	$6,500
3G. Irradiators => 10,000 Ci			
Inspection Costs**	15.6	$4,337	$4,300
New License	223.2	$62,047	$62,000
3H. Exempt Distribution/Device Review			
Inspection Costs**	14.1	$3,920	$3,900
New License	23.9	$6,644	$6,600
3I. Exempt Distribution/No Device Review			
Inspection Costs**	14.5	$4,031	$4,000
New License	41.6	$11,564	$11,600
3J. General License Distribution/Device Review			
Inspection Costs**	10.5	$2,919	$2,900
New License	7.2	$2,002	$2,000

DETERMINATION OF MATERIALS PART 170 APPLICATION FEES
and Average Inspection Costs **
FY 2019

FY2019 Professional Hourly Rate
$278

3K. General License Distribution/No Device Review			
Inspection Costs**	10.4	$2,891	$2,900
New License	4.1	$1,140	$1,100
3L. R&D-Broad			
Inspection Costs**	40.4	$11,231	$11,200
New License	19.7	$5,476	$5,500
3L1 R&D-Broad			
Inspection Costs**	53.9	$14,984	$15,000
New License	26.2	$7,283	$7,300
3L2 R&D-Broad			
Inspection Costs**	67.3	$18,709	$18,700
New License	32.7	$9,090	$9,100
3M. R&D-Other			
Inspection Costs**	23.8	$6,616	$6,600
New License	29.8	$8,284	$8,300
3N. Service License			
Inspection Costs**	34.2	$9,507	$9,500
New License	32	$8,896	$8,900
3O. Radiography			
Inspection Costs**	28.4	$7,895	$7,900
New License	22.8	$6,338	$6,300
3O1. Radiography			
Inspection Costs**	37.9	$10,536	$10,500
New License	30.4	$8,451	$8,500
3O2. Radiography			
Inspection Costs**	47.3	$13,149	$13,100
New License	38.0	$10,564	$10,600
3P. All Other Byproduct Material			
Inspection Costs**	24.5	$6,811	$6,800
New License	17	$4,726	$4,700
3P1. All Other Byproduct Material			
Inspection Costs**	32.7	$9,090	$9,100
New License	22.7	$6,310	$6,300
3P2. All Other Byproduct Material			
Inspection Costs**	40.8	$11,342	$11,300
New License	28.3	$7,867	$7,900

DETERMINATION OF MATERIALS PART 170 APPLICATION FEES and Average Inspection Costs ** FY 2019

FY2019 Professional Hourly Rate $278

3R1. Radium-226 (less than or equal to 10x limits in 31.12)			
Inspection Costs**	24.2	$6,727	$6,700
New License	9.2	$2,557	$2,600
3R2. Radium-226 (more than 10x limits in 31.12)			
Inspection Costs**	16.2	$4,503	$4,500
New License	9	$2,502	$2,500
3S. Accelerator Produced Radionuclides			
Inspection Costs**	31.6	$8,784	$8,800
New License	51.1	$14,205	$14,200
4B. Waste Packaging			
Inspection Costs**	23.5	$6,533	$6,500
New License	24.9	$6,922	$6,900
4C. Waste-Prepackaged			
Inspection Costs**	14.2	$3,947	$3,900
New License	18	$5,004	$5,000
5. Well Logging			
5A. Well Logging			
Inspection Costs**	33	$9,174	$9,200
New License	16.5	$4,587	$4,600
6. Nuclear Laundries			
6A. Nuclear Laundry			
Inspection Costs**	21.7	$6,032	$6,000
New License	79.7	$22,156	$22,200
7. Human Use			
7A. Teletherapy			
Inspection Costs**	57.8	$16,068	$16,100
New License	40	$11,120	$11,100
7. Human Use			
7A1. Teletherapy			
Inspection Costs**	77.1	$21,433	$21,400
New License	53.2	$14,789	$14,800
7. Human Use			
7A2. Teletherapy			
Inspection Costs**	96.3	$26,770	$26,800
New License	66.4	$18,458	$18,500

DETERMINATION OF MATERIALS PART 170 APPLICATION FEES
and Average Inspection Costs **
FY 2019

FY2019 Professional Hourly Rate
$278

7B. Medical-Broad			
Inspection Costs**	50.9	$14,150	$14,100
New License	31.2	$8,673	$8,700
7B1. Medical-Broad			
Inspection Costs**	67.9	$18,875	$18,900
New License	41.5	$11,535	$11,500
7B2. Medical-Broad			
Inspection Costs**	84.8	$23,573	$23,600
New License	51.8	$14,398	$14,400
7C. Medical-Other			
Inspection Costs**	25	$6,950	$6,900
New License	23.6	$6,561	$6,600
7C1. Medical-Other			
Inspection Costs**	33.3	$9,243	$9,200
New License	31.4	$8,725	$8,700
7C2. Medical-Other			
Inspection Costs**	41.5	$11,537	$11,500
New License	39.2	$10,890	$10,900
8. Civil Defense			
8A. Civil Defense			
Inspection Costs**	24.2	$6,727	$6,700
New License	9.2	$2,557	$2,600
9. Device, product or sealed source evaluation			
9A. Device evaluation-commercial distribution			
Application - each device	39	$10,842	$10,800
9B. Device evaluation - custom			
Application - each device	32.4	$9,007	$9,000
9C. Sealed source evaluation - commercial distribution			
Application - each source	19	$5,282	$5,300
9D. Sealed source evaluation - custom			
Application - each source	3.8	$1,056	$1,100
10. Transportation			
10B. Evaluation - Part 71 QA program			
Application - approval	15.1	$4,198	$4,200

DETERMINATION OF MATERIALS PART 170 APPLICATION FEES
and Average Inspection Costs **
FY 2019

FY2019 Professional Hourly Rate
$278

17. Master Materials License[1]			
Inspection Costs**	445.6	$123,872	$123,900
New License	397	$110,361	$110,400

NOTES:

Rounding: <$1000 rounded to nearest $10,
=or>$1000 and <$100,000 rounded to nearest $100,
=or>$100,000 rounded to nearest $1,000

* hours based on FY 2019 Biennial Review
** Inspection costs are used in computation of the Annual fees for the category
[1] Beginning with FY 2011 fee rule, the Master Materials License Part 170 application fee was eliminated. Per FSME's recommendation in their Biennial Review, the fee for a new MML license will be fully costed based on the hours spent on reviewing a new application.

Part 170 Fees

Export and Import Fees

Section II.A.2

Flat application fees are calculated by multiplying the average professional staff hours needed to process the licensing actions by the Final professional hourly rate ($278 for FY 2019). The agency estimates the average professional staff hours every other year as part of its biennial review of fees. The agency estimates the average professional staff hours every other year as part of its biennial review of fees which was performed in FY 2019.

Note: Because the FY 2019 enacted budget excludes international activities from the fee-recoverable budget, import and export licensing actions (see fee categories K.1. through K.5. of § 170.21 and fee categories 15.A. through 15.R. of § 170.31) will not be charged fees under the Final rule. To implement this, the NRC has revised fee categories K.1. through K.5. of § 170.21 and fee categories 15.A. through 15.R. of § 170.31 and included a new footnote in these tables.

Mission Direct Budgeted Resources Allocated to Import-Export Fee Class

	FY19		FY18		Difference	
	Contract ($,K)	FTE	Contract ($,K)	FTE	Contract ($,K)	FTE
PROGRAM: NUCLEAR REACTOR SAFETY						
BUSINESS LINE: NEW REACTORS						
PRODUCT LINE/ PRODUCTS:						
Total Direct Resources	0	0.0	0	0.0	0	0.0
PROGRAM: NUCLEAR REACTOR SAFETY						
BUSINESS LINE: OPERATING REACTORS						
PRODUCT LINE/PRODUCTS:						
International Activities						
Licensing Import/Export	0	0.0	0	0.0	0	0.0
Total Direct Resources	0	0.0	0	0.0	0	0.0
Grand Total Nuclear Reactor Safety	0	0.0	0	0.0	0	0.0
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: FUEL FACILITIES						
PRODUCT LINE/PRODUCTS:						
International Activities						
Licensing Import/Export	0	0.0	0	0.0	0	0.0
Total Direct Resources	0	0.0	0	0.0	0	0.0
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: NUCLEAR MATERIALS USERS						
PRODUCT LINE/PRODUCTS:						
International Activities						
Licensing Import/Export	0	0.0	0	0.0	0	0.0
Total Direct Resources	0	0.0	0	0.0	0	0.0
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: DECOMMISSIONING AND LOW LEVEL WASTE						
PRODUCT LINE/PRODUCTS:						
Total Direct Resources	0	0.0	0	0.0	0	0.0
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: SPENT FUEL STORAGE AND TRANSPORTATION						
PRODUCT LINE/PRODUCTS:						
Total Direct Resources	0	0.0	0	0.0	0	0.0
Grand Total Nuclear Materials & Waste Safety	0	0.0	0	0.0	0	0.0
TOTAL	0	0.0	0	0.0	0	0.0
Total value of budgeted resources for fee class(mission direct FTE x full cost of FTE + mission direct contract $)	$0		$0		$0	

DETERMINATION OF MATERIALS PART 170 APPLICATION FEES
and Average Inspection Costs **
FY 2019

FY2019 Professional Hourly Rate
$278

DETERMINATION OF EXPORT AND IMPORT PART 170 FEES
FY 2019

FY 2018 Professional Hourly Rate = $278

Export and Import Part 170 Fees **Category**	FY 2019 Estimated Professional Process Time (Hours)*	FY 2019 Fee/Cost (Professional Time x FY 2019 Professional Hourly Rate)	FY 2019 Fee/Cost (Rounded)
10 CFR 170.21, Category K Subcategory			
1	65	18,069	18,100
2	35	9,730	9,700
3	17	4,726	4,700
4	17	4,726	4,700
5	10	2,780	2,800
10 CFR 170.31, Category 15 Subcategory			
A	65	18,069	18,100
B	35	9,730	9,700
C	17	4,726	4,700
D	17	4,726	4,700
E	18	5,004	5,000
F	60	16,679	16,700
G	30	8,340	8,300
H	11	3,058	3,100
I	1	278	300
J	60	16,679	16,700
K	30	8,340	8,300
L	15	4,170	4,200
M	0	0	0
N	0	0	0
O	0	0	0
P	0	0	0
Q	0	0	0
R	5	1,390	1,400

NOTES:

The application fees and amendment fees are the same for each subcategory because, per discussion with IP representatives, the processing time is the same for a new license or an amendment to the license.

Rounding: <$1000 rounded to nearest $10,
=or>$1000 and <$100,000 rounded to nearest $100,
=or>$100,000 rounded to nearest $1,000

* data based on FY 2019 Biennial Review

Part 170 Fees

Reciprocity Fees - Agreement State Licensees

Section III.A.2

The application fee for Agreement State licensees who conduct activities under the reciprocity provisions of 10 CFR 150.20 is determined using FYs 2014 through 2017 data and the FY 2019 professional hourly rate. The FYs 2014-2017 reciprocity fee data was provided as part of the FY 2019 biennial review of fees.

DETERMINATION OF MATERIALS PART 170 APPLICATION FEES and Average Inspection Costs **
FY 2019

FY2019 Professional Hourly Rate
$278

DETERMINATION OF RECIPROCITY PART 170 FEES
FY 2019

NOTES:

The reciprocity application and revision fees are determined using FYs 2014-2017 data*, and the FY 2019 professional hourly rate.
The reciprocity application fee includes average costs for inspections, average costs for processing initial filings of NRC Form 241, and average costs for processing changes to the initial filings of NRC Form 241.

FY 2019 Professional Hourly Rate: **$278**

Average inspection costs: Reciprocity Part 170 Fee **Fee Category 16**		**Avg Inspection Costs (Avg. no. of hours for insp. x professional hourly rate)**	**Total Amount**
Inspection		$8,800	
Number of Inspections Conducted for FY14-17	78		
	0		
Total	78		$171,600
Average for the 4 years	19.5		
Initial 241s		$600	
Number of Completions for FY14-17	846		
	0		
Total	846		$126,900
Average for the 4 years	211.5		
Revised 241s		$100	
Number of Completions for FY14-17	6209		
	0		
Total	6209		$155,225
Average for the 4 years	1552.25		

APPLICATION FEE:	
Amount for inspections [Cost/Initial 241]	$811
Amount for initial filing of NRC Form 241[Cost/Initial 241]	$600
for revisions to initial filing of NRC Form 241 [Cost/Initial 241]	$734
Total Application Fee	$2,145
Application Fee Rounded	**$2,100**

* data based on FY 2019 Biennial Review

Part 170 Fees

General License Registration Fees

Section II.A.2

This fee under byproduct material is for registration of a device(s) generally licensed under part 31 of this chapter.

DETERMINATION OF MATERIALS PART 170 APPLICATION FEES
and Average Inspection Costs **
FY 2019

FY2019 Professional Hourly Rate
$278

DETERMINATION OF GENERAL LICENSE REGISTRATION FEE , FY 2019
(FEE CATEGORY 3Q)

NMSS GL Program		Total GL Resources	% Supporting Registrable GLs	Total Supporting Registrable GLs
budgeted FTE				
	Regions			
	HQ			0.20
budgeted contract $				
	Regions			$0
	HQ			$288,500
full cost of FTE		$419,767		$419,767
total budgeted resources, NMSS GL Program (equals full cost of FTE + contract $)				$372,453
portion of budgeted resources associated w/fee exempt GLs (nonprofit educational)				$21,230
net to be recovered				$351,224
fee assuming 525 registrable GLs				$712.42
fee, rounded				$700

Data based on the NRC budget documents and the 11/17 email from J.Rand(NMSS GL program).

Fees Collected for Prior Year

As part of the NRC's fees transformation, beginning with the FY 2018 final fee rule work papers, we have compared the FY 2018 actual Part 170 and Part 171 percentage of total collections with the estimated Part 170 and Part 171 percentage of total collections.

FEES COLLECTED FOR PRIOR YEAR

Fee Class	FY 2018 Actual Part 170-User Fees % of Total Collections for the Fee Class	FY 2018 Actual Part 171-Annual Fees % of Total Collections for the Fee Class	FY 2017 Estimated Part 170-User Fees % of Total Collections for the Fee Class	FY 2017 Estimated Part 171-Annual Fees % of Total Collections for the Fee Class
Fee Relief Activities	100%	0%	100%	0%
Operating Power Ractors	35%	65%	36%	64%
Spent Fuel Storage/Reactor Decommissioning	28%	72%	30%	70%
Fuel Facilities	23%	77%	25%	75%
Uranium recovery	80%	20%	96%	4%
Research and Test Reactors	81%	19%	84%	16%
Rare Earth	100%	0%	0%	0%
Materials users	3%	97%	3%	97%
Transportation	73%	27%	74%	26%
Export and Import Fees	100%	0%	0%	0%
Total	34%	66%	31%	69%

As part of improving transparency of the fee setting process, NRC committed to providing more information to identify budgeted activities allocated to user fees or annual fees. The FY 2019 Congressional Budget Justification released on February 12, 2018, included which Products Lines may generally be annual or user fees for each business line.

In addition, NRC will report fees collected for the prior fiscal year, by fee class, beginning with the FY 2018 final fee rule workpapers. Each fee class data includes distribution of fees collected as user fees (10 CFR Part 170) and annual fees (10 CFR Part 171).

Part 171 Annual Fees

Section II.B

Part 171 Annual Fees

Application of Fee-Relief Adjustment and LLW Surcharge

Section II.B.1

Table III
Table IV

The NRC applies the 10 percent of its budget that is excluded from fee recovery under OBRA-90, as amended (fee relief), to offset the total budget allocated for activities which do not directly benefit current NRC licensees. The budgeted resources for these fee-relief activities are totaled, and then reduced by the amount of the NRC's fee relief. Any difference between the fee relief and the budgeted amount of these activities results in a fee relief adjustment (increase or decrease) to all licensees' annual fees, based on their percent of the budget (the majority is allocated to power reactors each year).

The FY 2019 budgeted resources for NRC's fee-relief activities are $87.0 million. The NRC's 10 percent fee relief amount in FY 2019 is $86.8 million, leaving a $0.4 million fee-relief credit that will decrease all licensees' annual fees based on their percentage share of the budget.

Separately, the NRC has continued to allocate the low-level waste (LLW) surcharge based on the volume of LLW disposal of three classes of licensees, operating reactors, fuel facilities, and materials users.

Note: For FY 2019, the enacted budget excludes international activities from the fee-recoverable budget. This includes conventions and treaty activities that are not attributable to an existing NRC licensee or class of licensees, and it included international cooperation activities that are not attributable to an existing NRC licensee or class of licensees.

Fee-Relief Activity-Rebaseline

FY 2019 FEE-RELIEF ACTIVITIES AND LLW GENERIC SURCHARGE

FTE rate: $419,767

	DIRECT RESOURCES		Less Part 170	FEE AMOUNT
	$,M	FTE	materials decommissioning revenue, $ M	($,M)
TOTAL NRC				
NONPROFIT EDUCATIONAL EXEMPTION	0.6	20.2		9.1
INTERNATIONAL ACTIVITIES	0.0	0.0		0.0
SMALL ENTITY SUBSIDY				8.0
AGREEMENT STATE OVERSIGHT	1.9	22.9		11.5
REGULATORY SUPPORT TO AGREEMENT STATES	2.9	28.1		14.7
URANIUM RECOVERY PROGRAM & UNREGISTERED GENERAL LICENSES	16.2	27.1		27.6
DECOMMISSIONING/RECLAMATION GENERIC	1.3	35.2	3.2	12.9
MILITARY RADIUM 226	0.4	4.0		2.1
NON-MILITARY RADIUM 226	0.0	2.7		1.1
LLW GENERIC SURCHARGE	0.2	8.5		3.8
TOTAL	23.54	148.7		90.81

To meet the 90% fee recovery requirement for FY 2018, the Fee-Relief Activities are reduced by 10% of NRC's FY 2019 net budget authority (appropriation less Non-Recoverable Fee Items1, as shown below)

	($,M)
Fee-Relief Activity (Total above less LLW generic surcharge)[2]	87.01
Budget Authority minus Non-Fee Items	867.59
Percent reduction in fee recovery amount for FY 2019	10.0%
Reduction in annual fee recovery amount for FY 2019	86.76
Delta, Fee-Relief Activity (less generic LLW) and reduction in fee recovery amt	0.25
Generic LLW Surcharge amount	3.80
Net adjustment to fee assessments	**4.1**

DISTRIBUTION OF ADJUSTMENT TO FEE ASSESSMENTS

	LLW GENERIC SURCHARGE		FEE-RELIEF ACTIVITIES		TOTAL ADJUSTMENT
	PERCENT	$,M	PERCENT	$,M	$,M
POWER REACTORS	84.0%	3.189	86.7%	0.220	3.409
SPENT FUEL STORAGE/REACTOR DECOMMISSIONING	0.0%	0.000	4.7%	0.012	0.012
TEST AND RESEARCH REACTORS	0.0%	0.000	0.1%	0.000	0.000
FUEL FACILITIES	12.7%	0.482	4.0%	0.010	0.492
MATERIALS	3.3%	0.125	3.8%	0.010	0.135
TRANSPORTATION	0	0.000	0.6%	0.002	0.002
RARE EARTH FACILITIES	0	0.000	0.0%	0.000	0.000
URANIUM RECOVERY	0	0.000	0.1%	0.000	0.000
TOTAL	100	3.797	100.0%	0.254	4.051

NOTES:

[1]Non-Recoverable Fee Items: DNFSB, WIR , ARI, IA and generic homeland security

[2]Generic LLW activities are not considered a fairness and equity issue because licensees will benefit from these activities

FEE RELIEF ADJUSTMENT SUPPLEMENTAL

To meet the 90% fee recovery requirement for FY 2019, the Fee-Relief Activities are reduced by 10% of NRC's FY 2019 net budget authority (appropriation less Non-Recoverable Fee Items, as shown below)

	FY 2019 ($,M)	FY 2018 ($,M)	Variance ($,M)
Fee-Relief Activity (Total previous page less LLW generic surcharge)	$87.0	$83.9	$3.1
Budget Authority minus Excluded Fee Items	$867.6	$878.2	-$10.6
Percent reduction in fee recovery amount for FY 2019	10.0%	10.0%	-
Reduction in annual fee recovery amount for FY 2019	$86.8	$87.8	-$1.0
Delta, Fee-Relief Activity (less generic LLW) and reduction in fee recovery amount	**$0.3**	**-$3.9**	$4.2
Generic LLW Surcharge amount	$3.8	$3.4	$0.4
Net adjustment to fee assessments	**$4.1**	**-$0.5**	$4.6

* Individual values may not sum tot totals due to rounding.

Mission Direct Budgeted Resources Allocated to Nonprofit Education Exemption Fee-Relief Category

	FY19		FY18		Difference	
	Contract ($,K)	FTE	Contract ($,K)	FTE	Contract ($,K)	FTE
PROGRAM: NUCLEAR REACTOR SAFETY						
BUSINESS LINE: OPERATING REACTORS						
PRODUCT LINE/PRODUCTS:						
Licensing						
Research & Test Reactors	597	12.3	453	12.5	144	(0.2)
Oversight					0	0.0
Enforcement	1.1	0.1	1.1	0.0	0	0.1
Event Evaluation	0	0.0	0	0.0	0	0.0
Inspection	0	3.6	0	0.0	0	3.6
Mission IT	0.6	0.0	0.7	0.0	(0)	0.0
Research & Test Reactor Insp.	0	0.0	0	2.7	0	(2.7)
Training						
Mission Training	17	0.0	30	0.0	(13)	0.0
Total Direct Resources	615.7	16.0	484	15.2	131	0.8
Grand Total Nuclear Reactor Safety	615.7	16.0	484	15.2	131	0.8
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: NUCLEAR MATERIALS USERS						
PRODUCT LINE/PRODUCTS:						
Licensing						
Licensing Actions	0	1.3	2	2.0	(2)	(0.7)
Licensing Support	1	0.0	0	0.0	1	0.0
Mission IT	0	0.0	1	0.0	(1)	0.0
Security	0	0.0	0	0.0	0	0.0
Oversight						
Allegations & Investigations	0	0.6	0	0.5	0	0.1
Enforcement	2.9	0.4	2.9	0.4	0	0.0
Event Evaluation	0	0.2	0	0.1	0	0.1
Inspection	4.9	0.9	4.9	0.7	0	0.2
IT Infrastructure	6.0	0.0	0	0.0	6	0.0
Rulemaking						
Rulemaking	0	0.3	0	0.6	0	(0.3)
Rulemaking Support	0	0.2	0	0.0	0	0.2
Training						
Mission Training	6	0.0	7	0.0	(1)	0.0
NSPDP Training	0	0.0	0	0.0	0	0.0
Total Direct Resources	20.8	3.9	17	4.3	3	(0.4)
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: SPENT FUEL STORAGE AND TRANSPORTATION						
PRODUCT LINE/PRODUCTS:						
Licensing						
Transportation Certification	0	0.3	0	0.3	0	0.0
Total Direct Resources	0	0.3	0	0.3	0	0.0
Grand Total Nuclear Materials & Waste Safety	20.8	4.2	17.4	4.6	3	(0.4)
TOTAL Nonprofit Education Exemption	636.5	20.2	502	19.8	135	0.4
Total value of budgeted resources for fee class(mission direct FTE x full cost of FTE + mission direct contract $)	$1,480		$8,726		($7,246)	

Mission Direct Budgeted Resources Allocated to International Activities Fee-Relief Category

	FY19		FY18		Difference	
	Contract ($,K)	FTE	Contract ($,K)	FTE	Contract ($,K)	FTE
PROGRAM: NUCLEAR REACTOR SAFETY						
BUSINESS LINE: NEW REACTORS						
PRODUCT LINE/ PRODUCTS:						
International Activities						
International Cooperation	0	0.0	0	0.0	0	0.0
Training						
Mission Training	0	0.0	0	0.0	0	0.0
NSPDP Training	0	0.0	0	0.0	0	0.0
Total Direct Resources	0	0.0	0	0.0	0	0.0
PROGRAM: NUCLEAR REACTOR SAFETY						
BUSINESS LINE: OPERATING REACTORS						
PRODUCT LINE/PRODUCTS:						
International Activities						
Conventions & Treaties	0	0.0	0	0.0	0	0.0
International Cooperation	0	0.0	0	0.0	0	0.0
Training						
Fukushima NTTF	0	0.0	0	0.0	0	0.0
Mission Training	0	0.0	0	0.0	0	0.0
NSPDP Training	0	0.0	0	0.0	0	0.0
Total Direct Resources	0	0.0	0	0.0	0	0.0
Grand Total Nuclear Reactor Safety	0	0.0	0	0.0	0	0.0
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: FUEL FACILITIES						
PRODUCT LINE/PRODUCTS:						
International Activities						
Conventions & Treaties	0	0.0	0	0.0	0	0.0
Licensing Import/Export	0	0.0	0	0.0	0	0.0
International Cooperation	0	0.0	0	0.0	0	0.0
Training			0	0.0		
Mission Training	0	0.0	0	0.0	0	0.0
NSPDP Training	0	0.0	0	0.0	0	0.0
Total Direct Resources	0	0.0	0	0.0	0	0.0
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: NUCLEAR MATERIALS USERS						
PRODUCT LINE/PRODUCTS:						
International Activities						
International Technical Cooperation	0	0.0	0	0.0	0	0.0
International Assistance	0	0.0	0	0.0	0	0.0
Travel			0	0.0		
International Activities Travel	0	0.0	0	0.0	0	0.0
Training			0	0.0		
Mission Training	0	0.0	0	0.0	0	0.0
NSPDP Training	0	0.0	0	0.0	0	0.0
Total Direct Resources	0	0.0	0	0.0	0	0.0
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: DECOMMISSIONING AND LOW LEVEL WASTE						
PRODUCT LINE/PRODUCTS:						
International Activities						
International Technical Cooperation	0	0.0	0	1.0	0	(1.0)
Conventions & Treaties	0	0.0	0	1.0	0	1.0
Mission Training						
Training	0	0.0	0	0.0	0	0.0
Total Direct Resources	0	0.0	0	0.0	0	0.0
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: SPENT FUEL STORAGE AND TRANSPORTATION						
PRODUCT LINE/PRODUCTS:						
International Activities						
International Technical Cooperation	0	0.0	0	0.0	0	0.0
Conventions & Treaties	0	0.0	0	0.0	0	0.0
Mission Travel			0	0.0	0	0.0
Training			0	0.0		
Mission Training	0	0.0	0	0.0	0	0.0
Total Direct Resources	0	0.0	0	0.0	0	0.0
			0	0.0		
Grand Total Nuclear Materials & Waste Safety	0	0.0	0	0.0	0	0.0

Mission Direct Budgeted Resources Allocated to International Activities Fee-Relief Category

	FY19		FY18		Difference	
	Contract ($,K)	FTE	Contract ($,K)	FTE	Contract ($,K)	FTE
TOTAL INTERNATIONAL ACTIVITIES	0	0.0	0	0.0	0	0.0
Total value of budgeted resources for fee class(mission direct FTE x full cost of FTE + mission direct contract $)	$0		$0		$0	

Per the 2019 Appropriation International activities are off the Fee Base.

Mission Direct Budgeted Resources Allocated to Agreement State Oversight Fee-Relief Category

	FY19		FY18		Difference	
	Contract ($,K)	FTE	Contract ($,K)	FTE	Contract ($,K)	FTE
PROGRAM: NUCLEAR REACTOR SAFETY						
BUSINESS LINE: NEW REACTORS						
PRODUCT LINE / PRODUCTS:						
Training						
Mission Training	10	0.0	10	0.0	0	0.0
Total Direct Resources	10	0.0	10	0.0	0	0.0
PROGRAM: NUCLEAR REACTOR SAFETY						
BUSINESS LINE: OPERATING REACTORS						
PRODUCT LINE/PRODUCTS:						
Oversight						
Mission Training	10	0.0	0	0.0	10	0.0
Training						
Mission Training	26	0.2	28	0.2	(2)	0.0
Total Direct Resources	36	0.2	28	0.2	8	0.0
Grand Total Nuclear Reactor Safety	46	0.2	38	0.2	8	0.0
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: NUCLEAR MATERIALS USERS						
PRODUCT LINE/PRODUCTS:						
State Tribal and Federal Programs						
Agreement States	125	22.0	125	27.0	0	(5.0)
Mission IT	137	0.0	187	0.0	(50)	0.0
Travel						
Agreement State Travel	1,090	0.0	1,159	0.0	(69)	0.0
Total Direct Resources	1,352	22.7	1,471	27.7	(119)	(5.0)
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: DECOMMISSIONING AND LOW LEVEL WASTE						
PRODUCT LINE/PRODUCTS:						
Training						
Mission Training	446	0.0	356	0.0	90	0.0
Total Direct Resources	446	0.0	356	0.0	90	0.0
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: SPENT FUEL STORAGE AND TRANSPORTATION						
PRODUCT LINE/PRODUCTS:						
Training						
Mission Training	40	0.0	0	0.0	40	0.0
Total Direct Resources	40	0.0	0	0.0	40	0.0
Grand Total Nuclear Materials & Waste Safety	1,838	22.7	1,827	27.7	11	(5.0)
TOTAL AGREEMENT STATE OVERSIGHT	1,884	22.9	1,865	27.9	19	(5.0)
Total value of budgeted resources for fee class(mission direct FTE x full cost of FTE + mission direct contract $)	$11,497		$13,453		($1,957)	

Mission Direct Budgeted Resources Allocated to Agreement State Regulatory Support Fee-Relief Category

	FY19		FY18		Difference	
	Contract ($,K)	FTE	Contract ($,K)	FTE	Contract ($,K)	FTE
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: FUEL FACILITIES						
PRODUCT LINE/PRODUCTS:						
Training						
Mission Training	328	0.0	160	0.0	168	0.0
Total Direct Resources	328	0.0	160	0.0	168	0.0
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: NUCLEAR MATERIALS USERS						
PRODUCT LINE/PRODUCTS:						
Event Response						
Response Operations	0	0.7	0	1.7	0	(1.0)
Response Programs	0	1.7	0	1.7	0	0.0
Licensing						
Licensing Actions	0	0.0	30	12.9	(30)	(12.9)
Licensing Support	242	7.0	242	0.2	(0)	6.8
Mission IT	124	0.0	305	0.0	(181)	0.0
Oversight						
Allegations & Investigations	0	0.1	0	0.4	0	(0.3)
Enforcement	0	0.0	0	0.0	0	0.0
Event Evaluation	860	2.7	1,152	3.9	(292)	(1.2)
Inspection	6.3	2.2	6.3	3.9	0	(1.7)
IT Infrastructure	645.9	0.0	0	0.0	645.9	0.0
Rulemaking						
Rulemaking	0	4.6	0	2.7	0	1.9
Rulemaking Support	0	2.5	0	2.2	0	0.3
State Tribal and Federal Programs						
Agreement States	0	1.0	0	0.0	0	1.0
Liaison	0	1.4	0	0.9	0	0.5
Training						
Mission Training	682	1.7	848	1.7	(166)	0.0
Total Direct Resources	2,560.2	25.6	2,583.5	32.2	(23.3)	(6.6)
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: DECOMMISSIONING AND LOW LEVEL WASTE						
PRODUCT LINE/PRODUCTS:						
Licensing						
Uranium Recovery Enviromental Reviews	0	1.0	0	1.0	0	0.0
Uranium Recovery Lic. Actions	0	1.5	0	2.0	0	(0.5)
Total Direct Resources	0	2.5	0	3.0	0	(0.5)
Grand Total Nuclear Materials & Waste Safety	2,888.2	28.1	2,743.5	35.2	144.7	(7.1)
TOTAL AGREEMENT STATE REGULATORY SUPPORT	2,888.2	28.1	2,743.5	35.2	144.7	(7.1)
Total value of budgeted resources for fee class(mission direct FTE x full cost of FTE + mission direct contract $)	$14,684		$17,364		($2,680)	

Mission Direct Budgeted Resources Allocated to
In-situ Leach Facilities Rulemaking, Unregistered General Licensees, MOLY 99 and Fellowships Scholarships
Fee-Relief Category

	FY19		FY18		Difference	
	Contract ($,K)	FTE	Contract ($,K)	FTE	Contract ($,K)	FTE
PROGRAM: NUCLEAR REACTOR SAFETY						
BUSINESS LINE: OPERATING REACTORS						
PRODUCT LINE/PRODUCTS:						
Licensing						
Research & Test Reactors	243	12.3	616	6.9	(373)	5.4
Oversight					0	0.0
Research & Test Reactor Inspection	0	0.0	0	1.0	0	(1.0)
Training						
Mission Training	17	0.0	0	0.0	17	0.0
Total Direct Resources	260	12.3	616	7.9	(356)	4.4
Grand Total Nuclear Reactor Safety	260	12.3	616	7.9	(356)	4.4
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: NUCLEAR MATERIALS USERS						
PRODUCT LINE/PRODUCTS:						
Licensing						
Licensing Support	289	2.0	289	0.8	1	1.2
Security					0	0.0
Total Direct Resources	289	3.2	289	0.8	1	2.4
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: DECOMMISSIONING AND LOW LEVEL WASTE						
PRODUCT LINE/PRODUCTS:						
Licensing						
Uranium Recovery Env. Reviews	546	1.7	0	0.0	546	1.7
Uranium Recovery Lic. Actions	0	6.9	0	0.0	0	6.9
Rulemaking						
Rulemaking	0	1.4	240	1.5	(240)	(0.1)
Training						
Mission Training	102.2	0.0	0	0.0	102	0.0
Oversight						
Uranium Recovery Inspection	0	1.6	0	0.0	0	1.6
Total Direct Resources	648.5	11.6	240	1.5	409	10.1
Grand Total Nuclear Materials & Waste Safety	938	14.8	529	2.3	409	12.5
PROGRAM: CORPORATE SUPPORT						
Outreach						
MSI Grants	0	0.0	0	0.0	0	0.0
Integrated University Program	15,000	0.0	15,000	0.0	0	0.0
Outreach & Compliance Coord. Pgm.	0	0.0	0	0.0	0	0.0
Grand Total Corporate Support	15,000	0.0	15,000	0.0	0	0.0
TOTAL ISL/MOLY99/GENERAL LICENSEES/FELLOWSHIPS & SCHOLARSHIPS	16,197.5	27.1	16,144.5	10.2	53	16.9
Total value of budgeted resources for fee class(mission direct FTE x full cost of FTE + mission direct contract $)	$27,573		$20,381		$7,192	

Mission Direct Budgeted Resources Allocated to
Remediation of Non-Military Unlicensed Radium Sites

	FY19		FY18		Difference	
	Contract ($,K)	FTE	Contract ($,K)	FTE	Contract ($,K)	FTE
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: DECOMMISSIONING AND LOW LEVEL WASTE						
PRODUCT LINE/PRODUCTS:						
Licensing						
Decomm. Licensing Actions	0	1.9	0	4.1	0	(2.2)
Oversight						
Inspection	0	0.8	0	0.0	0	0.8
Total Direct Resources	0	2.7	0	4.1	0	(1.4)
Grand Total Nuclear Materials & Waste Safety	0	2.7	0	0.0	0	2.7
TOTAL GENERIC LOW LEVEL WASTE	0	2.7	0	4.1	0	(1.4)
Total value of budgeted resources for fee class(mission direct FTE x full cost of FTE + mission direct contract $)	$1,133		$1,703		($570)	

Mission Direct Budgeted Resources Allocated to
Department of Defense Remediation program MOU activities

	FY19		FY18		Difference	
	Contract ($,K)	FTE	Contract ($,K)	FTE	Contract ($,K)	FTE
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: DECOMMISSIONING AND LOW LEVEL WASTE						
PRODUCT LINE/PRODUCTS:						
Licensing						
Decomm. Licensing Actions	400	2.8	0	2.8	0	0.0
Oversight						
LLW Regulation & Oversight	0	0.0	0	0.0	0	0.0
Enforcement	0	0.0	0	0.0	0	0.0
Inspection	0	1.2	0	0.0	0	1.2
Mission Training						
Training	0	0.0	0	0.0	0	0.0
NSPDP Training	0	0.0	0	0.0	0	0.0
Rulemaking						
Rulemaking	0	0.0	0	0.0	0	0.0
Rulemaking Support	0	0.0	0	0.0	0	0.0
Total Direct Resources	400	4.0	0	2.8	400	1.2
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: SPENT FUEL STORAGE AND TRANSPORTATION						
PRODUCT LINE/PRODUCTS:						
Total Direct Resources	0	0.0	0	0.0	0	0.0
Grand Total Nuclear Materials & Waste Safety	400	4.0	0	2.8	400	1.2
TOTAL GENERIC LOW LEVEL WASTE	400	4.0	0	2.8	400	1.2
Total value of budgeted resources for fee class(mission direct FTE x full cost of FTE + mission direct contract $)	$2,079		$1,163		$916	

Mission Direct Budgeted Resources Allocated to Generic Decommissioning and Reclaimation Fee-Relief Category

	FY19		FY18		Difference	
	Contract ($,K)	FTE	Contract ($,K)	FTE	Contract ($,K)	FTE
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: DECOMMISSIONING AND LOW LEVEL WASTE						
PRODUCT LINE/PRODUCTS:						
International Activities						
International Cooperation	0	0.0	0	0.0	100	2.7
Licensing						
Decomm. Enviromental Reviews	500	3.0	288	3.0	212	0.0
Decomm. Licensing Actions	439	19.5	1,063	24.3	(624)	(4.8)
Mission IT	62	0.0	45	0.0	17	0.0
Uranium Recovery Lic. Actions	0	1.0	200	2.0	(200)	(1.0)
Mission Training						
NSPDP Training	0	1.0	0	0.0	0	1.0
Oversight						
Inspections	0	4.6	0	7.0	0	(2.4)
Research						
Waste Research	300	1.0	150	1.0	150	0.0
Rulemaking						
Rulemaking	0	4.6	0	1.0	0	3.6
Total Direct Resources	1,301	35.2	1,746	38.3	(445)	(3.1)
Grand Total Nuclear Materials & Waste Safety	1,301	35.2	1,746	38.3	(445)	(3.1)
TOTAL GENERIC DECOMMISSIONING & RECLAIMATION	1,301	35.2	1,746	38.3	(445)	(3.1)
Total value of budgeted resources for fee class(mission direct FTE x full cost of FTE + mission direct contract $)	$13,007		$14,498		($1,491)	

All decommissioning resources for licensees other than Part 50 power reactors and Part 72 licensees--i.e., site specific + generic resources--are allocated to the 'generic decommissioning' Fee-Relief category. OCFO then subtracts from this total the estimated Part 170 decommissioning revenue from these licensees. By definition, what's left is 'generic.'

Mission Direct Budgeted Resources Allocated to Generic Low Level Waste Surcharge Category

	FY19		FY18		Difference	
	Contract ($,K)	FTE	Contract ($,K)	FTE	Contract ($,K)	FTE
PROGRAM: NUCLEAR REACTOR SAFETY						
BUSINESS LINE: OPERATING REACTORS						
PRODUCT LINE/PRODUCTS:						
Oversight					0	0.0
Mission IT	18	0.0	0	0.0	18	0.0
Total Direct Resources	18	0.0	0	0.0	18	0.0
Grand Total Nuclear Reactor Safety	18	0.0	0	0.0	18	0.0
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: DECOMMISSIONING AND LOW LEVEL WASTE						
PRODUCT LINE/PRODUCTS:						
Licensing						
Policy Outreach	0	0.5	0	0.0	0	0.5
Oversight						
LLW Regulation & Oversight	111	5.0	136	5.0	(25)	0.0
Rulemaking						
Rulemaking	100	3.0	188	1.5	(88)	1.5
Rulemaking Support	0	0.0	0	1.0	0	(1.0)
Total Direct Resources	211	8.5	324	7.5	(113)	1.0
Grand Total Nuclear Materials & Waste Safety	211	8.5	324	7.5	(113)	1.0
TOTAL GENERIC LOW LEVEL WASTE	229	8.5	324	7.5	(95)	1.0
Total value of budgeted resources for fee class(mission direct FTE x full cost of FTE + mission direct contract $)	$3,797		$3,439		$358	

Part 171 Annual Fees

Operating Power Reactors

Section II.B.2.a

Table VI

The budgeted costs to be recovered through annual fees to power reactors are divided equally among the 98 power reactors licensed to operate. This results in a FY 2019 annual fee of $4,669,000 per reactor. Additionally, each power reactor licensed to operate would be assessed the FY 2019 spent fuel storage/reactor decommissioning annual fee of $152,000. This results in a total FY 2019 annual fee of $4,821,000 for each power reactor licensed to operate.

Note: The NRC amended its licensing, inspection and annual fee regulations to establish a variable annual fee structure for light-water small modular reactors (SMR) on May 24, 2016. Under the variable annual fee structure, an SMR's annual fee would be calculated as a function of its licensed thermal power rating. This fee methodology complies with OBRA-90, as amended. Currently, there are no operating SMRs; therefore, the NRC will not propose an annual fee in FY 2019 for this type of licensee.

FY 2019 MISSION DIRECT BUDGETED RESOURCES	TOTAL		POWER REACTORS ALLOCATIONS	
	CONTRACT $,K	FTE	CONTRACT $,K	FTE
NUCLEAR REACTOR SAFETY	113,923.0	1,863.0	78,044.9	1,406.9
NUCLEAR MATERIALS & WASTE SAFETY (no HLW/Gen Fund)	18,921.0	464.0	121.7	3.4
CORPORATE	183,545.0	609.0	0.0	0.0
INSPECTOR GENERAL(no DNSFB)	1,414.0	58.0		
SUBTOTAL - FEE BASE RESOURCE	317,803.0	2,994.0	78,166.6	1,410.3

Figures below in $, M (unless otherwise indicated)	
(1) FY 2019 ALLOCATIONS: equals $, K + FTE*FTE rate (shown below)	670.2
(2) LESS ESTIMATED PART 170 FEE COLLECTIONS	217.7
(3) PART 171 ALLOCATIONS (equals 1 - 2)	452.5
(4) GENERIC TRANSPORTATION RESOURCES (allocated)	0.2
(5) NET PART 171 ALLOCATIONS (after transportation allocated)(equals 3+4)	452.7
(6) FY 2019 TOTAL ALLOCATIONS (after transportation allocation) (equals 2+5)	670.4
(7) % OF BUDGET (% total allocations, excl. fee-relief activities, import/export alloc, small entity)	86.66%
(8) Fee-Relief Adjustment (includes small entity) + LLW Surcharge	3.4
(9) Fee-Relief Adjustment and LLW Surcharge per licensee	0.03
(10) Part 171 billing adjustments	1.5
(11) Adjustments	0.000
(12) TOTAL FY 2019 ANNUAL FEE (equals 5+8+10+11)	457.6
(13) Number of Licensees	98
(14) Fee Per License (equals 12/13)	4.67
unrounded annual fee amount per license, actual $	4,669,268
rounded annual fee, actual $	4,669,000

FTE FULLY COSTED RATE (average based on budget data, actual $): See Determination of Hourly Rate for calculations	419,767			

Mission Direct Budgeted Resources Allocated to Power Reactors Fee Class

	FY19		FY18		Difference	
	Contract ($,K)	FTE	Contract ($,K)	FTE	Contract ($,K)	FTE
PROGRAM: NUCLEAR REACTOR SAFETY						
BUSINESS LINE: NEW REACTORS						
PRODUCT LINE / PRODUCTS:						
International Activities						
International Cooperation	0	0.0	0	0.0	0	0.0
Licensing						
Advanced Reactors	0	0.0	0	0.0	0	0.0
Combined Licenses	0	7.0	0	1.0	0	6.0
Design Certification	1,840	59.0	2,408	68.0	(568)	(9.0)
Early Site Permit	480	14.0	1,380	17.0	(900)	(3.0)
EDO Operations	0	1.0	0	0.0	0	1.0
Emergency Preparedness	0	0.0	0	0.0	0	0.0
Fukushima NTTF	0	0.0	0	0.0	0	0.0
IT Infrastructure	1,451	0.0	0	0.0	1,451	0.0
Licensing Actions	150	22.0	325	23.0	(175)	(1.0)
Licensing Support	2,097	32.0	2,827	54.0	(730)	(22.0)
Mission IT	2,432	5.0	1,999	5.0	433	0.0
New Reactor Facilities	0	0.0	0	0.0	0	0.0
NSPDP Training	0	1.0	0	2.0	0	(1.0)
Operator Licensing	0	11.0	0	11.0	0	0.0
Pre-Application Reviews	0	9.0	0	6.0	0	3.0
Part 50	0	6.0	0	0.0	0	6.0
Security	0	0.0	0	0.0	0	0.0
Oversight						
Allegations & Investigations	0	8.9	0	8.9	0	0.0
Construction Inspection	210	38.0	210	37.0	0	1.0
Emergency Preparedness	0	1.0	0	1.0	0	0.0
Enforcement	6	3.0	6	3.0	0	0.0
Mission IT	0	0.0	0	0.0	0	0.0
NSPDP Training	0	1.0	0	1.0	0	0.0
Part 50	0	4.0	0	0.0	0	4.0
Security	600	4.0	600	4.0	0	0.0
Vendor Inspection	60	15.0	40	20.0	20	(5.0)
Research						
Adv. Reactors Research	0	0.0	0	0.0	0	0.0
Long term Research	0	0.0	0	0.0	0	0.0
New Reactors Research	2,685	11.0	3,236	12.0	(551)	(1.0)
Rulemaking (PL)						
Rulemaking	0	9.0	100	7.0	(100)	2.0
Security	0	0.0	0	0.0	0	0.0
Rulemaking Support	0	1.0	0	1.0	0	0.0
Training						
Mission Training	1,045	9.0	1,021	10.0	24	(1.0)
Mission IT	30	0.0	30	0.0	0	0.0
NSPDP Training	0	0.0	0	0.0	0	0.0
Total Direct Resources	13,086	271.9	14,182	291.9	(1,096)	(20.0)
PROGRAM: NUCLEAR REACTOR SAFETY						
BUSINESS LINE: OPERATING REACTORS						
PRODUCT LINE/PRODUCTS:						
Event Response						
Mission IT	7,485	14.0	7,010	11.0	475	3.0
Other Response Activities	1,607	0.0	0	0.0	1,607	0.0
Response Operations	125	19.0	175	19.0	(50)	0.0
Response Program	0	15.0	0	15.0	0	0.0
International Activities						
International Cooperation	0	0.0	0	0.0	0	0.0
Licensing						
EDO Operations	0	3.0	0	0.0	0	3.0
Emergency Preparedness	0	8.0	0	10.0	0	(2.0)
Generic Issues Program	0	0.0	0	0.0	0	0.0
Fukushima NTTF/Japan Lessons Learned	650	21.0	1,650	35.0	(1,000)	(14.0)
License Renewal	589	38.0	960	39.0	(371)	(1.0)
Licensing Actions	5,339	164.0	4,199	160.0	1,140	4.0
Licensing Support	4,456	59.0	3,956	55.0	500	4.0
Mission IT	150	0.0	244	0.0	(94)	0.0
NSPDP Training	0	4.0	0	4.0	0	0.0
Operator Licensing	405	35.0	255	35.0	150	0.0
Policy Outreach	0	3.0	0	0.0	0	3.0
Research & Test Reactors	0	0.0	0	0	0	0.0
RIC	718	2.0	0	0	718	2.0
Security	250	13.0	750	13	(500)	0.0

Mission Direct Budgeted Resources Allocated to Power Reactors Fee Class

	FY19		FY18		Difference	
	Contract ($,K)	FTE	Contract ($,K)	FTE	Contract ($,K)	FTE
Oversight						
Allegations & Investigations	25	53.9	25	49.9	0	4.0
Emergency Preparedness	0	20.0	0	21.0	0	(1.0)
Enforcement	116	15.7	116	16.6	0	(0.9)
Event Evaluation	0	36.0	0	41.0	0	(5.0)
Fukushima NTTF	0	7.0	0	5.0	0	2.0
Inspection	2,878	330.0	2,547	329.0	331	1.0
IT Infrastructure	5,030	0.0	0	0.0	5,030	0.0
Mission IT	3,765	6.0	3,039	6.0	726	0.0
NSPDP Training	0	4.0	0	5.0	0	(1.0)
Research & Test Reactor Insp.	0	0.0	0	0.0	0	0.0
Security	3,755	57.0	3,659	58.0	96	(1.0)
Vendor Inspection	0	2.0	0	2.0	0	0.0
Research						
Consequence Analysis & Hlth Effects	0	0.0	0	0.0	0	0.0
Aging & Materials Research	4,991	20.0	6,319	20.0	(1,328)	0.0
Digital I&C & Electrical Res.	0	0.0	0	0.0	0	0.0
Engineering Research	3,483	24.0	5,910	24.0	(2,427)	0.0
Fire Safety Research	0	0.0	0	0.0	0	0.0
Fukushima NTTF	0	0.0	0	0.0	0	0.0
Generic Issues & Oper. Exp.	0	4.0	225	4.0	(225)	0.0
International Research	0	0.0	0	0.0	0	0.0
Longterm Research	0	0.0	0	0.0	0	0.0
Materials Performance Research	0	0.0	0	0.0	0	0.0
Mission IT	3,260	3.0	1,797	2.0	1,463	1.0
NSPDP Training	0	2.0	0	2.0	0	0.0
Operational Events Analysis	0	0.0	0	0.0	0	0.0
Reactor Research	0	7.0	0	7.0	0	0.0
Reactor Safety Codes & Analysis	0	0.0	0	0.0	0	0.0
Risk Analysis	8,071	51.0	11,053	51.0	(2,982)	0.0
Systems Analysis Research	2,842	22.0	3,842	19.0	(1,000)	3.0
Seismic & Structural Research	0	0.0	0	0.0	0	0.0
Rulemaking (PL)						
Fukushima NTTF/Japan Lessons Learned	0	0.0	0	0.0	0	0.0
Rulemaking	730	29.0	730	32.0	0	(3.0)
Emergency Preparedness	0	0.0	0	0.0	0	0.0
Rulemaking Support	200	18.0	350	16.0	(150)	2.0
Security	0	0.0	0	0.0	0	0.0
Training						
Business Process Improvements	0	0.6	0	0.0	0	0.6
Fukushima NTTF/Japan Lessons Learned	0	0.0	0	0.0	0	0.0
Mission IT	763	0.0	116	0.0	647	0.0
Mission Training	3,276	24.8	3,554	24.8	(278)	0.0
NSPDP Training	0	0.0	0	0.0	0	0.0
Total Direct Resources	64,959	1135.0	62,481	1,131.3	2,478	3.7
Grand Total Nuclear Reactor Safety	78,045	1406.9	76,663	1,423.2	1,382	(16.3)
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: FUEL FACILITIES						
PRODUCT LINE/PRODUCTS:						
Research						
Materials Research	0	0.0	0	0.0	0	0.0
Total Direct Resources	0	0.0	0	0.0	0	0.0
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: NUCLEAR MATERIALS USERS						
PRODUCT LINE/PRODUCTS:						
International Activities						
Multilateral/Bilateral	0	0.0	0	0.0	0	0.0
Oversight						0.0
Inspection	6	0.0	6	0.0	0	0.0
Rulemaking						0.0
Rulemaking	0	0.0	0	0.0	0	0.0
State, Tribal and Federal Programs						
Liaison	0	0.8	0	1.0	0	(0.2)
Training						0.0
Mission Training	116	0.2	145	0.2	(29)	0.0
Total Direct Resources	122	1.0	151	1.2	(29)	(0.2)

Mission Direct Budgeted Resources Allocated to Power Reactors Fee Class

	FY19		FY18		Difference	
	Contract ($,K)	FTE	Contract ($,K)	FTE	Contract ($,K)	FTE
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: DECOMMISSIONING AND LOW LEVEL WASTE						
PRODUCT LINE/PRODUCTS:						
Licensing						
Decomm. Licensing Actions	0	1.0	0	1.0	0	0.0
Uranium Recovery Env. Reviews	0	0.0	0	0.0	0	0.0
Uranium Recovery Lic. Actions	0	0.0	0	0.0	0	0.0
Mission Training						
Training	0	0.0	7	0.0	(7)	0.0
Total Direct Resources	0	1.0	7	1.0	(7)	0.0
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: SPENT FUEL STORAGE AND TRANSPORTATION						
PRODUCT LINE/PRODUCTS:						
International Activities						
International Cooperation	0	0.0	0	0.0	0	0.0
Licensing						
Emergency Preparedness	0	0	0	0	0	0.0
Environmental Reviews	0	0	0	0	0	0.0
Licensing Support	0	0	0	0	0	0.0
Mission IT	0	0	0	0	0	0.0
Security	0	0	0	0	0	0.0
Storage Licensing	0	1.0	0	1	0	0.0
Transportation Certification	0	0	0	0	0	0.0
Research						
Waste Research	0	0.0	0	0.0	0	0.0
Rulemaking (PL)						
Rulemaking	0	0.4	293	0.8	(293)	(0.4)
Travel						
Mission Travel	0	0.0	0	0.0	0	0.0
Training						
Mission Training	0	0	0	0	0	0.0
Total Direct Resources	0	1.4	293	1.8	(293)	(0.4)
Grand Total Nuclear Materials & Waste Safety	121.7	3.4	451	4.0	(329)	(0.6)
TOTAL POWER REACTORS	78,166.6	1,410.3	77,114	1,427.2	1,053	(16.9)
Total value of budgeted resources for fee class(mission direct FTE x full cost of FTE + mission direct contract $)	670,164		669,908		$256	

The budgetary resources allocated to Power Reactors Fee Class from Nuclear Materials & Waste Safety Program include (but are not limited to) activities pertaining to analysis, data collection, modeling future strategies for disposal of spent fuel and high level waste and monitoring developments in the evolving national waste management strategy. In addition to tribal program activities, dosimeter costs and materials training widely attended by all agency staff including inspectors benefitting numerous facets of the agency's mission.

OPERATING POWER REACTOR ANNUAL FEE
FY 2019

NUMBER OF POWER REACTORS LICENSED TO OPERATE:
(by Nuclear Steam System Supplier & Design Type)

Westinghouse	48
General Electric	33
Combustion Engineering	11
Babcock & Wilcox	6
TOTAL REACTORS	98

DETERMINATION OF ANNUAL FEE:

TOTAL BUDGETED COSTS FOR OPERATING POWER REACTORS (INCLUDES NON-FEE ACTIVITIES)	$670,163,790
ANNUAL FEE PER REACTOR (rounded) (BUDGETED COSTS DIVIDED BY 98 OPERATING POWER REACTORS)	$ 4,669,000
PLUS SPENT FUEL STORAGE/ REACTOR DECOMMISSIONING ANNUAL FEE	$152,000
TOTAL ANNUAL FEE PER LICENSE	$ 4,821,000

Part 171 Annual Fees

Spent Fuel Storage/Reactor Decommissioning

Section II.B.2.b

Table VII

For FY 2019, budgeted costs of approximately $18.6 million for spent fuel storage/reactor decommissioning are to be recovered through annual fees assessed to part 50 power reactors, and to part 72 licensees who do not hold a part 50 license. Those reactor licensees that have ceased operations and have no fuel onsite are not subject to these annual fees. The required annual fee recovery amount is divided equally among 122 licensees, resulting in a FY 2019 annual fee of $152,000 per licensee.

FY 2019 MISSION DIRECT BUDGETED RESOURCES				
			SPENT FUEL STORAGE/ REACTOR DECOMM.	
	TOTAL		ALLOCATIONS	
	CONTRACT $,K	FTE	CONTRACT $,K	FTE
NUCLEAR REACTOR SAFETY	113,923.0	1,863.0	8.1	0.4
NUCLEAR MATERIALS & WASTE SAFETY (no HLW/Gen Fund)	18,921.0	464.0	2,757.2	77.8
CORPORATE	183,545.0	609.0	0.0	0.0
INSPECTOR GENERAL(no DNSFB)	1,414.0	58.0		
SUBTOTAL - FEE BASE RESOURCE	317,803.0	2,994.0	2,765.3	78.2

Figures below in $, M (unless otherwise indicated)	
(1) FY 2019 ALLOCATIONS: equals $, K + FTE*FTE rate (shown below)	35.6
(2) LESS ESTIMATED PART 170 FEE COLLECTIONS	17.8
(3) PART 171 ALLOCATIONS (equals 1 - 2)	17.8
(4) GENERIC TRANSPORTATION RESOURCES (allocated)	0.7
(5) NET PART 171 ALLOCATIONS (after transportation allocated)(equals 3+4)	18.5
(6) FY 2019 TOTAL ALLOCATIONS (after transportation allocation) (equals 2+5)	36.3
(7) % OF BUDGET (% total allocations, excl. fee-relief activities, import/export alloc, small entity)	4.69%
(8) Fee-Relief Adjustment (includes small entity) + LLW Surcharge	0.0
(9) Fee-Relief Adjustment and LLW Surcharge per licensee	0.00
(10) Part 171 billing adjustments	0.1
(11) Adjustments	0.000
(12) TOTAL FY 2019 ANNUAL FEE (equals 5+8+10+11)	18.6
(13) Number of Licensees	122
(14) Fee Per License (equals 12/13)	0.152
unrounded annual fee amount per license, actual $	152,186
rounded annual fee, actual $	152,000
FTE FULLY COSTED RATE (average based on budget data, actual $): See Determination of Hourly Rate for calculations	419,767

Mission Direct Budgeted Resources Allocated to Spent Fuel Storage/Reactor Decommissioning Fee Class

	FY19		FY18		Difference	
	Contract ($,K)	FTE	Contract ($,K)	FTE	Contract ($,K)	FTE
PROGRAM: NUCLEAR REACTOR SAFETY						
BUSINESS LINE: NEW REACTORS						
PRODUCT LINE / PRODUCTS:						
Oversight						
Allegations & Investigations	0.0	0.1	0.1	0.1	(0.1)	0.0
Total Direct Resources	0.0	0.1	0.1	0.1	(0.1)	0.0
PROGRAM: NUCLEAR REACTOR SAFETY						
BUSINESS LINE: OPERATING REACTORS						
PRODUCT LINE/PRODUCTS:						
Training						
Business Process Improvement	0.0	0.1	0.0	0.0	0.0	0.1
Oversight						
Allegations & Investigations	0.0	0.1	0.0	0.1	0.0	0.0
Enforcement	1.2	0.1	1.2	0.2	0.0	(0.1)
Mission IT	6.9	0.0	0.8	0.0	0.0	0.0
Total Direct Resources	8.1	0.3	2.0	0.3	6.1	0.0
Grand Total Nuclear Reactor Safety	8.1	0.4	2.0	0.4	6.1	0.0
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: NUCLEAR MATERIALS USERS						
PRODUCT LINE/PRODUCTS:						
Licensing						
EDO Operations	0.0	0.5	0.0	0.0	0.0	0.5
Oversight						
Allegations & Investiagtions	0.0	0.0	0.0	0.1	0.0	(0.1)
Enforcement	2.0	0.4	2.0	0.4	0.0	0.0
Inspection	5.7	0.0	5.7	0.0	0.0	0.0
Rulemaking						
Rulemaking	0.0	0.0	0.0	0.0	0.0	0.0
Training						
Mission Training	24.0	0.2	30.0	0.0	(6.0)	0.2
Total Direct Resources	31.7	1.1	37.7	0.5	(6.0)	0.6
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: DECOMMISSIONING AND LOW LEVEL WASTE						
PRODUCT LINE/PRODUCTS:						
Licensing						
Decommissioning Licensing Actions	0.0	6.0	0.0	1.0	0.0	5.0
IT Infrastructure	312.0	0.0	0.0	0.0	312.0	0.0
Oversight						
Inspection	0.0	6.4	0.0	6.3	0.0	0.1
Training						
Mission Training	183.0	0.0	240.0	0.0	(57.0)	0.0
Total Direct Resources	495.0	12.4	240.0	7.3	255.0	5.1
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: SPENT FUEL STORAGE AND TRANSPORTATION						
PRODUCT LINE/PRODUCTS:						
Licensing						
Emergency Preparedness	0.0	1.0	0.0	1.0	0.0	0.0
Environmental Reviews	117.0	6.0	2,207.0	4.0	(2,090.0)	2.0
Fukushima NTTF	0.0	0.0	0.0	0.0	0.0	0.0
IT Infrastructure	182.5	0.0	0.0	0.0	182.5	0.0
Licensing Actions	155.0	3.0	155.0	1.0	0.0	2.0
Licensing Support	553.0	8.8	468.0	11.0	85.0	(2.2)
Mission IT	257.0	0.6	344.0	0.6	(87.0)	0.0
NSPDP Training	0.0	0.5	0.0	0.0	0.0	0.5
Policy Outreach	0.0	0.5	0.0	0.0	0.0	0.5
Security	0.0	3.0	0.0	3.0	0.0	0.0
Storage Licensing	300.0	23.0	45.0	23.0	255.0	0.0
Oversight						
Security	0.0	3.0	0.0	3.0	0.0	0.0
Inspection	0.0	8.5	0.0	8.5	0.0	0.0

Mission Direct Budgeted Resources Allocated to Spent Fuel Storage/Reactor Decommissioning Fee Class

	FY19		FY18		Difference	
	Contract ($,K)	FTE	Contract ($,K)	FTE	Contract ($,K)	FTE
Research						
Waste Research	615.0	2.0	730.0	2.0	(115.0)	0.0
Rulemaking						
Rulemaking (PL)	0.0	4.0	0.0	4.0	0.0	0.0
Rulemaking Support	0.0	0.4	32.0	0.8	(32.0)	(0.4)
Training						
Mission Training	51.0	0.0	15.0	0.0	36.0	0.0
Total Direct Resources	2,230.5	64.3	3,996.0	62.9	(1,765.5)	1.4
Grand Total Nuclear Materials & Waste Safety	2,757.2	77.8	4,273.7	70.7	(1,516.5)	7.1
TOTAL SPENT FUEL STORAGE & REACTOR DECOMM.	2,765.3	78.2	4,275.7	71.1	(1,510.4)	7.1
Total value of budgeted resources for fee class(mission direct FTE x full cost of FTE + mission direct contract $)	35,591.1		33,807.4		1,783.6	

SPENT FUEL STORAGE/REACTOR DECOMMISSIONING
ANNUAL FEE
FY 2019

LICENSES SUBJECT TO THE ANNUAL FEE:

Operating Power Reactor Licensees: 98

Power Reactors in Decommissioning or Possession Only Status with Fuel Onsite

Reactor	Docket No.
Big Rock Point	50-155
Indian Point, Unit 1	50-003
Dresden, Unit 1	50-010
Haddam Neck	50-213
Humboldt	50-133
La Crosse	50-409
Maine Yankee	50-309
Millstone 1	50-245
Rancho Seco	50-312
San Onofre, Unit 1	50-206
Yankee Rowe	50-029
Zion 1	50-295
Zion 2	50-304
Crystal River 3	50-302
Kewaunee	50-305
San Onofre, Unit 2	50-361
San Onofre, Unit 3	50-362
Vermont Yankee	50-271
Fort Calhoun	50-285
Oyster Creek	50-219

Total No. of Reactors in decommissioning or possession only status with fuel onsite: 20

Part 72 Licensees without a Part 50 License

Ft. St. Vrain	72-009
GE Morris	72-001
Foster Wheeler Environmental Corp.	72-025
Trojan	72-017

Total Part 72 licenses: 4

The annual fee is determined by dividing the total budgeted costs of approximately $18.6 million (including the fee-relief activities) by the total number of licensees (122). This results in an annual fee (rounded) of $152,000 per license.

Part 171 Annual Fees

Fuel Facilities

Section II.B.2.c
Table VIII
Table IX
Table X

The FY 2019 budgeted cost to be recovered in the annual fees assessment to the fuel facility class of licenses [which includes licensees in fee categories 1.A.(1)(a), 1.A.(1)(b), 1.A.(2)(a), 1.A.(2)(b), 1.A.(2)(c), 1.E., and 2.A.(1), under §171.16] is approximately $24.5 million. This value is based on the full cost of budgeted resources associated with all activities that support this fee class, which is reduced by estimated part 170 collections and adjusted for allocated generic transportation resources, and the fee relief surcharge.

FY 2019 MISSION DIRECT BUDGETED RESOURCES				
			FUEL FACILITY	
	TOTAL		ALLOCATIONS	
	CONTRACT		CONTRACT	
	$,K	FTE	$,K	FTE
NUCLEAR REACTOR SAFETY	113,923.0	1,863.0	8.0	0.1
NUCLEAR MATERIALS & WASTE SAFETY (no HLW/Gen Fund)	18,921.0	464.0	2,000.7	66.6
CORPORATE	183,545.0	609.0	0.0	0.0
INSPECTOR GENERAL(no DNSFB)	1,414.0	58.0		
SUBTOTAL - FEE BASE RESOURCE	317,803.0	2,994.0	2,008.7	66.7

Figures below in $, M (unless otherwise indicated)		
(1) FY 2019 ALLOCATIONS: equals $, K + FTE*FTE rate (shown below)		30.0
(2) LESS ESTIMATED PART 170 FEE COLLECTIONS		7.3
(3) PART 171 ALLOCATIONS (equals 1 - 2)		22.7
(4) GENERIC TRANSPORTATION RESOURCES (allocated)		1.2
(5) NET PART 171 ALLOCATIONS (after transportation allocated)(equals 3+4)		23.9
(6) FY 2019 TOTAL ALLOCATIONS (after transportation allocation) (equals 2+5)		31.2
(7) % OF BUDGET (% total allocations, excl. fee-relief activities, import/export alloc, small entity)		4.0%
(8) Fee-Relief Adjustment (includes small entity) + LLW Surcharge		0.5
(9) Fee-Relief Adjustment and LLW Surcharge per licensee		
(10) Part 171 billing adjustments		0.1
(11) Adjustments		0.000
(12) TOTAL FY 2019 ANNUAL FEE (equals 5+8+10+11)		24.5
(13) Number of Licensees		different for different categories of licenses; see other worksheets
(14) Fee Per License (equals 12/13)		
unrounded annual fee amount per license, actual $		
rounded annual fee, actual $		

FTE FULLY COSTED RATE (average based on budget data, actual $): See Determination of Hourly Rate for calculations	419,767

Mission Direct Budgeted Resources for
Fuel Facilities Fee Class

	FY19		FY18		Difference	
	Contract ($,K)	FTE	Contract ($,K)	FTE	Contract ($,K)	FTE
PROGRAM: NUCLEAR REACTOR SAFETY						
BUSINESS LINE: OPERATING REACTORS						
PRODUCT LINE/PRODUCTS:						
Oversight						
Mission IT	8.0	0.0	0	0.0	8	0.0
Training						
Business Process Improvements	0	0.1	0	0.0	0	0.1
Total Direct Resources	8.0	0.1	0	0.0	8	0.1
Grand Total Nuclear Reactor Safety	8.0	0.1	0	0.0	8	0.1
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: FUEL FACILITIES						
PRODUCT LINE/PRODUCTS:						
Event Response						
Response Operations	30	2.0	30	2.0	0	0.0
Licensing						
Emergency Preparedness	0	0.0	0	1.0	0	(1.0)
Environmental Reviews	0	0.0	300	1.0	(300)	(1.0)
Fukushima NTTF	0	0.0	0	0.0	0	0.0
Licensing Actions	955	23.0	412	27.0	543	(4.0)
Policy Outreach	0	1.0	0	0.0	0	1.0
Security	0	3.0	0	2.0	0	1.0
Oversight						
Enforcement	10	2.0	10	3.0	0	(1.0)
Inspection	0	25.0	0	30.0	0	(5.0)
IT Infrastructure	367	0.0	0	0.0	367	0.0
NSPDP Training	0	0.0	0	1.0	0	(1.0)
Mission IT	9	0.0	0	0.0	9	0.0
Security	312	6.0	312	7.0	0	(1.0)
Rulemaking (PL)						
Rulemaking	0	4.0	23	7.0	(23)	(3.0)
Training						
Mission Training	253	0.0	125	0.0	128	0.0
Total Direct Resources	1,936.0	66.0	1,212	81.0	724	(15.0)
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: NUCLEAR MATERIALS USERS						
PRODUCT LINE/PRODUCTS:						
Oversight						
Inspection	6	0.0	6	0.0	(0)	0.0
State Tribal and Federal Programs						
Liaison	0	0.4	0	0.5	0	(0.1)
Training						
Mission Training	43	0.2	53	0.2	(10.0)	0.0
Total Direct Resources	48.7	0.6	59.0	0.7	(10.3)	(0.1)
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: DECOMMISSIONING AND LOW LEVEL WASTE						
PRODUCT LINE/PRODUCTS:						
Training						
Mission Training	16	0.0	13	0.0	3	0.0
Total Direct Resources	16.0	0.0	13.0	0.0	3	0.0
Grand Total Nuclear Materials & Waste Safety	2,000.7	66.6	1,284.0	81.7	717	(15.1)
TOTAL FUEL FACILITY	2,008.7	66.7	1,284	81.7	725	(15.0)
Total value of budgeted resources for fee class(mission direct FTE x full cost of FTE + mission direct contract $)	30,007		35,218		($5,211)	

USING 3/19 MATRIX

FUEL FACILITY ANNUAL FEES
FY 2019

Part 171 Amount	$23,901,266
Less Billing Adjustment	68,472
Less Recission Adjustment	0
TOTAL	$23,969,737

	SAFETY	SAFEGUARDS	TOTAL	FEE-RELIEF	TOTAL ANNUAL FEE
Allocation of Part 171 Amount to Safety/Safeguards	$13,592,595	$10,377,142	$23,969,737	$492,436	$24,462,174

EFFORT FACTORS

FEE CATEGORY		NUMBER OF LICENSES	Safety	%	Safeguards	%	Total	%
1A(1)(a)	SSNM (HEU)	2	88	47.3%	91	64.1%	179	54.6%
1A(1)(b)	SNM (LEU)	3	70	37.6%	21	14.8%	91	27.7%
1A(2)(a)	LIMITED OPS (Paducah)	0	0	0.0%	0	0.0%	0	0.0%
1A(2)(b)	OTHERS (Gas centrifuge enrichment demonstration)	0	0	0.0%	0	0.0%	0	0.0%
1A(2)(c)	OTHERS (hot cell facility)	0	0	0.0%	0	0.0%	0	0.0%
1E	ENRICHMENT	1	16	8.6%	23	16.2%	39	11.9%
2A(1)	UF6 (Honeywell)	1	12	6.5%	7	4.9%	19	5.8%
	TOTAL	7	186	100.0%	142	100%	328	100%
	% of total		56.7%		43.3%			

ALLOCATION to CATEGORY

Fee Category			(1)	(2)	(3)	(4)	(5) TOTAL ANNUAL FEE PER LICENSE	FY 2019 Annual Fee Rounded	FY 2018 Annual Fee	% Inc./dec.
1A(1)(a)	SSNM (HEU)	2	$6,430,905	$6,650,141	$13,081,046	$268,738	$6,674,892	**$6,675,000**	**$7,346,000**	-9.1%
1A(1)(b)	SNM (LEU)	3	5,115,493	1,534,648	6,650,141	$136,621	$2,262,254	**$2,262,000**	**$2,661,000**	-15.0%
1A(2)(a)	LIMITED OPS (Paducah)	0	0	0	0	$0	$0	**$0**	**$0**	0.0%
1A(2)(b)	OTHERS (Gas centrifuge enrichment demonstration)	0	0	0	0	$0	$0	**$0**	**$0**	#DIV/0!
1A(2)(c)	OTHERS (hot cell facility)	0	0	0	0	$0	$0	**$0**	**$0**	#DIV/0!
1E	ENRICHMENT	1	1,169,255	1,680,805	2,850,060	$58,552	$2,908,612	**$2,909,000**	**$3,513,000**	-17.2%
2A(1)	UF6 (Honeywell)	1	876,942	511,549	1,388,491	$28,525	$1,417,016	**$1,417,000**	**$1,517,000**	-6.6%
		7	$13,592,595	$10,377,142	$23,969,737	$492,436				

NRC FUEL CYCLE FACILITIES
FY 2019 ANNUAL FEES - EFFORT FACTOR MATRIX

CATEGORY	LICENSEE	DOCKET	FEE CATEGORY	PROCESSES																						TOTAL	
				SOLID UF6/METAL		ENRICHMENT		LIQUID UF6		HEU DOWN BLEND		CONVERSION POWDER		PELLET		ROD/ BUNDLE		SCRAP/ WASTE		HOT CELL		SENSITIVE INFORMATION		SUBTOTALS			
				S	SG	S	SG	S	SG	S	SG	S	SG	S	SG	S	SG	S	SG	S	SG	S	SG	S	SG		
Fuel Fabrication (HEU)	BWXT (SNM-42)	70-00027	1A(1)(a)	10	10	0	0	0	0	5	5	5	5	10	5	5	5	10	5	1	1	1	10	47	46	93	
	NFS (SNM-124)	70-00143	1A(1)(a)	10	10	0	0	0	0	10	10	10	10	0	0	0	0	10	5	0	0	1	10	41	45	86	
Uranium Enrichment	LES (SNM-2010)	70-03103	1E	5	1	5	10	1	1	0	0	0	0	0	0	0	0	5	1	0	0	0	10	16	23	39	
	Centrus ACP (SNM-2011)*	70-07004	1E	5	1	5	10	1	1	0	0	0	0	0	0	0	0	5	1	0	0	0	10	-	-	-	Not in op.
	Global Laser Enrich (SNM-2019)*	70-07016	1E	5	1	5	10	1	1	0	0	0	0	0	0	0	0	5	1	0	0	0	10	-	-	-	Not in op.
Fuel Fabrication (LEU)	Global Nuclear Fuels (SNM-1097)	70-01113	1A(1)(b)	5	1	1	0	1	1	0	0	5	1	5	1	1	1	5	1	0	0	1	1	24	7	31	
	Framatome (SNM-1227)	70-01257	1A(1)(b)	5	1	0	0	1	1	0	0	5	1	5	1	1	1	5	1	0	0	1	1	23	7	30	
	Westinghouse (SNM-1107)	70-01151	1A(1)(b)	5	1	0	0	1	1	0	0	5	1	5	1	1	1	5	1	0	0	1	1	23	7	30	
UF6 Conversion	Honeywell (SUB-526)	40-03392	2A(1)	5	1	0	0	5	5	0	0	1	0	0	0	0	0	1	0	0	0	0	1	12	7	19	
	International Isotopes (SUB-1011)	40-09088	2A(1)	5	1	0	0	5	5	0	0	1	0	0	0	0	0	1	0	0	0	0	1	-	-	-	Not in op.
Enrichment Demonstration	None		1A(2)(b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hot Cell	None		1A(2)(c)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
																								TOTALS		186	142	328	

S = Safety
SG = Safeguards

HIGH =	10
MODERATE=	5
LOW =	1
NONE =	0

Changes from Prior Year:

No Changes	1
New Addition	0

Notes:

1 Centrus ACP is licensed, but not proceeding with construction.
2 Global Laser Enrichment is licensed, but not proceeding with construction.
3 International Isotopes is licensed, but not proceeding with construction.
4 NFS factors for Scrap/Waste changed to be consistent with BWXT.
5 Global Nuclear Fuels effort factors for safeguards made consistent with other LEU facilities.
6 The effort factor for Safety under Solid UF6/Metal was changed from 10 to 5 for all enrichment facilities.

** I hereby agree that the operating licenses noted above are in agreement with the operating and billable licensees in the Web-Based Licensing (WBL) system.

Division Director, FCSE

Part 171 Annual Fees

Uranium Recovery Facilities

Section II.B.2.d

Table XI
Table XII
Table XIII
Table XIV

The total FY 2019 budgeted cost to be recovered through annual fees assessed to the uranium recovery class [which includes licensees in fee categories 2.A.(2)(a), 2.A.(2)(b), 2.A.(2)(c), 2.A.(2)(d), 2.A.(2)(e), 2.A.(3), 2.A.(4), 2.A.(5) and 18.B., under § 171.16], is approximately $171,000 (rounded).

Of the required annual fee collections, $121,000 is assessed to DOE's Uranium Mill Tailings Radiation Control Act (UMTRCA) under fee category 18.B. The remaining $49,000 (rounded) would be recovered through annual fees assessed to the other licensees in this fee class (i.e., conventional mills, in-situ recovery facilities, 11e.(2) mill tailings disposal facilities (incidental to existing tailings sites.)

FY 2019 MISSION DIRECT BUDGETED RESOURCES				
			URANIUM RECOVERY	
	TOTAL		ALLOCATIONS	
	CONTRACT		CONTRACT	
	$,K	FTE	$,K	FTE
NUCLEAR REACTOR SAFETY	113,923.0	1,863.0	0.0	0.0
NUCLEAR MATERIALS & WASTE SAFETY (no HLW/Gen Fund)	18,921.0	464.0	114.5	2.1
CORPORATE	183,545.0	609.0	0.0	0.0
INSPECTOR GENERAL(no DNSFB)	1,414.0	58.0		
SUBTOTAL - FEE BASE RESOURCE	317,803.0	2,994.0	114.5	2.1

Figures below in $, M (unless otherwise indicated)		
(1) FY 2019 ALLOCATIONS: equals $, K + FTE*FTE rate (shown below)		1.0
(2) LESS ESTIMATED PART 170 FEE COLLECTIONS		0.8
(3) PART 171 ALLOCATIONS (equals 1 - 2)		0.2
(4) GENERIC TRANSPORTATION RESOURCES (allocated)		
(5) NET PART 171 ALLOCATIONS (after transportation allocated)(equals 3+4)		0.2
(6) FY 2019 TOTAL ALLOCATIONS (after transportation allocation) (equals 2+5)		1.0
(7) % OF BUDGET (% total allocations, excl. fee-relief activities, import/export alloc, small entity)		0.1%
(8) Fee-Relief Adjustment (includes small entity) + LLW Surcharge		0.0
(9) Fee-Relief Adjustment and LLW Surcharge per licensee		
(10) Part 171 billing adjustments		0.0
(11) Adjustments		0.000
(12) TOTAL FY 2019 ANNUAL FEE (equals 5+8+10+11)		0.2
(13) Number of Licensees		different for different categories of licenses; see other worksheets
(14) Fee Per License (equals 12/13)		
unrounded annual fee amount per license, actual $		
rounded annual fee, actual $		

FTE FULLY COSTED RATE (average based on budget data, actual $): See Determination of Hourly Rate for calculations	419,767

Mission Direct Budgeted Resources for Uranium Recovery Fee Class

	FY19		FY18		Difference	
	Contract ($,K)	FTE	Contract ($,K)	FTE	Contract ($,K)	FTE
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: NUCLEAR MATERIALS USERS						
PRODUCT LINE/PRODUCTS:						
State Tribal and Federal Programs						
Liaison	0	0.0	0	1.0	0	(1.0)
Total Direct Resources	0	0.0	0	1.0	0	(1.0)
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: DECOMMISSIONING AND LOW LEVEL WASTE						
PRODUCT LINE/PRODUCTS:						
Licensing						
Decommissioning Licensing Actions	0	0.8	0	0.8	0	0.0
Uranium Recovery Envir. Reviews	54	0.3	1,946	7.0	(1,892)	(6.7)
Uranium Recovery Lic. Actions	60	0.6	60	14.0	0	(13.4)
Oversight						
Inspection	0	0.4	0	4.7	0	(4.3)
Mission Training						
Training	1	0.0	27	0.0	(26)	0.0
Total Direct Resources	115	2.1	2,033	26.5	(1,919)	(24.4)
Grand Total Nuclear Materials & Waste Safety	114.5	2.1	2,033	27.5	(1,919)	(25.4)
TOTAL URANIUM RECOVERY	114.5	2.1	2,033	27.5	(1,919)	(25.4)
Total value of budgeted resources for fee class(mission direct FTE x full cost of FTE + mission direct contract $)	$996		$13,455		($12,459)	

URANIUM RECOVERY ANNUAL FEES
FY 2019

	TOTAL
TOTAL ANNUAL FEE AMOUNT (excl. fee-relief adjustment):	$170,199
TOTAL FEE-RELIEF ADJUSTMENT:	327
TOTAL:	$170,526

GROUP 1
Calculation of DOE Annual Fee

Fee Category		contract $	FTE	FTE Rate	Less: Part 170 Receipts	Total Fee
18.B.	DOE UMTRCA Budgeted Costs:	$0	0.80	$419,767	-$219,925	$115,888
	10% x (Total Annual Fee Amount (excl. Fee-Relief) less UMTRCA)					$5,431
	10% of Fee-Relief Activities					$33
					Total:	$121,352
					DOE's Annual Fee Rounded:	$121,000

GROUP 2
Calculation of Annual Fee Amount for Remaining UR Licensees

	FY 2019 Total Fee
Remaining Annual Fee Amount (excl. Fee-Relief Adjustment):	$48,880
Remaining Fee Relief Adjustment (90%):	$294
Total:	$49,173

CALCULATION OF ANNUAL FEE AMOUNTS BY CATEGORY:

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)				
Type of Site	Fee Category	Number of Licenses	Category Benefit	Total Benefit Value	Percent	Total base annual fee	Annual Fee Per License Base	Fee Relief	Total	FY 2019 Annual Fee Rounded	FY18 Fee	% Inc./dec.	GRAND TOTAL
Conventional & Heap Leach Mills	2.A.(2)(a)	0	-	-	0%	$0	$0	$0	$0	**$0**	**$38,800**	-100.00%	$0
Basic In-situ Recovery Facilities	2.A.(2)(b)	1	190	190	100%	$48,880	$48,880	$294	$49,173	**$49,200**	**$49,200**	0.00%	$49,173
Expanded In-situ Recovery Facilities	2.A.(2)(c)	0	-	-	0%	$0	$0	$0	$0	**$0**	**$55,700**	-100.00%	$0
In-situ Recovery Resin Facilities	2.A.(2)(d)	0	-	-	0%	$0	N/A	N/A	N/A	N/A	**N/A**	N/A	$0
Resin Toll Milling Facilities	2.A.(2)(e)	0	-	-	0%	$0	N/A	N/A	N/A	N/A	**N/A**	N/A	$0
Facilities for Disposal of 11e(2) Materials	2.A.(3)	0	-	-	0%	$0	N/A	N/A	N/A	N/A	**N/A**	N/A	$0
Disposal Incident to Operation at Licensed Facilities	2.A.(4)	0	-	-	0%	$0	$0	$0	$0	**$0**	**$22,000**	-100.00%	$0
Uranium Water Treatment Facility	2.A.(5)	0	-	-	0%	$0	$0	$0	$0	**$0**	**$6,500**	-100.00%	$0
TOTAL		1	190	190	100%	$48,880							$49,173
												DOE	$121,352
												Total	$170,526

Col. 3= Col. 1 x Col. 2
Col. 5= Col. 4 x Group 2 Total Base Fee
Col. 6= Col. 5 /Col. 1
Col. 7= Col. 4 x Group 2 Fee-Relief Adjustment Amount/Col. 1
Col. 8= Col. 6 + Col. 7

URANIUM RECOVERY MATRIX OF REGULATORY BENEFIT BY CATEGORY OF LICENSEE

includes facilities in ***operational status*** (even if in standby), excludes possession only licensees

TO DETERMINE ANNUAL FEES FOR FY19 FEE RULE

			TYPE OF OPERATING ACTIVITY									
			Operations		Waste Operations		Groundwater Protection					
			weight =		weight =		weight =					
			10		5		10					
Type of Site	Fee Category	No. of Licensees	Benefit	Total Score (=benefit score * weight)	Benefit	Total Score (=benefit score * weight)	Benefit	Total Score (=benefit score * weight)	Total Score, all activities	Total Score, all Licensees per category	Percent total Annual Fee, per Licensee	
Conventional and Heap Leach Mills	2(A)2a	0	0	0	0	0	0	0	0	0	0%	0.0000
Basic In Situ Recovery Facilities	2(A)2b	1	9	90	2	10	9	90	190	190	100%	1.0000
Expanded In Situ Recovery Facilities	2(A)2c	0	0	0	0	0	0	0	0	0	0%	0.0000
In-situ Recovery Resin Facilities	2(A)2d	0	0	0	0	0	0	0	0	0	0%	0.0000
Resin Toll Milling Facilities	2(A)2e	0	0	0	0	0	0	0	0	0	0%	0.0000
Facilities for Disposal of 11e(2) Materials	2(A)3	0	0	0	0	0	0	0	0	0	0%	0.0000
Disposal Incident to Operation at Licensed Facilities	2(A)4	0	0	0	0	0	0	0	0	0	0%	0.0000
Uranium Water Treatment Facility	2(A)5	0	0	0	0	0	0	0	0	0	0%	0.0000
Grand Total										190		1.0000

Benefit factors under "Operations", "Waste Operations", and "Groundwater Protection" reflect the regulatory benefit to each licensee in the fee category from generic uranium recovery program activities.

Level of Regulatory Benefit- Scale of 0 to 10 (examples)	
None	0
Minor	2
Some	5
Significant	10

Part 171 Annual Fees

Research and Test Reactors

Section II.B.2.e

Table XV

Approximately $329,000 in budgeted costs is to be recovered through annual fees assessed to the research and test reactor class of licenses for FY 2019. This required annual fee recovery amount is divided equally among the four research and test reactors subject to annual fees, and results in a FY 2019 annual fee of $82,400 for each licensee.

FY 2019 MISSION DIRECT BUDGETED RESOURCES				
			TEST AND RESEARCH REACTORS ALLOCATIONS	
	TOTAL			
	CONTRACT $,K	FTE	CONTRACT $,K	FTE
NUCLEAR REACTOR SAFETY	113,923.0	1,863.0	78.2	1.8
NUCLEAR MATERIALS & WASTE SAFETY (no HLW/Gen Fund)	18,921.0	464.0	0.5	0.0
CORPORATE	183,545.0	609.0	0.0	0.0
INSPECTOR GENERAL(no DNSFB)	1,414.0	58.0		
SUBTOTAL - FEE BASE RESOURCE	317,803.0	2,994.0	78.7	1.8

Figures below in $, M (unless otherwise indicated)		
(1) FY 2019 ALLOCATIONS: equals $, K + FTE*FTE rate (shown below)		0.834
(2) LESS ESTIMATED PART 170 FEE COLLECTIONS		0.538
(3) PART 171 ALLOCATIONS (equals 1 - 2)		0.296
(4) GENERIC TRANSPORTATION RESOURCES (allocated)		0.031
(5) NET PART 171 ALLOCATIONS (after transportation allocated)(equals 3+4)		0.327
(6) FY 2019 TOTAL ALLOCATIONS (after transportation allocation) (equals 2+5)		0.865
(7) % OF BUDGET (% total allocations, excl. fee-relief activities, import/export alloc, small entity)		0.11%
(8) Fee-Relief Adjustment (includes small entity) + LLW Surcharge		0.000
(9) Fee-Relief Adjustment and LLW Surcharge per licensee		0.000
(10) Part 171 billing adjustments		0.002
(11) Adjustments		0.000
(12) TOTAL FY 2019 ANNUAL FEE (equals 5+8+10+11)		0.329
(13) Number of Licensees		4
(14) Fee Per License (equals 12/13)		0.0824
unrounded annual fee amount per license, actual $		82,359
rounded annual fee, actual $		82,400
FTE FULLY COSTED RATE (average based on budget data, actual $): See Determination of Hourly Rate for calculations	419,767	

Mission Direct Budgeted Resources for
Test and Research Reactors Fee Class

	FY19		FY18		Difference	
	Contract ($,K)	FTE	Contract ($,K)	FTE	Contract ($,K)	FTE
PROGRAM: NUCLEAR REACTOR SAFETY						
BUSINESS LINE: NEW REACTORS						
PRODUCT LINE */ PRODUCTS:*						
Oversight						
Enforcement	0.0	0.0	0.1	0.0	(0.1)	0.0
Total Direct Resources	0.0	0.0	0.1	0.0	(0.1)	0.0
PROGRAM: NUCLEAR REACTOR SAFETY						
BUSINESS LINE: OPERATING REACTORS						
PRODUCT LINE/PRODUCTS:						
Licensing						
Research & Test Reactors	70.0	1.4	384.0	3.6	(314.0)	(2.2)
Oversight						
Enforcement	0.1	0.0	0.0	0.0	0.1	0.0
Inspection	0.0	0.4	0.0	0.0	0.0	0.4
Mission IT	0.1	0.0	0.1	0.0	0.0	0.0
Research & Test Reactor Insp.	0.0	0.0	0.0	0.3	0.0	(0.3)
Training						
Mission Training	8.0	0.0	4.0	0.0	4.0	0.0
Total Direct Resources	78.2	1.8	389.0	3.9	(310.8)	(2.1)
Grand Total Nuclear Reactor Safety	78.2	1.8	389.1	3.9	(310.9)	(2.1)
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: NUCLEAR MATERIALS USERS						
PRODUCT LINE/PRODUCTS:						
Oversight						
Inspection	0.5	0.0	1.0	0.0	(0.5)	0.0
Total Direct Resources	0.5	0.0	1.0	0.0	(0.5)	0.0
Grand Total Nuclear Materials & Waste Safety	0.5	0.0	1.0	0.0	(0.5)	0.0
TOTAL TEST & RESEARCH REACTORS	78.7	1.8	390.1	3.9	(311.4)	(2.1)
Total value of budgeted resources for fee class(mission direct FTE x full cost of FTE + mission direct contract $)	834.3		2,009.0		(1,174.7)	

TEST AND RESEARCH REACTOR ANNUAL FEE

FY 2019 FEE RULE

DETERMINATION OF THE FY 2019 ANNUAL FEE:

TEST AND RESEARCH REACTORS SUBJECT TO ANNUAL FEES (See note)

	License No.	Docket No.
1. Dow Chemical - TRIGA MARK I	R-108	50-264
2. AEROTEST	R-98	50-228
3. GE, NTR	R-33	50-73
4. NIST	TR-5	50-184

DETERMINATION OF ANNUAL FEE

BUDGETED COSTS	$329,436
ANNUAL FEE PER LICENSE (rounded) (Budgeted costs divided by number of test and research reactor licensees subject to annual fee)	$82,400

NOTE: Does not include License R-38 (TRIGA MARK I), Docket No. 50-89, issued to General Atomics. License R-38 was amended in 1997 to authorize possession only.

Part 171 Annual Fees

Rare Earth Facilities

Section II.B.2.f

During FY 2016 NRC did receive an application under the Rare Earth fee class 2.A. (2)(f). However, no FY 2019 budgetary resources were allocated to this fee class, and did not require an annual fee to be established.

NRC revised the fee category for this fee class from 2.A.(2)(c) to 2.A.(2)(f) in FY 2009.

NRC eliminated fee category 2.A.(5) Uranium Water Treatment Facility effective with the FY 2019 Fee Rule.

FY 2019 MISSION DIRECT BUDGETED RESOURCES				
	TOTAL		RARE EARTH ALLOCATIONS	
	CONTRACT $,K	FTE	CONTRACT $,K	FTE
NUCLEAR REACTOR SAFETY	113,923.0	1,863.0	0.0	0.0
NUCLEAR MATERIALS & WASTE SAFETY (no HLW/Gen Fund)	18,921.0	464.0	0.0	0.0
CORPORATE	183,545.0	609.0	0.0	0.0
INSPECTOR GENERAL(no DNSFB)	1,414.0	58.0		
SUBTOTAL - FEE BASE RESOURCE	317,803.0	2,994.0	0.0	0.0

Figures below in $, M (unless otherwise indicated)		
(1) FY 2019 ALLOCATIONS: equals $, K + FTE*FTE rate (shown below)		0.00
(2) LESS ESTIMATED PART 170 FEE COLLECTIONS		0.00
(3) PART 171 ALLOCATIONS (equals 1 - 2)		0.00
(4) GENERIC TRANSPORTATION RESOURCES (allocated)		
(5) NET PART 171 ALLOCATIONS (after transportation allocated)(equals 3+4)		0.00
(6) FY 2019 TOTAL ALLOCATIONS (after transportation allocation) (equals 2+5)		0.00
(7) % OF BUDGET (% total allocations, excl. fee-relief activities, import/export alloc, small entity)		0.00%
(8) Fee-Relief Adjustment (includes small entity) + LLW Surcharge		0.000
(9) Fee-Relief Adjustment and LLW Surcharge per licensee		
(10) Part 171 billing adjustments		0.000
(11) Adjustments		0.0000
(12) TOTAL FY 2019 ANNUAL FEE (equals 5+8+10+11)		0.0000
(13) Number of Licensees		different for different categories of licenses; see other worksheets
(14) Fee Per License (equals 12/13)		
unrounded annual fee amount per license, actual $		
rounded annual fee, actual $		
FTE FULLY COSTED RATE (average based on budget data, actual $): See Determination of Hourly Rate for calculations	419,767	

Mission Direct Budgeted Resources for Rare Earth Fee Class

	FY19			FY18			Difference	
	Contract ($,K)	FTE		Contract ($,K)	FTE		Contract ($,K)	FTE
PROGRAM: NUCLEAR REACTOR SAFETY								
BUSINESS LINE: NEW REACTORS								
***PRODUCT LINE** / PRODUCTS:*								
Total Direct Resources	0	0.0		0	0.0		0	0.0
PROGRAM: NUCLEAR REACTOR SAFETY								
BUSINESS LINE: OPERATING REACTORS								
PRODUCT LINE/PRODUCTS:								
Total Direct Resources	0	0.0		0	0.0		0	0.0
Grand Total Nuclear Reactor Safety	0	0.0		0	0.0		0	0.0
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY								
BUSINESS LINE: FUEL FACILITIES								
PRODUCT LINE/PRODUCTS:								
Total Direct Resources	0	0.0		0	0.0		0	0.0
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY								
BUSINESS LINE: NUCLEAR MATERIALS USERS								
PRODUCT LINE/PRODUCTS:								
Total Direct Resources	0	0.0		0	0.0		0	0.0
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY								
BUSINESS LINE: DECOMMISSIONING AND LOW LEVEL WASTE								
PRODUCT LINE/PRODUCTS:								
Licensing								
Decommissioning Licensing Actions	0	0.0		0	0.0		0	0.0
Uranium Recovery Envir. Reviews	0	0.0		0	0.0		0	0.0
Uranium Recovery Lic. Actions	0	0.0		0	0.0		0	0.0
Oversight								
Inspection	0	0.0		0	0.0		0	0.0
Mission Training								
Training	0	0.0		0	0.0		0	0.0
Total Direct Resources	0	0.0		0	0.0		0	0.0
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY								
BUSINESS LINE: SPENT FUEL STORAGE AND TRANSPORTATION								
PRODUCT LINE/PRODUCTS:								
Total Direct Resources	0	0.0		0	0.0		0	0.0
Grand Total Nuclear Materials & Waste Safety	0	0.0		0	0.0		0	0.0
TOTAL RARE EARTH	0	0.0		0	0.0		0	0.0
Total value of budgeted resources for fee class(mission direct FTE x full cost of FTE + mission direct contract $)	$0	$0		$0.0	0.0		$0	0.0

Part 171 Annual Fees

Materials Users

Section II.B.2.g

Table XVI

The following fee categories under §171.16 are included in this fee class: 1.C., 1.D., 1.F., 2.B., 2.F., 3.A. through 3.S., 4.A. through 4.C., 5.A., 5.B., 6.A., 7.A. through 7.C., 8.A., 9.A. through 9.D., 16, and 17. The annual fee for these categories of materials users licenses is developed as follows:

> Annual fee = Constant x [Application Fee + (Average Inspection Cost/ Inspection Priority)] + Inspection Multiplier x (Average Inspection Cost / Inspection Priority) + Unique Category Costs.

To equitably and fairly allocate the $36.4 million in FY 2019 budgeted costs to be recovered in annual fees assessed to the approximately 2,600 diverse materials users licensees, the NRC continues to calculate the annual fees for each fee category within this class based on the 10 CFR part 170 application fees and estimated inspection costs for each fee category. Because the application fees and inspection costs are indicative of the complexity of the material license, this approach provides a proxy for allocating the generic and other regulatory costs to the diverse fee categories. This fee calculation method also considers the inspection frequency (priority), which is indicative of the safety risk and resulting regulatory costs associated with the categories of licenses.

FY 2019 MISSION DIRECT BUDGETED RESOURCES				
	TOTAL		MATERIALS ALLOCATIONS	
	CONTRACT $,K	FTE	CONTRACT $,K	FTE
NUCLEAR REACTOR SAFETY	113,923.0	1,863.0	39.0	0.1
NUCLEAR MATERIALS & WASTE SAFETY (no HLW/Gen Fund)	18,921.0	464.0	638.4	84.1
CORPORATE	183,545.0	609.0	0.0	0.0
INSPECTOR GENERAL(no DNSFB)	1,414.0	58.0		
SUBTOTAL - FEE BASE RESOURCE	317,803.0	2,994.0	677.4	84.2

Figures below in $, M (unless otherwise indicated)		
(1) FY 2019 ALLOCATIONS: equals $, K + FTE*FTE rate (shown below)		36.0
(2) LESS ESTIMATED PART 170 FEE COLLECTIONS		1.1
(3) PART 171 ALLOCATIONS (equals 1 - 2)		35.0
(4) GENERIC TRANSPORTATION RESOURCES (allocated)		1.2
(5) NET PART 171 ALLOCATIONS (after transportation allocated)(equals 3+4)		36.2
(6) FY 2019 TOTAL ALLOCATIONS (after transportation allocation) (equals 2+5)		37.2
(7) % OF BUDGET (% total allocations, excl. fee-relief activities, import/export alloc, small entity)		3.78%
(8) Fee-Relief Adjustment (includes small entity) + LLW Surcharge		0.1
(9) Fee-Relief Adjustment and LLW Surcharge per licensee		
(10) Part 171 billing adjustments		0.1
(11) Adjustments		0.000
(12) TOTAL FY 2019 ANNUAL FEE (equals 5+8+10+11)		36.4
(13) Number of Licensees		different for different categories of licenses; see other worksheets
(14) Fee Per License (equals 12/13)		
unrounded annual fee amount per license, actual $		
rounded annual fee, actual $		

FTE FULLY COSTED RATE (average based on budget data, actual $): See Determination of Hourly Rate for calculations	419,767

Mission Direct Budgeted Resources for Materials Fee Class

	FY19		FY18		Difference	
	Contract ($,K)	FTE	Contract ($,K)	FTE	Contract ($,K)	FTE
PROGRAM: NUCLEAR REACTOR SAFETY						
BUSINESS LINE: OPERATING REACTORS						
PRODUCT LINE/PRODUCTS:						
Oversight						
Mission IT	13.0	0.0	0.0	0.0	13.0	0.0
Training						
Business Process Improvements	0.0	0.1	18.0	0.0	(18.0)	0.1
Mission Training	26.0	0.0	18.0	0.0	8.0	0.0
Total Direct Resources	39.0	0.1	18.0	0.0	21.0	0.1
Grand Total Nuclear Reactor Safety	39.0	0.1	18.0	0.0	21.0	0.1
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: FUEL FACILITIES						
PRODUCT LINE/PRODUCTS:						
Training						
Mission Training	38.0	0.0	19.0	0.0	19.0	0.0
Total Direct Resources	38.0	0.0	19.0	0.0	19.0	0.0
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: NUCLEAR MATERIALS USERS						
PRODUCT LINE/PRODUCTS:						
Event Response						
Response Operations	0.0	0.3	0.0	0.3	0.0	0.0
Response Programs	0.0	0.3	0.0	0.3	0.0	0.0
Licensing						
EDO Operations	0.0	0.5	26.5	24.1	(26.5)	(23.6)
Licensing Actions	13.0	30.7	26.5	24.1	(13.5)	6.6
Licensing Support	45.0	0.0	45.0	0.0	0.0	0.0
Mission IT	20.0	0.0	49.7	0.0	(29.7)	0.0
NSPDP Training	0.0	4.0	0.0	2.0	0.0	2.0
Policy Outreach	0.0	1.0	0.0	0.0	0.0	1.0
Security	0.0	1.0	0.0	1.0	0.0	0.0
Oversight						
Allegations & Investigations	0.0	10.3	0.0	11.0	0.0	(0.7)
Enforcement	41.1	12.0	41.1	10.0	0.0	2.0
Event Evaluation	140.0	1.9	187.5	3.0	(47.5)	(1.1)
Inspection	1.2	17.9	1.2	17.4	0.0	0.5
IT Infrastructure	99.1	0.0	0.0	0.0	99.1	0.0
Research						
Materials Research	0.0	0.3	0.0	0.3	0.0	0.0
Rulemaking						
Rulemaking	0.0	3.1	0.0	3.7	0.0	(0.6)
Rulemaking Support	0.0	0.3	0.0	0.8	0.0	(0.5)
State Tribal and Federal Programs						
Liaison	0.0	0.0	0.0	0.1	0.0	(0.1)
Training						
Mission Training	167.0	0.5	208.0	0.7	(41.0)	(0.2)
NSPDP Training	0.0	0.0	0.0	1.0	0.0	(1.0)
Total Direct Resources	526.4	84.1	559.0	75.7	(32.6)	8.4
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: DECOMMISSIONING AND LOW LEVEL WASTE						
PRODUCT LINE/PRODUCTS:						
Mission Training						
Training	64.0	0.0	20.0	0.0	44.0	0.0
Total Direct Resources	64.0	0	20.0	0.0	44.0	0.0
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: SPENT FUEL STORAGE AND TRANSPORTATION						
PRODUCT LINE/PRODUCTS:						
Mission Training						
Training	10.0	0.0	0.0	0.0	10.0	0.0
Total Direct Resources	10.0	0	0.0	0.0	10.0	0.0
Grand Total Nuclear Materials & Waste Safety	638.4	84.1	598.0	75.7	40.4	8.4
TOTAL MATERIAL USERS	677.4	84.2	616.0	75.7	61.4	8.5
Total value of budgeted resources for fee class(mission direct FTE x full cost of FTE + mission direct contract $)	36,021.8		32,058.0		3,963.8	

FY 2019 Materials Users Annual Fees

REBASELINE

NUMBER OF LICENSES FY 2019

License Fee Category	Billed at FY 2018 Fee	Billed at FY 2019 Fee	Less Agree. State Transfer Adjust	Total For FY 2018	Part 170 Fees($) Appl.	Part 170 Fees($) Insp.	Insp. Prior.	Calc. of General Multiple licenses x (Appl fee + insp fee/insp	Calc. of Insp. Multiple licenses x insp fee/insp priority)	Part 171 Base Fee Per License ($) General multiplier*(Appl fee + insp fee/insp priority) See below for	Unique below for Calculation of	Inspection multiplier*(insp fee/insp priority) See	Total Base Fee per license (General+unique+insp ection)	Adjustment per License LLW Surcharge Materials LLW Surcharge/ no. of	Adjustment per License Fee-Relief multiplier x (appl fee+insp fee/insp priority)See	Total Exact Annual Fee per license (Total Base Fee+ LLW Surcharge + Fee-Relief)	Total Collections Base Fee ($,K)	Total Collections TOTAL ($,K) Total Base Fee + LLW Surcharge + Fee-Relief	Number of Sm Entity	Number of Sm Entity	Real Small Entity Subsidy annual fee and small entity fee x no. of small entities 4500 900	FY 2019 Annual Fee (Rounded)
SPECIAL NUCLEAR MATERIAL:																						
1C. Industrial Gauges	0	4	0	4.0	1,300	2,100	5	6880	1680	2274		806	2,680		1	2,681	12	12	0	0	-	2,900
1D. Other SNM less critical quantity	0	52	0	52.0	2,800	6,400	5	201760	66560	5130		1847	6,977	306	2	7,285	363	370	6	2	29,600	7,300
1F. Other SNM greater than critical quantity	0	3	0	3.0	2,000	1,700	3	9500	1700	4167		816	5,005	306	1	5,312	15	16	2	0	1,600	5,300
SOURCE MATERIAL:																						
2B. Shielding	0	9	0	9.0	1,200	2,800	5	15840	5040	2327		808	3,135		1	3,136	28	28	1	0	-	3,100
2C. Exempt Distribution/SM	0	23	0	23.0	4,300	4,000	5	117300	18400	5744		1164	7,688		2	7,690	182	182	8	1	27,400	7,900
2D. Distribution to General Licenses/SM	0	1	0	1.0	2,800	4,300	5	3060	860	4840		1241	6,080		2	6,082	6	6	0	0	-	6,100
2E. Manufacturing Distribution	0	1	0	1.0	2,600	4,300	3	4033	1433	5333		2068	7,401		2	7,403	7	7	0	0	-	7,400
2F. Other Source Materials	0	55	0	55.0	2,600	6,000	4	253000	110000	6083		2885	8,968	306	2	9,276	493	510	7	0	33,800	9,300
BYPRODUCT MATERIAL:																						
3A. Manufacturing - Broad(Locations 1-5)	0	1	0	1.0	13,000	19,000	4	17000	4000	22479		5771	26,250	306	8	28,563	28	29	0	1	27,700	28,600
3A1. Manufacturing - Broad(sites 6-10)	0	1	0	1.0	17,300	21,400	4	22650	5350	29950		7719	37,669	306	10	37,984	38	38	0	0	-	38,000
3A2. Manufacturing - Broad (sites 20 or more)	0	1	0	1.0	21,600	26,700	4	28275	6675	37388		9630	47,018	306	13	47,336	47	47	0	0	-	47,300
3B. Manufacturing - Other	0	32	0	32.0	3,600	9,400	4	190400	76200	7868		3390	11,258	306	3	11,566	380	370	10	10	178,000	11,600
3B1. Manufacturing - Other (sites 6-10)	0	1	0	1.0	4,800	12,600	4	7950	3150	10512		4545	15,057	306	4	15,366	15	15	0	0	-	15,400
3B2. Manufacturing - Other (sites 20 or more)	0	1	0	1.0	5,900	15,700	4	9825	3925	12992		5663	18,654	306	4	18,964	19	19	0	0	-	19,000
3C. Radiopharmaceuticals - Manuf./Process	0	32	0	32.0	5,200	6,600	5	208640	42240	8621		1904	10,526	306	3	10,834	337	347	11	2	89,100	10,800
3C1. Radiopharmaceuticals - Manuf./Process (sites 6-10)	0	2	0	2.0	6,900	8,800	5	17320	3520	11451		2539	13,990	306	4	14,300	28	29	0	0	-	14,300
3C2. Radiopharmaceuticals - Manuf./Process (sites 20 or more)	0	1	0	1.0	8,600	11,000	5	10800	2200	14281		3174	17,455	306	5	17,765	17	18	0	0	-	17,800
3D. Radiopharmaceuticals - No Manuf./Process	0	0	0	0.0	0	0	3	0	0	0		0	0		0	0	0	0	0	0	-	0
3E. Irradiators - Self-Shield	0	53	0	53.0	3,200	13,800	5	315680	148280	7851		3982	11,883		3	11,865	629	629	0	0	-	11,900
3F. Irradiators - < 10,000 Ci	0	4	0	4.0	6,500	4,400	5	29520	3520	9769		1270	11,028		3	11,031	44	44	0	0	-	11,000
3G. Irradiators - > 10,000 Ci	0	7	0	7.0	62,000	4,300	2	449050	15050	54825		3102	87,927		29	87,955	615	618	0	0	-	88,000
3H. Exempt Distribution - Device Review	0	34	0	34.0	6,600	3,900	5	250920	26520	9769		1125	10,884		3	10,887	370	370	9	6	137,800	10,900
3I. Exempt Distribution - No Device Review	0	78	0	78.0	11,600	4,000	5	942400	80800	18396		1154	17,551		6	17,556	1334	1334	9	12	318,300	17,600
3J. Gen. License - Device Review	0	6	0	6.0	2,000	2,900	5	15480	3480	3412		837	4,248		1	4,249	25	25	2	0	-	4,200
3K. Gen. License - No Device Review	0	4	0	4.0	1,100	2,900	5	6720	2320	2221		837	3,058		1	3,059	12	12	0	2	4,400	3,100
3L. R&D - Broad	0	42	0	42.0	5,500	11,200	4	348800	117600	10975		4040	15,015	306	4	15,324	631	644	0	1	14,400	15,300
3L(a). R&D - Broad(6-20 sites)	0	2	0	2.0	7,300	15,000	4	22100	7500	14611		5410	20,022	306	5	20,332	40	41	0	0	-	20,300
3L(b). R&D - Broad(21 or more sites)	0	2	0	2.0	9,100	18,700	4	27550	9350	18215		6745	24,959	306	6	25,271	50	51	0	0	-	25,300
3M. R&D - Other	0	85	0	85.0	8,300	6,800	5	617700	112200	12720		1904	14,625	306	4	14,935	1243	1269	9	12	261,000	14,900
3N. Service License	0	60	0	60.0	8,900	9,500	4	576500	142500	14909		3427	18,335	306	5	18,646	1100	1119	12	17	470,100	18,600
3O. Radiography	0	68	0	68.0	6,300	7,900	1	965600	537200	18777		11398	30,174		8	30,181	2052	2052	30	4	868,200	30,200
3O1. Radiography (sites 6-19)	0	3	0	3.0	6,500	10,500	1	57000	31500	25124		15149	40,272		8	40,281	121	121	0	0	-	40,300
3O2. Radiography (sites 20 or more)	0	1	0	1.0	10,000	13,100	1	23700	13100	31338		18900	50,238		11	50,249	50	50	0	0	-	50,200
3P. All Other Byproduct Materials	0	903	0	903.0	4,700	6,800	5	5472160	1229080	6013		1962	9,975		3	9,978	9008	9010	232	102	2,204,200	10,000
3P1. All Other Byproduct Materials (sites 6-19)	0	21	0	21.0	6,300	9,100	5	170520	38220	10737		2026	13,383		4	13,366	261	261	0	0	-	13,400
3P2. All Other Byproduct Materials (sites 20 or more)	0	3	0	3.0	7,900	11,300	5	30480	6780	13434		3261	16,895		5	16,700	50	50	0	0	-	16,700
3R1. Radium-226 (less than or equal to 10x limits in 31.12)	0	1	0	1.0	2,600	6,700	5	3940	1340	6210		1933	7,143		2	7,145	7	7	0	0	-	7,100
3R2. Radium-226 (more than 10x limits in 31.12)	0	1	0	1.0	2,500	4,500	3	4000	1500	6289		2184	7,453		2	7,455	7	7	0	0	-	7,500
3S. Accelerator Produced Radionuclides	0	18	0	18.0	14,200	6,800	2	334800	79200	24595		6348	30,943		8	30,951	557	557	3	1	109,600	31,000
WASTE DISPOSAL AND PROCESSING:																						
4A. Waste Disposal*	0	1	0	1.0	12,800	11100	2	18350	5550	24284		6007	32,271	306	8	32,585	32	33	0	0	-	32,600
4B. Waste Receipt/Packaging	0	18	0	18.0	6,900	6,500	2	162400	52000	13421		4689	18,110	306	5	18,420	290	295	3	1	59,200	18,400
4C. Waste Receipt - Prepackaged	0	1	0	1.0	5,000	3,900	3	6300	1300	6330		1878	10,206	306	3	10,514	10	11	1	0	6,000	10,500
WELL LOGGING:																						
5A. Well Logging	0	22	0	22.0	4,600	9,200	3	168667	67467	10138		4424	14,562		3	14,565	320	320	4	2	67,600	14,600
5B. Field Flooding Tracers Studies*	0	0	0	0.0			3	0	0	0		0	0	306	0	306	0	0	0	0	-	
NUCLEAR LAUNDRY:																						
6A. Nuclear Laundry	0	0	0	0.0			3	0	0	0		0	0		0	0	0	0	0	0	-	
HUMAN USE OF BYPRODUCT, SOURCE, OR SNM:																						
7A. Teletherapy	0	4	0	4.0	11,100	18,100	4	60500	16100	20000	251	6807	26,058		7	26,065	104	104	0	0	-	26,100
7A1. Teletherapy sites 6-19	0	1	0	1.0	14,800	21,400	4	20150	5350	26644	251	7719	34,614		9	34,623	35	35	0	0	-	34,600
7A2. Teletherapy sites 20 or more	0	1	0	1.0	18,500	26,800	4	25200	6700	33322	251	9666	43,239		11	43,250	43	43	0	0	-	43,300
7B. Medical - Broad	0	8	0	8.0	8,700	14,100	2	128000	56400	20826	251	10171	31,249	306	7	31,561	250	252	0	0	-	31,600
7B1. Medical - Broad sites 6-19	0	7	0	7.0	11,500	18,900	2	148050	66150	27702	251	13834	41,587	306	9	41,902	291	293	0	0	-	41,900
7B2. Medical - Broad sites 20 or more	0	1	0	1.0	14,400	23,600	2	26200	11800	34644	251	17024	51,920	306	12	52,237	52	52	0	0	-	52,200
7C. Medical Other	0	737	0	737.0	8,600	6,900	3	6559300	1695100	11768	251	3318	15,338		4	15,342	11304	11307	156	46	2,455,200	15,300
7C1. Medical Other sites 6-19	0	28	0	28.0	8,700	9,200	3	329467	85867	15559	251	4424	20,234		5	20,240	567	567	0	0	-	20,200
7C2. Medical Othersites 20 or more	0	1	0	1.0	10,900	11,500	3	14733	3833	19482	251	6531	25,263		7	25,270	25	25	0	0	-	25,300

FY 2019 Materials Users Annual Fees

REBASELINE																										
			NUMBER OF LICENSES FY 2019																							
						(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)						FY 2019 Annual Fee (Rounded)
			Billed at	Billed at	Less Agree. State		Part 170 Fees($)			Calc. of	Calc.	Part 171 Base Fee Per License ($)				Adjustment per License		Total Exact Annual	Total Collections		Number of		Small		
License Fee Category			FY 2018 Fee	FY 2019 Fee	Transfer Adjust	Total For FY 2018	Appl.	Insp.	Prior.	General Multiple	of Insp. Multiple	General	Unique	Inspection	Total Base Fee per license	LLW Surcharge	Fee-Relief	Fee per license	Base Fee	TOTAL	Sm Entity	Sm Entity	Entity Subsidy		
CIVIL DEFENSE:																										
	8A. Civil Defense		0	10	0	10.0	2,600	6,700	5	39400	13400	5210		1933	7,143		2	7,145	71	71	1	0	2,600		7,100
DEVICE, PRODUCT, OR SEALED SOURCE SAFETY EVALUATION:																										
	9A. Device/Product Safety Evaluation - Broad		0	95	0	95.0	10,800		5	1026000	0	14281		0	14,281		5	14,286	1357	1357	22	20	483,600		14,300
	9B. Device/Product Safety Evaluation - Other		0	4	0	4.0	9,000		5	36000	0	11901		0	11,901		4	11,905	48	48	0	0	-		11,900
	9C. Sealed Sources Safety Evaluation - Broad		0	31	0	31.0	5,300		5	184300	0	7008		0	7,008		2	7,011	217	217	12	12	103,200		7,000
	9D. Sealed Sources Safety Evaluation - Other		0	9	0	9.0	1,100		5	9900	0	1455		0	1,455		0	1,455	13	13	0	0	-		1,500
OTHER LICENSES:																										
	17. Master Material License		0	3	0	3.0	110,400	123,900	2	517050	165850	227897	11047	69378	328,322	306	77	328704	985	986	0	0			329,000
	TOTAL		0.0	2594.0	0.0	2594.0				21548040	5206840				1428764				36236	36371	558	256	7,973,000	Met	
																					1	1	49,200	Uranium recovery 2A2b	
																			Total Small Entity Subsidy		559	257	8,022,200		
	FTE RATE:		$419,787															Total			816				
																		% of total Materials Users licensees			31.46%				

Calculation of UNIQUE (generic activities related to specific fee categories):					UNIQUE ACTIVITES IDENTIFIED FOR FY 2019				
Total budgeted resources (FY 2019 unique activities=Part 35 Implementation)			4.8	(FTE	$0.00	(CONTRACT COSTS)			
Total cost (FTExFTE rate + any contract costs)			$2,014,881						
Percent of NRC materials licenses to the total materials licenses			11%						
Amount allocated to NRC materials licensees (% x total cost)			$230,981						
No. of affected NRC licenses (for FY 2019, Cats. 7A, 7B, & 7C, + those medical under Master Matls Licenses)			920.0						
Unique per license:			$251						
Total Part 171 (annual fee) amount, excluding fee-relief costs):			$38,236,164						
			FTE		FTE Rate				Total
Inspection Amount (budgeted costs for materials inspections):			17.9	x	$419,767	=	$7,513,827	=	$7,515,027
LLW Surcharge Amount (see FEE-RELIFE ACTIVITIES Sheet for further details):									
Total LLW surcharge to be recovered:	$3,797,018								
Percentage to be recovered from materials licensees:	3.3%								
Amount to be recovered from materials licensees:	$126,302								
No. of affected licenses:	410.0								
LLW Surcharge per license:	$308								
Other Fee-Relief Amount (see FEE-RELIEF ACTIVITIES Sheet for further details):									
Total other fee-relief to be recovered:	$253,629								
Percentage to be recovered from materials licensees:	3.8%								
Amount to be recovered from materials licensees:	$9,589								
	$K		$K		$K		$K		
TOTAL GENERAL = TOTAL Part 171 amount less INSPECTION less UNIQUE:	38,236	-	7,515	-	231	=	28,490		
ANNUAL FEE MULTIPLIER = TOTAL GENERAL /Total of Calc of Gen. Multiple col.:	28,490	/	21,546			=	1.32		
INSPECTION MULTIPLIER=INSPECTION AMOUNT/Total Calc of Insp. Multiple col.:	$7,515,027	/	5,209			=	1.44		
FEE-RELIEF MULTIPLIER=Fee-Relief amount to be adjusted for materials licensees/total of Calc of Gen. Multiple col.):	$9,589	/	21,546			=	0.0004		
COL (5) = COL (1) * [COL (2) + COL (3)/COL (4)]									
COL (6) = COL(1) * (COL (3)/COL (4))									
COL (7) = GENERAL MULTIPLIER * [COL(2) + COL (3)/COL (4)]									
COL (8) = (UNIQUE COSTS) / (NO. OF APPLICABLE LICENSES)									
COL (9) = INSPECTION MULTIPLIER*(COL3/COL4)									
COL (10) = COL (7) + COL(8)+COL(9)									
COL (11) = LLW SURCHARGE =% Allocated * LLW Costs/# affected licenses									
COL (12)=FEE-RELIEF MULTIPLIER*(COL(2)+(COL(3)/COL(4))									
COL (13) = COL (10) + COL(11)+COL(12)									
COL (14) = [COL (1) * COL (10)] /1000									
COL (15) = [COL (1) * COL (13)] /1000									

ANNUAL FEE CALCULATION-FOR AGREEMENT STATE USE ONLY

License Fee Category	Part 170 Fees($) Appl.	Insp.	Insp. Prior.	Calc. of General Multiple	Calc. of Insp. Multiple	Part 171 Base Fee Per License ($) General	Inspection	Total Base Fee per license	Adjustment per License LLW Surcharge	Fee-Relief	Total	Total Exact Annual Fee per license	FY 2019 Annual Fee (Rounded)
				(No. of licenses x (Appl fee + insp fee/insp priority)	(No. of licenses x insp fee/insp priority)	Annual fee multiplier*(Appl fee + insp fee/insp priority) annual fee multiplier of 1.33	Inspection multiplier*(insp fee/insp priority)insp. multiplier of 1.44	(General+ Inspection)	(Total Materials LLW Surcharge/ no. of affected licenses)	(Fee-Relief multiplier x (appl fee+insp fee/insp priority)See below for calculation of fee-relief multi.)		(Total Base Fee+ LLW Surcharge + Fee-Relief)	
NUCLEAR LAUNDRY:													
6A. Nuclear Laundry	22,200	6,000	3	24200	2000	31,964	2884	34,848	305	11	35164	35,164	**35,200**

Part 171 Annual Fees

Transportation

Section II.B.2.h

Table XVII
Table XVIII

Consistent with the policy established in the NRC's FY 2006 final fee rule, the NRC will recover generic transportation costs unrelated to DOE as part of existing annual fees for license fee classes. NRC will continue to assess a separate annual fee under §171.16, fee category 18.A., for DOE transportation activities.

The resources associated with generic transportation activities are distributed to the license fee classes based on the number of Certificates of Compliance (CoCs) benefiting (used by) that fee class, as a proxy for the generic transportation resources expended for each fee class. The amount of the generic resources allocated is calculated by multiplying the percentage of total CoCs used by each fee class (and DOE) by the total generic transportation resources to be recovered.

FY 2019 MISSION DIRECT BUDGETED RESOURCES	TOTAL		TRANSPORTATION ALLOCATIONS	
	CONTRACT $,K	FTE	CONTRACT $,K	FTE
NUCLEAR REACTOR SAFETY	113,923.0	1,863.0	2.1	0.2
NUCLEAR MATERIALS & WASTE SAFETY (no HLW/Gen Fund)	18,921.0	464.0	463.5	17.8
CORPORATE	183,545.0	609.0	0.0	0.0
INSPECTOR GENERAL(no DNSFB)	1,414.0	58.0		
SUBTOTAL - FEE BASE RESOURCE	317,803.0	2,994.0	465.6	18.0

Figures below in $, M (unless otherwise indicated)		
(1) FY 2019 ALLOCATIONS: equals $, K + FTE*FTE rate (shown below)		8.0
(2) LESS ESTIMATED PART 170 FEE COLLECTIONS		3.7
(3) PART 171 ALLOCATIONS (equals 1 - 2)		4.3
(4) GENERIC TRANSPORTATION RESOURCES (allocated)		-3.3
(5) NET PART 171 ALLOCATIONS (after transportation allocated)(equals 3+4)		1.0
(6) FY 2019 TOTAL ALLOCATIONS (after transportation allocation) (equals 2+5)		4.7
(7) % OF BUDGET (% total allocations, excl. fee-relief activities, import/export alloc, small entity)		0.6%
(8) Fee-Relief Adjustment (includes small entity) + LLW Surcharge		0.0
(9) Fee-Relief Adjustment and LLW Surcharge per licensee		
(10) Part 171 billing adjustments		0.0
(11) Adjustments		0.000
(12) TOTAL FY 2019 ANNUAL FEE (equals 5+8+10+11)		1.0
(13) Number of Licensees		1
(14) Fee Per License (equals 12/13)		1.020037
		(DOE's fee)
unrounded annual fee amount per license, actual $		1,020,037
rounded annual fee, actual $		1,020,000

FTE FULLY COSTED RATE (average based on budget data, actual $): See Determination of Hourly Rate for calculations	419,767			

Mission Direct Budgeted Resources for Transportation Fee Class

	FY19		FY18		Difference	
	Contract ($,K)	FTE	Contract ($,K)	FTE	Contract ($,K)	FTE
PROGRAM: NUCLEAR REACTOR SAFETY						
BUSINESS LINE: OPERATING REACTORS						
PRODUCT LINE/PRODUCTS:						
Oversight						
Business Process Improvements	0.0	0.1	0.0	0.0	0.0	0.1
Enforcement	1.2	0.1	1.0	0.2	0.2	(0.1)
Mission IT	0.8	0.0	1.0	0.0	(0.2)	0.0
Total Direct Resources	2.0	0.2	2.0	0.2	0.0	0.0
Grand Total Nuclear Reactor Safety	2.1	0.2	2.1	0.2	0.0	0.0
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: NUCLEAR MATERIALS USERS						
PRODUCT LINE/PRODUCTS:						
Oversight						
Enforcement	0.5	0.2	0.5	0.2	0.0	0.0
State Tribal and Federal Programs						
Liaison	0.0	0.4	0.0	0.5	0.0	(0.1)
Training						
Mission Training	19.0	0.2	24.0	0.2	(5.0)	0.0
Total Direct Resources	20.0	0.8	24.5	0.9	(4.5)	(0.1)
PROGRAM: NUCLEAR MATERIALS AND WASTE SAFETY						
BUSINESS LINE: SPENT FUEL STORAGE AND TRANSPORTATION						
PRODUCT LINE/PRODUCTS:						
Licensing						
IT Infrastructure	182.5	0.0	0.0	0.0	182.5	0.0
Licensing Support	0.0	2.2	0.0	3.0	0.0	(0.8)
Mission IT	219.0	0.4	293.0	0.4	(74.0)	0.0
Policy Outreach	0.0	0.5	0.0	0.0	0.0	0.5
Transportation Certification	5.0	10.7	0.0	10.7	5.0	0.0
Oversight						
Inspection	0.0	1.5	0.0	1.5	0.0	0.0
Rulemaking						
Rulemaking (PL)	0.0	1.2	0.0	1.4	0.0	(0.2)
Training						
Mission Training	37.0	0.0	26.0	0.0	11.0	0.0
NSPDP Training	0.0	0.5	0.0	0.0	0.0	0.5
Total Direct Resources	443.5	17.0	319.0	17.0	124.5	0.0
Grand Total Nuclear Materials & Waste Safety	463.5	17.8	344.0	17.9	119.5	(0.1)
TOTAL TRANSPORTATION	465.6	18.0	346.0	18.1	119.6	(0.1)
Total value of budgeted resources for fee class(mission direct FTE x full cost of FTE + mission direct contract $)	8,021.4		7,864.0		157.4	

TRANSPORTATION ANNUAL FEES

FY 2019

The total transportation budgeted costs of $4,303,403 to be recovered from annual fees (not including fee-relief adjustments) is to be obtained from two sources:

1. Department of Energy (DOE)--has own annual fee (fee category 18A)
2. Other licensees (included in their annual fees)

Distribute these costs to DOE and the fee classes based on the percentage of CoCs benefitting (used) per fee class:

Fee Class	# CoCs	% CoCs	Transportation Resources to be included in annual fees	Resources in Millions
DOE	21.00	23.4%	$1,008,102	$1.0
Operating Reactors	5.00	5.6%	$240,024	$0.2
Spent fuel/reactor decom	14.00	15.6%	$672,068	$0.7
T&R reactors	0.65	0.7%	$30,971	$0.0
Fuel Facilities	24.00	26.8%	$1,152,117	$1.2
Materials Users	25.00	27.9%	$1,200,121	$1.2
Total	89.65	100.0%	$4,303,403	$4.3

Regulatory Flexibility Analysis

Section IV.

The Regulatory Flexibility Act (RFA), as amended 5 U.S.C. § 601 *et seq.*, requires that agencies consider the impact of their rulemakings on small entities and, consistent with applicable statutes, consider alternatives to minimize these impacts on the businesses, organizations, and government jurisdictions to which they apply.

Additionally, the Small Business Regulatory Enforcement Fairness Act (SBREFA) requires all Federal agencies to prepare a written compliance guide for each rule for which the agency is required to prepare a regulatory flexibility analysis. Therefore, in compliance with the law, the NRC has made publicly available via ADAMS the "FY 2019 Small Entity Compliance Guide".

Licensees may use this guide to determine whether they qualify as a small entity under NRC regulations and are eligible to pay reduced FY 2019 annual fees assessed under 10 CFR part 171. The NRC has established two tiers of annual fees for those materials licensees who qualify as small entities under the NRC's size standards.

Note: Using the FY 2009 calculation method Implemented to Determine Upper Tier Small Entity Fee Each Biennial Year To Be 39 % Of The Prior Two-year Weighted Average Of Small Materials Users Fees.

	1D	2B	2C	2E	2F	3A	3B	3C	3E	3G	3H	3I	3J	3K	3M	3N
2016 small entities	7	1	4	1	2	0	7	13	0	0	10	17	1	0	16	19
2017 small entities	6	1	4	1	4	0	7	12	0	0	7	11	1	0	13	16
2017 Total # of Licensees	43	10	18	1	39	3	32	37	59	7	33	69	6	3	85	61
	13.95%	10.00%	22.22%	100.00%	10.26%	0.00%	21.88%	32.43%	0.00%	0.00%	21.21%	15.94%	16.67%	0.00%	15.29%	26.23%
2016 Fee	$8,100	$3,600	$6,800	$8,300	$7,700	$30,500	$12,800	$13,500	$10,000	$107,900	$12,300	$18,200	$4,700	$3,500	$12,300	$21,100
2017 Fee	$8,600	$3,400	$5,500	$8,000	$9,400	$30,500	$11,600	$12,900	$10,800	$95,700	$11,800	$16,300	$4,600	$3,300	$14,800	$21,200

Implementing this method in FY 2019 resulted in a 13 percent and 6% increase from the previous year small entity.

	Prior Year	21% ceili	Increase	Rounded Fee
Top	$ 4,100	21%	$861	$5,000
Lower	$ 850	21%	179	$1,000

$56,700	$3,600	$27,200	$8,300	$15,400	$0	$89,600	$175,500	$0	$0	$123,000	$309,400	$4,700	$0	$196,800	$400,900
$51,600	$3,400	$22,000	$8,000	$37,600	$0	$81,200	$154,800	$0	$0	$82,600	$179,300	$4,600	$0	$192,400	$339,200

Note: 1C, 2B, 3J, 3K, and 9D annual fees are less than new small entity uppe

Note: Using the FY 2009 calculation method Implemented to Determine Upper Tier Small Entity Fee Each Biennial Year
To Be 39 % Of The Prior Two-year Weighted Average Of Small Materials Users Fees.

3O	3P	3S	4B	4C	5A	7A	7C	9A	9C	Total	Weighted Average	2-year Weighted Average	39% of 2-year weighted average	Rounde	Prior Year	
29	272	2	5	0	6	1	198	19	7	637						
26	227	2	4	1	4	1	167	18	9	542						
74	992	18	14	1	25	12	809	73	26	2550						
35.14%	22.88%	11.11%	28.57%	100.00%	16.00%	8.33%	20.64%	24.66%	34.62%	21.25%						
$26,000	$7,900	$30,800	$21,900	$14,800	$14,500	$24,700	$13,200	$7,900	$7,600		$11,638					
$26,000	$7,900	$30,900	$22,000	$14,800	$14,500	$24,700	$13,300	$7,900	$7,600		$11,633	$11,636	$4,538	$4,500	4100	13%
													$940.78	$900	850	6%

$754,000	$2,148,800	$61,600	$109,500	$0	$87,000	$24,700	$2,613,600	$150,100	$53,200	$7,413,600	$11,638
$676,000	$1,793,300	$61,800	$88,000	$14,800	$58,000	$24,700	$2,221,100	$142,200	$68,400	$6,305,000	$11,632.84

Budget Authority (FY 2019)

The table below delineates where the *major* portion of a Business Line's direct budgetary resources are allocated when calculating 10 CFR Part 171 fees for a license fee class. The indirect portion of a Business Line (e.g. Training, Travel, Mission Support and Supervisors), as well as Corporate Support and Inspector General budgetary resources, are distributed among all license fee classes.

CROSSWALK OF BUSINESS LINES' ALLOCATION TO FEE CLASSES*

Business Line	License Fee Class
Operating Reactors	Power Reactors, Test and Research Reactors, Import/Export
New Reactors	Power Reactors
Fuel Facilities	Fuel Facilities
Nuclear Materials Users	Materials Users, Import/Export
Spent Fuel Storage and Transportation	Spent Fuel Storage/Reactor Decommissioning, Transportation
Decommissioning and Low-level Waste	Spent Fuel Storage/Reactor Decommissioning, Uranium Recovery

**Delineates where the major portion of a Business Line's direct budgetary resources are allocated for a license fee class. Does not include fee-relief allocation. NRC does not have licensees under the Rare Earth fee class.*

More information about 10 CFR Part 170 and 10 CFR Part 171 can be found at NRC's public website: http://www.nrc.gov/about-nrc/regulatory/licensing/fees.html.

Budget Authority (FY 2019)

FY 2019 Budget Summary by Program

This report is provided as supplemental information. It provides a summary of the FY 2019 budgeted FTE and contract dollars allocated to each fee class and fee-relief/surcharge activities at the Program level. The Programs include: 1) Nuclear Reactor Safety, 2) Nuclear Materials & Waste Safety, 3) Corporate Support, and 4) Inspector General.

FY 2019 MISSION DIRECT BUDGETED RESOURCES										
						SPENT FUEL STORAGE/			TEST AND RESEARCH	
			POWER REACTORS			REACTOR DECOMM.			REACTORS	
	TOTAL		ALLOCATIONS			ALLOCATIONS			ALLOCATIONS	
	CONTRACT		CONTRACT			CONTRACT			CONTRACT	
	$,K	FTE	$,K	FTE		$,K	FTE		$,K	FTE
NUCLEAR REACTOR SAFETY	113,923.0	1,863.0	78,044.9	1,406.9		8.1	0.4		78.2	1.8
NUCLEAR MATERIALS & WASTE SAFETY (no HLW/Gen Fund)	18,921.0	464.0	121.7	3.4		2,757.2	77.8		0.5	0.0
CORPORATE	183,545.0	609.0	0.0	0.0		0.0	0.0		0.0	0.0
INSPECTOR GENERAL(no DNSFB)	1,414.0	58.0								
SUBTOTAL - FEE BASE RESOURCE	317,803.0	2,994.0	78,166.6	1,410.3		2,765.3	78.2		78.7	1.8

FY 2019 MISSION DIRECT BUDGETED RESOURCES												
	TOTAL		FUEL FACILITY ALLOCATIONS		MATERIALS ALLOCATIONS		TRANSPORTATION ALLOCATIONS		URANIUM RECOVERY ALLOCATIONS	
	CONTRACT $,K	FTE	CONTRACT $,K	FTE	CONTRACT $,K	FTE	CONTRACT $,K	FTE	CONTRACT $,K	FTE
NUCLEAR REACTOR SAFETY	113,923.0	1,863.0	8.0	0.1	39.0	0.1	2.1	0.2	0.0	0.0
NUCLEAR MATERIALS & WASTE SAFETY (no HLW/Gen Fund)	18,921.0	464.0	2,000.7	66.6	638.4	84.1	463.5	17.8	114.5	2.1
CORPORATE	183,545.0	609.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INSPECTOR GENERAL(no DNSFB)	1,414.0	58.0								
SUBTOTAL - FEE BASE RESOURCE	317,803.0	2,994.0	2,008.7	66.7	677.4	84.2	465.6	18.0	114.5	2.1

FY 2019 MISSION DIRECT BUDGETED RESOURCES	TOTAL		RARE EARTH ALLOCATIONS		IMPORT/EXPORT ALLOCATIONS		INCLUDED IN FEE-RELIEF ACTIVITIES		INCLUDED IN PROFESSIONAL HOURLY & FTE RATE (overhead)	
	CONTRACT $,K	FTE	CONTRACT $,K	FTE	CONTRACT $,K	FTE	CONTRACT $,K	FTE	CONTRACT $,K	FTE
NUCLEAR REACTOR SAFETY	113,923.0	1,863.0	0.0	0.0	0.0	0.0	15,939.7	28.5	19,803.0	425.0
NUCLEAR MATERIALS & WASTE SAFETY (no HLW/Gen Fund)	18,921.0	464.0	0.0	0.0	0.0	0.0	7,596.5	120.2	5,228.0	92.0
CORPORATE	183,545.0	609.0	0.0	0.0	0.0	0.0	0.0	0.0	183,545.0	609.0
INSPECTOR GENERAL(no DNSFB)	1,414.0	58.0							1,414.0	58.0
SUBTOTAL - FEE BASE RESOURCE	317,803.0	2,994.0	0.0	0.0	0.0	0.0	23,536.2	148.7	209,990.0	1,184.0

FY 2019 MISSION DIRECT BUDGETED RESOURCES												
								AGREEMENT			AGREEMENT	
			NONPROFIT ED.			INTERNATIONAL		STATE			STATE	
	TOTAL		EXEMPTION			ACTIVITIES		OVERSIGHT			REG SUPPORT	
	CONTRACT		CONTRACT			CONTRACT		CONTRACT			CONTRACT	
	$,K	FTE	$,K	FTE		$,K	FTE	$,K	FTE		$,K	FTE
NUCLEAR REACTOR SAFETY	113,923.0	1,863.0	615.7	16.0		0.0	0.0	46.0	0.2		0.0	0.0
NUCLEAR MATERIALS & WASTE SAFETY (no HLW/Gen Fund)	18,921.0	464.0	20.8	4.2		0.0	0.0	1,838.0	22.7		2,888.2	28.1
CORPORATE	183,545.0	609.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0
INSPECTOR GENERAL(no DNSFB)	1,414.0	58.0										
SUBTOTAL - FEE BASE RESOURCE	317,803.0	2,994.0	636.5	20.2		0.0	0.0	1,884.0	22.9		2,888.2	28.1

FY 2019 MISSION DIRECT BUDGETED RESOURCES												
			ISL RULE/		GENERIC		MILITARY RADIUM		PUBLIC RADIUM			
			GEN LICENSEES/		DECOMMISS/		226		226			
	TOTAL		FELLOWSHIPS		RECLAIMATION						GENERIC LLW	
	CONTRACT		CONTRACT		CONTRACT		CONTRACT		CONTRACT		CONTRACT	
	$,K	FTE	$,K	FTE	$,K	FTE	$,K	FTE	$,K	FTE	$,K	FTE
NUCLEAR REACTOR SAFETY	113,923.0	1,863.0	15,260.0	12.3	0.0	0.0	0.0	0.0	0.0	0.0	18.0	0.0
NUCLEAR MATERIALS & WASTE SAFETY (no HLW/Gen Fund)	18,921.0	464.0	937.5	14.8	1,301.0	35.2	400.0	4.0	0.0	2.7	211.0	8.5
CORPORATE	183,545.0	609.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INSPECTOR GENERAL(no DNSFB)	1,414.0	58.0										
SUBTOTAL - FEE BASE RESOURCE	317,803.0	2,994.0	16,197.5	27.1	1,301.0	35.2	400.0	4.0	0.0	2.7	229.0	8.5

FY 2019 MISSION DIRECT BUDGETED RESOURCES											
	TOTAL		BUDGET SUM		ARI & WIR		Generic HLS BFS			International Activities	
	CONTRACT $,K	FTE	CONTRACT $,K	FTE	CONTRACT $,K	FTE	CONTRACT $,K	FTE		CONTRACT $,K	FTE
NUCLEAR REACTOR SAFETY	113,923.0	1,863.0	113,923.0	1,863.0	5802.0	24	150.0	8		120.0	24
NUCLEAR MATERIALS & WASTE SAFETY (no HLW/Gen Fund)	18,921.0	464.0	18,921.0	464.0	550.0	4	9648.0	18		6155.0	29
CORPORATE	183,545.0	609.0	183,545.0	609.0	0.0	0	0.0	0			
INSPECTOR GENERAL(no DNSFB)	1,414.0	58.0	1,414.0	58.0							
SUBTOTAL - FEE BASE RESOURCE	317,803.0	2,994.0	317,803.0	2,994.0	6,352.0	28.0	9,798.0	26.0		6275.0	53

Budget Authority (FY 2019)

FY 2019 Budget by Product Line

These reports are provided as supplemental information. They provide a summary of the FY 2019 budgeted FTE and contract dollars by Product Line and allocated by: 1) the Nuclear Reactor Safety Program and the Nuclear Materials & Waste Safety Program, 2) Corporate Support, 3) Inspector General, by each office with mission direct budgeted resources.

The offices include:

Office of Inspector General
Office of Research
Office of Nuclear Reactor Regulations
Office of New Reactors
Regional Offices
Office of Nuclear Material Safety and Safeguards
Office of Nuclear Security and Incident Response
Office of General Counsel
Advisory Committee on Reactor Safeguards
Office of International Programs
Office of Enforcement
Office of Investigations
Atomic Safety and Licensing Board
Office of the Chief Human Capital Officer
Office of Administration

FY 2019 BUDGET RESOURCES FOR OFFICE OF INSPECTOR GENERAL

			Budget Resources Allocated to Fee Classes			
Program	Business Lines	Product Lines	Total Contract ($,K)	Total FTE	Professional Hourly Rate Contract ($,K)	Professsional Hourly Rate FTE
Inspector General	Inspector General (IG)	Inspector General (PL)	1,414	58	1,414	58
Grand Total			1,414	58	1,414	58

FY 2019 BUDGET RESOURCES FOR OFFICE OF RESEARCH

OFFICE	RES											
			Budget Resources Allocated to Fee Classes									
Program	Business Lines	Product Lines	Total Contract ($,K)	Total FTE	Power Reactors Contract ($,K)	Power Reactors FTE	Spent Fuel Stor/Reactor Decomm. Contract ($,K)	Spent Fuel Stor/Reactor Decomm. FTE	Fee Relief Contract ($,K)	Fee Relief FTE	Professional Hourly Rate Contract ($,K)	Professional Hourly Rate FTE
Nuclear Materials and Waste Safety	Nuclear Materials Users	Research	0	1					0	0.7		
	Spent Fuel Storage and Transportation	Research	615	2			615	2	0	0		
		Travel (PL)	15	0					0	0	15	
	Decommissioning and LLW	Research	300	1					300	1		
Nuclear Reactor Safety	New Reactors	Licensing	50	1	50	1			0	0		
		Research	2685	11	2,685	11			0	0		
		Travel (PL)	25	0					0	0	25	
		PL-M - Support Staff	0	1					0	0		1
	New Reactors Total		**2760**	**13**	**2,735**	**12**			**0**	**0**	**25**	**1**
	Operating Reactors	International Activities	0	3					0	0		
		Research	22141	132	22,141	132			0	0		
		Travel (PL)	888	0					0	0	888	
	Operating Reactors Total		**23365**	**183**	**22,241**	**144**			**0**	**0**	**1074**	**36**
	Integrated University Program (BL)	Integrated University Program (PL)	15000	0					15,000	0		
	Integrated University Program (BL) Total		**15000**	**0**					**15,000**	**0**		
	Advanced Reactors	Research	3773	7					0	0		
		PL-M - Mission Support & Supervisors	0	1					0	0		
	Advanced Reactors Total		**3773**	**8**					**0**	**0**		
Nuclear Reactor Safety Total			**44898**	**204**	**24,976**	**156**			**15,000**	**0**	**1099**	**37**
Grand Total			**45828**	**208**	**24,976**	**156**	**615**	**2**	**15,300**	**1.7**	**1114**	**37**

FY 2019 BUDGET RESOURCES FOR OFFICE OF NUCLEAR REACTOR REGULATIONS												
OFFICE	NRR											
			Budget Resources Allocated to Fee Classes									
Program	Business Lines	Product Lines	Total Contract ($,K)	Total FTE	Power Reactors Contract ($,K)	Power Reactors FTE	Test & Research Reactors Contract ($,K)	Test & Research Reactors FTE	Fee Relief Contract ($,K)	Fee Relief FTE	Professional Hourly Rate Contract ($,K)	Professional Hourly Rate FTE
Nuclear Materials and Waste Safety	Fuel Facilities	Licensing	0	0					0.0	0		
	Nuclear Materials Users	International Activities	0	1					0.0	0		
	Nuclear Materials Users Total		0	1					0.0	0		
	Spent Fuel Storage and Transportation Total		0	1		1			0.0	0		
Nuclear Materials and Waste Safety Total			0	3		2			0.0	0		
Nuclear Reactor Safety	New Reactors	Licensing	0	4		4			0.0	0		
		Oversight	0	3		3			0.0	0		
		Travel (PL)	5	0					0.0	0	5	
		Rulemaking (PL)	0	1		1			0.0	0		
	New Reactors Total		5	9		8			0.0	0	5	1
	Operating Reactors	International Activities	0	7					0.0	0		
		Licensing	12458	294	11,548	272	70	1.4	650.0	20		
		Oversight	6368	407	6,368	403		0.4	0.0	3.6		
		PL-M Support Staff	936	80					0.0	0	936	80
	Operating Reactors Total		22180	796	17,916	683	70	1.8	650.0	23.6	3354	80
	Advanced Reactors	Research	0	1					0.0	0		
	Advanced Reactors Total		0	1					0.0	0		
Nuclear Reactor Safety Total			22185	806	17,916	691	70	1.8	650.0	23.6	3359	81
Grand Total			22185	809	17,916	693	70	1.8	650.0	23.6	3359	81

FY 2019 BUDGET RESOURCES FOR OFFICE OF NEW REACTORS								
OFFICE	NRO							
			Budget Resources Allocated to Fee Classes					
Program	Business Lines	Product Lines	Total Contract ($,K)	Total FTE	Power Reactors Contract ($,K)	Power Reactors FTE	Professional Hourly Rate Contract ($,K)	Professional Hourly Rate FTE
Nuclear Materials and Waste Safety	**Nuclear Materials Users**	International Activities	0	1				
	Nuclear Materials Users Total		**0**	**1**				
Nuclear Materials and Waste Safety Total			**0**	**1**				
Nuclear Reactor	**New Reactors**	International Activities	60	3				
		Licensing	6479	138	6,479	138		
		Oversight	60	57	60	57		
		Travel (PL)	1267	0			1267	
		Rulemaking (PL)	0	3		3		
		PL-M - Support Staff	550	60			550	60
	New Reactors Total		**8416**	**261**	**6,539**	**198**	**1817**	**60**
	Operating Reactors	Licensing	540	12	540	12		
		Oversight	0	2		2		
		PL-M Support Staff	0	1			0	1
		Travel (PL)	80	0			80	
		Rulemaking (PL)	0	1		1		
	Operating Reactors Total		**620**	**16**	**540**	**15**	**80**	**1**
	Advanced Reactors	Research	2000	11				
		PL-M - Mission Support & Supervisors	0	1				
		PL-O - Travel (PL)	29	0				
	Advanced Reactors Total		**2029**	**12**				
Nuclear Reactor Safety Total			**11065**	**289**	**7,079**	**213**	**1897**	**61**
Grand Total			**11065**	**290**	**7,079**	**213**	**1897**	**61**

FY 2019 BUDGET RESOURCES FOR REGIONAL OFFICES

				Budget Resources Allocated to Fee Classes						
Program	Program	Business Lines	Product Lines	Total Contract ($,K)	Total FTE	Power Reactors Contract ($,K)	Power Reactors FTE	Materials FTE	Professional Hourly Rate Contract ($,K)	Professional Hourly Rate FTE
REG1	**Corporate Support**	Corporate Support		4586	5				4586	5
	Corporate Support Total			**4586**	**5**				**4586**	**5**
	Nuclear Materials and Waste Safety	Nuclear Materials Users	Licensing	0	1			1		
			Travel (PL)	325	0				325	
			PL-M - Support Staff	0	6					6
		Nuclear Materials Users Total		325	7			1	325	6
		Spent Fuel Storage and Transportation		50	2				50	2
		Decommissioning and LLW		84	0				84	
	Nuclear Materials and Waste Safety Total			**459**	**9**			**1**	**459**	**8**
	Nuclear Reactor Safety	New Reactors	Travel (PL)	8	0				8	
		New Reactors Total		8	0				8	
		Operating Reactors	Event Response	1097	0	1,097				
			Oversight	0	1		1			
			PL-M Support Staff	364	39				364	39
			Travel (PL)	2256	0				2256	
		Operating Reactors Total		3717	40	1,097	1		2620	39
	Nuclear Reactor Safety Total			**3725**	**40**	**1,097**	**1**		**2628**	**39**
REG1 Total				**8770**	**54**	**1,097**	**1**	**1**	**7673**	**52**

FY 2019 BUDGET RESOURCES FOR REGIONAL OFFICES

				Budget Resources Allocated to Fee Classes						
Program	Program	Business Lines	Product Lines	Total Contract ($,K)	Total FTE	Power Reactors Contract ($,K)	Power Reactors FTE	Materials FTE	Professional Hourly Rate Contract ($,K)	Professional Hourly Rate FTE
REG3	**Corporate Support**	Corporate Support		3948	2				3948	2
	Corporate Support Total			**3948**	**2**				**3948**	**2**
	Nuclear Materials and Waste Safety	Nuclear Materials Users	Licensing	0	1			1		
			Travel (PL)	305	0				305	
			PL-M - Support Staff	0	7					7
		Nuclear Materials Users Total		305	8			1	305	7
		Spent Fuel Storage and Transportation		34	0				34	
		Decommissioning and LLW		71	1				71	1
	Nuclear Materials and Waste Safety Total			**410**	**9**			**1**	**410**	**8**
	Nuclear Reactor Safety	New Reactors	Travel (PL)	11	0				11	
		New Reactors Total		11	0				11	
		Operating Reactors	Event Response	99	2	99	2			
			Oversight	0	1		1			
			PL-M Support Staff	499	39				499	39
			Travel (PL)	1960	0				1960	
		Operating Reactors Total		2558	42	99	3		2459	39
	Nuclear Reactor Safety Total			**2569**	**42**	**99**	**3**		**2470**	**39**
REG3 Total				**6927**	**53**	**99**	**3**	**1**	**6828**	**49**

FY 2019 BUDGET RESOURCES FOR REGIONAL OFFICES

				Budget Resources Allocated to Fee Classes						
Program	Program	Business Lines	Product Lines	Total Contract ($,K)	Total FTE	Power Reactors Contract ($,K)	Power Reactors FTE	Materials FTE	Professional Hourly Rate Contract ($,K)	Professional Hourly Rate FTE
REG4	**Corporate Support**	Corporate Support		4230	4				4230	4
	Corporate Support Total			**4230**	**4**				**4230**	**4**
	Nuclear Materials and Waste Safety	Fuel Facilities	Travel (PL)	10	0				10	
		Fuel Facilities Total		10	0				10	
		Nuclear Materials Users	Licensing	0	1			1		
			Travel (PL)	275	0				275	
			PL-M - Support Staff	0	7					7
		Nuclear Materials Users Total		275	8			1	275	7
		Spent Fuel Storage and Transportation		32	0				32	
		Decommissioning and LLW		178	1				178	1
	Nuclear Materials and Waste Safety Total			**495**	**9**			**1**	**495**	**8**
	Nuclear Reactor Safety	New Reactors	Travel (PL)	7	0				7	
		New Reactors Total		7	0				7	
		Operating Reactors	Event Response	484	1	484	1			
			Licensing	0	0					
			Oversight	0	1		1			
			PL-M Support Staff	180	36				180	36
			Travel (PL)	2384	0				2384	
		Operating Reactors Total		3048	38	484	2		2564	36
	Nuclear Reactor Safety Total			**3055**	**38**	**484**	**2**		**2571**	**36**
REG4 Total				**7780**	**51**	**484**	**2**	**1**	**7296**	**48**

FY 2019 BUDGET RESOURCES FOR REGIONAL OFFICES

				Budget Resources Allocated to Fee Classes						
Program	Program	Business Lines	Product Lines	Total Contract ($,K)	Total FTE	Power Reactors Contract ($,K)	Power Reactors FTE	Materials FTE	Professional Hourly Rate Contract ($,K)	Professional Hourly Rate FTE
REG2	Corporate Support	Corporate Support		4880	2				4880	2
	Corporate Support Total			**4880**	**2**				**4880**	**2**
	Nuclear Materials and Waste Safety	Fuel Facilities	Oversight	0	0					
			Travel (PL)	543	0				543	
			PL-M - Support Staff	0	6					6
		Fuel Facilities Total		543	6				543	6
		Spent Fuel Storage and Transportation		16	0				16	
	Nuclear Materials and Waste Safety Total			**559**	**6**				**559**	**6**
	Nuclear Reactor Safety	New Reactors	Oversight	210	1	210	1			
			Travel (PL)	691	0				691	
			PL-M - Support Staff	0	8					8
		New Reactors Total		901	9	210	1		691	8
		Operating Reactors	Event Response	200	1	200	1			
			Oversight	0	1		1			
			PL-M Support Staff	380	42				380	42
			Travel (PL)	2081	0				2081	
		Operating Reactors Total		2661	44	200	2		2461	42
	Nuclear Reactor Safety Total			**3562**	**53**	**410**	**3**		**3152**	**50**
REG2 Total				**9001**	**61**	**410**	**3**		**8591**	**58**
Grand Total				**32478**	**219**	**2,090**	**9**	**3**	**30388**	**207**

FY 2019 BUDGET RESOURCES FOR OFFICE OF NUCLEAR MATERIAL SAFETY AND SAFEGUARDS

OFFICE: NMSS

Program	Business Lines	Product Lines	Budget Resources Allocated to Fee Classes: Total Contract ($,K)	Total FTE	Power Reactors Contract ($,K)	Power Reactors FTE	Spent Fuel Stor/Reactor Decomm. Contract ($,K)	Spent Fuel Stor/Reactor Decomm. FTE	Fuel Facility Contract ($,K)	Fuel Facility FTE	Test & Research Reactors Contract ($,K)	Materials Contract ($,K)	Materials FTE	Transportation Contract ($,K)	Transportation FTE	Uranium Recovery Contract ($,K)	Uranium Recovery FTE	Fee Relief Contract ($,K)	Fee Relief FTE	Professional Hourly Rate Contract ($,K)	Professional Hourly Rate FTE
Nuclear Materials and Waste Safety	**Fuel Facilities**	Event Response	30	0					30									0	0		
		International Activities	0	5														0	0		
		Licensing	950	19					950	19								0	0		
		Oversight	9	25					9	25								0	0		
		Travel (PL)	412	0														0	0	412	
		Rulemaking (PL)	0	1						1								0	0		
		Generic HLS (PL)	1781	1														0	0		
		PL-M - Support Staff	350	11														0	0	350	11
	Fuel Facilities Total		**3532**	**62**					**989**	**45**								**0**	**0**	**762**	**11**
	Nuclear Materials Users	International Activities	0	1														0	0		
		Licensing	721	37								65.0	26.8					656	10.2		
		Oversight	1030	36	6		6		6		0.5	141.2	28.5					871	7.5		
		State, Tribal and Federal Pgms	262	25		0.8				0.4					0.4			262	23.4		
		Travel (PL)	1373	0														1,090	0	283	
		Rulemaking (PL)	0	9									1.4					0	7.6		
		Generic HLS (PL)	7867	11														0	0		
		PL-M - Support Staff	497	16														0	0	497	16
	Nuclear Materials Users Total		**11750**	**135**	**6**	**0.8**	**6**		**6**	**0.4**	**0.5**	**206.2**	**56.7**		**0.4**			**2,879**	**48.7**	**780**	**16**
	Spent Fuel Storage and Transportation	International Activities	180	1														0	0		
		Licensing	1576	49			1,352	34.9						224	13.8			0	0.3		
		Oversight	0	10				8.5							1.5			0	0		
		Travel (PL)	381	0														0	0	381	
		PL-M - Support Staff	14	12														0	0	14	12
		Rulemaking	0	4		0.4		2.4							1.2			0	0		
	Spent Fuel Storage and Transportation Total		**2151**	**76**		**0.4**	**1,352**	**45.8**						**224**	**16.5**			**0**	**0.3**	**395**	**12**
	Decommissioning and LLW	International Activities	75	4														0	0		
		Licensing	2001	40			0	5								53.7	1.4	1,901	33.4		
		Oversight	111	21				6.4									0.4	111	14.2		
		Travel (PL)	535	0														0	0	535	
		Rulemaking (PL)	100	8														100	8		
		PL-M - Support Staff	12	11														0	0	12	11
	Decommissioning and LLW Total		**2834**	**84**			**0**	**11.4**								**53.7**	**1.8**	**2,112**	**55.6**	**547**	**11**
	Waste Incidental to Reprocessing	Oversight	550	4														0	0		
	Waste Incidental to Reprocessing Total		**550**	**4**														**0**	**0**		
Nuclear Materials and Waste Safety Total			**20817**	**361**	**6**	**1.2**	**1,358**	**57.2**	**995**	**45.4**	**0.5**	**206.2**	**56.7**	**224**	**16.9**	**53.7**	**1.8**	**4,991**	**104.6**	**2484**	**50**

FY 2019 BUDGET RESOURCES FOR OFFICE OF NUCLEAR MATERIAL SAFETY AND SAFEGUARDS

OFFICE NMSS

Program	Business Lines	Product Lines	Budget Resources Allocated to Fee Classes: Total Contract ($,K)	Total FTE	Power Reactors Contract ($,K)	Power Reactors FTE	Spent Fuel Stor/Reactor Decomm. Contract ($,K)	Spent Fuel Stor/Reactor Decomm. FTE	Fuel Facility Contract ($,K)	Fuel Facility FTE	Test & Research Reactors Contract ($,K)	Materials Contract ($,K)	Materials FTE	Transportation Contract ($,K)	Transportation FTE	Uranium Recovery Contract ($,K)	Uranium Recovery FTE	Fee Relief Contract ($,K)	Fee Relief FTE	Professional Hourly Rate Contract ($,K)	Professional Hourly Rate FTE
Nuclear Reactor Safety	**New Reactors**	Licensing	0	0														0	0		
		Travel (PL)	5	0														0	0	5	
		Rulemaking (PL)	0	4		4												0	0		
	New Reactors Total		**5**	**4**		**4**												**0**	**0**	**5**	
	Operating Reactors	Licensing	0	3														0	3		
		Oversight	0	8		8												0	0		
		PL-M Support Staff	0	1														0	0	0	1
		Rulemaking (PL)	505	16	505	16												0	0		
	Operating Reactors Total		**505**	**28**	**505**	**24**												**0**	**3**	**0**	**1**
	Advanced Reactors	Research	0	1														0	0		
	Advanced Reactors Total		**0**	**1**														**0**	**0**		
Nuclear Reactor Safety Total			**510**	**33**	**505**	**28**												**0**	**3**	**5**	**1**
Grand Total			**21327**	**394**	**511**	**29.2**	**1,358**	**57.2**	**995**	**45.4**	**0.5**	**206.2**	**56.7**	**224**	**16.9**	**53.7**	**1.8**	**4,991**	**107.6**	**2489**	**51**

FY 2019 BUDGET RESOURCES FOR OFFICE OF NUCLEAR SECURITY AND INCIDENT RESPONSE

OFFICE NSIR

Program	Business Lines	Product Lines	Budget Resources Allocated to Fee Classes: Total Contract ($,K)	Total FTE	Power Reactors Contract ($,K)	Power Reactors FTE	Spent Fuel Stor/Reactor Decomm. FTE	Fuel Facility Contract ($,K)	Fuel Facility FTE	Materials FTE	Fee Relief FTE	Professional Hourly Rate Contract ($,K)	Professional Hourly Rate FTE
Corporate Support	Corporate Support	Information Technology	0	0							0		
	Corporate Support Total		0	0							0		
Corporate Support Total			0	0							0		
Nuclear Materials and Waste Safety	Fuel Facilities	Event Response	0	2					2		0		
		International Activities	0	1							0		
		Licensing	0	3					3		0		
		Oversight	312	6				312	6		0		
		Travel (PL)	126	0							0	126	
		Rulemaking (PL)	0	2					2		0		
		Generic HLS (PL)	0	2							0		
		PL-M - Support Staff	0	2							0		2
	Fuel Facilities Total		438	18				312	13		0	126	2
	Nuclear Materials Users	Event Response	0	3						0.6	2.4		
		International Activities	0	0							0		
		Licensing	0	1						1	0		
		Travel (PL)	30	0							0	30	
		Rulemaking (PL)	0	1						1	0		
		Generic HLS (PL)	0	3							0		
	Nuclear Materials Users Total		30	8						2.6	2.4	30	
	Spent Fuel Storage and Transportation	Licensing	0	4			4				0		
		Oversight	0	3			3				0		
		PL-M - Support Staff	0	1							0		1
		Rulemaking	0	1			1				0		
	Spent Fuel Storage and Transportation Total		0	9			8				0		1
	Decommissioning and LLW	Travel (PL)	3	0							0	3	
	Decommissioning and LLW Total		3	0							0	3	
Nuclear Materials and Waste Safety Total			471	35			8	312	13	2.6	2.4	159	3

FY 2019 BUDGET RESOURCES FOR OFFICE OF NUCLEAR SECURITY AND INCIDENT RESPONSE

OFFICE	NSIR												
			Budget Resources Allocated to Fee Classes										
Program	Business Lines	Product Lines	Total Contract ($,K)	Total FTE	Power Reactors Contract ($,K)	Power Reactors FTE	Spent Fuel Stor/Reactor Decomm. FTE	Fuel Facility Contract ($,K)	Fuel Facility FTE	Materials FTE	Fee Relief FTE	Professional Hourly Rate Contract ($,K)	Professional Hourly Rate FTE
Nuclear Reactor Safety	**New Reactors**	Licensing	175	6	175	6					0		
		Oversight	600	5	600	5					0		
		Travel (PL)	47	0							0	47	
		Rulemaking (PL)	0	1		1					0		
		PL-M - Support Staff	0	2							0		2
	New Reactors Total		**822**	**14**	**775**	**12**					**0**	**47**	**2**
	Operating Reactors	Event Response	7337	44	7,337	44					0		
		International Activities	0	2							0		
		Licensing	250	22	250	21					1		
		Oversight	3755	69	3,755	69					0		
		PL-M Support Staff	0	27							0	0	27
		Travel (PL)	967	0							0	967	
		Rulemaking (PL)	325	6	325	6					0		
		Generic HLS (PL)	100	7							0		
	Operating Reactors Total		**12734**	**177**	**11,667**	**140**					**1**	**967**	**27**
	Advanced Reactors	Research	0	1							0		
	Advanced Reactors Total		**0**	**1**							**0**		
Nuclear Reactor Safety Total			**13556**	**192**	**12,442**	**152**					**1**	**1014**	**29**
Grand Total			**14027**	**227**	**12,442**	**152**	**8**	**312**	**13**	**2.6**	**3.4**	**1173**	**32**

FY 2019 BUDGET RESOURCES FOR OFFICE OF GENERAL COUNSEL

OFFICE: OGC

Program	Business Lines	Product Lines	Budget Resources Allocated to Fee Classes: Total Contract ($,K)	Total FTE	Power Reactors Contract ($,K)	Power Reactors FTE	Spent Fuel Stor/Reactor Decomm. FTE	Fuel Facility FTE	Materials Contract ($,K)	Materials FTE	Uranium Recovery FTE	Fee Relief Contract ($,K)	Fee Relief FTE	Professional Hourly Rate Contract ($,K)	Professional Hourly Rate FTE
Corporate Support	**Corporate Support**	Administrative Services	0	1								0	0		1
		Policy Support	858	18								0	0	858	18
	Corporate Support Total		**858**	**19**								**0**	**0**	**858**	**19**
		Travel (PL)	6	0								0	0	6	
	Fuel Facilities Total		**6**	**4**				**4**				**0**	**0**	**6**	
	Nuclear Materials Users	International Activities	0	1								0	0		
		Licensing	0	5						4.9		0	0.1		
		State, Tribal and Federal Pgms	0	1								0	1		
		Travel (PL)	14	0								0	0	14	
		Rulemaking (PL)	0	1						1		0	0		
		PL-M - Support Staff	0	1								0	0		1
	Nuclear Materials Users Total		**14**	**10**						**5.9**		**0**	**1.1**	**14**	**1**
		Travel (PL)	13											13	
		Rulemaking	0	1			1					0	0		
	Spent Fuel Storage and Transportation Total		**13**	**6**			**5.5**					**0**	**0**	**13**	
	Decommissioning and LLW	Licensing	0	5							0.1	0	4.9		
		PL-M - Support Staff	0	1								0	0		1
	Decommissioning and LLW Total		**11**	**7**							**0.1**	**0**	**5.9**	**11**	**1**
Nuclear Materials and Waste Safety Total			**44**	**27**			**5.5**	**4**		**5.9**	**0.1**	**0**	**7**	**44**	**2**
Nuclear Reactor Safety	**New Reactors**	Licensing	0	10		10						0	0		
		Oversight	0	2		2						0	0		
		Rulemaking (PL)	0	1		1						0	0		
		PL-M - Support Staff	0	8								0	0		8
	New Reactors Total		**20**	**21**		**13**						**0**	**0**	**20**	**8**
	Operating Reactors	Licensing	0	17		17						0	0		
		Oversight	0	2		2						0	0		
		Training	50	0	48				2			0	0		
		Rulemaking (PL)	0	4		4						0	0		
		Generic HLS (PL)	0	1								0	0		
	Operating Reactors Total		**146**	**35**	**48**	**23**			**2**			**0**	**0**	**96**	**11**
Nuclear Reactor Safety Total			**166**	**56**	**48**	**36**			**2**			**0**	**0**	**116**	**19**
Grand Total			**1068**	**102**	**48**	**36**	**5.5**	**4**	**2**	**5.9**	**0.1**	**0**	**7**	**1018**	**40**

FY 2019 BUDGET RESOURCES FOR ADVISORY COMMITTEE ON REACTOR SAFEGUARDS										
OFFICE	ACRS									
			Budget Resources Allocated to Fee Classes							
Program	Business Lines	Product Lines	Total Contract ($,K)	Total FTE	Power Reactors Contract ($,K)	Power Reactors FTE	Spent Fuel Stor/Reactor Decomm. FTE	Fuel Facility FTE	Professional Hourly Rate Contract ($,K)	Professional Hourly Rate FTE
Nuclear Materials and Waste Safety	**Fuel Facilities**	Licensing	0	1				1		
	Decommissioning and	Licensing	0	1			1			
		Travel (PL)	6	0					6	
Nuclear Reactor	**New Reactors**	Licensing	50	3	50	3				
		Travel (PL)	80	0					80	
		PL-M - Support Staff	0	2						2
	Operating Reactors	Licensing	134	16	134	16				
		PL-M Support Staff	30	2					30	2
		Travel (PL)	375	0					375	
	Advanced Reactors	Research	0	1						
Grand Total			**675**	**26**	**184**	**19**	**1**	**1**	**491**	**4**

FY 2019 BUDGET RESOURCES FOR OFFICE OF INTERNATIONAL PROGRAMS								
OFFICE	OIP							
			Budget Resources Allocated to Fee Classes					
Program	Business Lines	Product Lines	Total Contract ($,K)	Total FTE	Fee Relief Contract ($,K)	Fee Relief FTE	Professional Hourly Rate Contract ($,K)	Professional Hourly Rate FTE
Corporate Support	**Corporate Support**	Policy Support	335	3	0	0	335	3
Nuclear Materials and Waste Safety	**Fuel Facilities**	International Activities	0	1	0	0		
	Fuel Facilities Total		**0**	**1**	**0**	**0**		
		Travel (PL)	350	0	0	0	350	
	Spent Fuel Storage and Transportation	International Activities	0	1	0	0		
	Spent Fuel Storage and Transportation Total		**0**	**1**	**0**	**0**		
	Decommissioning and LLW Total		**0**	**2**	**0**	**0**		
Nuclear Materials and Waste Safety Total			**6250**	**18**	**0**	**0**	**350**	**4**
Nuclear Reactor Safety	**New Reactors**	International Activities	0	2	0	0		
	New Reactors Total		**0**	**2**	**0**	**0**		
	Operating Reactors	International Activities	60	7	0	0		
		PL-M Support Staff	0	6	0	0	0	6
		Travel (PL)	288	0	0	0	288	
	Operating Reactors Total		**348**	**13**	**0**	**0**	**288**	**6**
Nuclear Reactor Safety Total			**348**	**15**	**0**	**0**	**288**	**6**
Grand Total			**6933**	**36**	**0**	**0**	**973**	**13**

FY 2019 BUDGET RESOURCES FOR OFFICE OF ENFORCEMENT

OFFICE: OE

Program	Business Lines	Product Lines	Budget Resources Allocated to Fee Classes: Total Contract ($,K)	Total FTE	Power Reactors Contract ($,K)	Power Reactors FTE	Spent Fuel Stor/Reactor Decomm. Contract ($,K)	Spent Fuel Stor/Reactor Decomm. FTE	Fuel Facility Contract ($,K)	Fuel Facility FTE	Materials Contract ($,K)	Materials FTE	Transportation Contract ($,K)	Transportation FTE	Fee Relief Contract ($,K)	Fee Relief FTE	Professional Hourly Rate Contract ($,K)	Professional Hourly Rate FTE
Corporate Support	**Corporate Support**	Human Resource Mgmt.	0	0											0.0	0		
		Information Technology	0	0											0.0	0		
	Corporate Support Total		**0**	**0**											**0.0**	**0**		
Corporate Support Total			**0**	**0**											**0.0**	**0**		
Nuclear Materials and Waste Safety	**Fuel Facilities**	Oversight	10	2					10.0	2					0.0	0		
		Travel (PL)	4	0											0.0	0	4	
		PL-M - Support Staff	0	1											0.0	0		1
	Nuclear Materials Users	Oversight	47	10			2.0	0.4			41	9	1	0.2	2.9	0.4		
		Travel (PL)	33	0											0.0	0	33	
		PL-M - Support Staff	0	1											0.0	0		1
	Nuclear Materials Users Total		**80**	**11**			**2.0**	**0.4**			**41**	**9**	**1**	**0.2**	**2.9**	**0.4**	**33**	**1**
Nuclear Materials and Waste Safety Total			**94**	**14**			**2.0**	**0.4**	**10.0**	**2**	**41**	**9**	**1**	**0.2**	**2.9**	**0.4**	**37**	**2**
Nuclear Reactor Safety	**New Reactors**	Oversight	6	4	6.0	3.9		0.1							0.0	0		
		Travel (PL)	5	0											0.0	0	5	
		PL-M - Support Staff	0	0											0.0	0		
	Operating Reactors	Oversight	205	18	198.9	17.6	2.1	0.2					2.1	0.1	1.7	0.1		
		PL-M Support Staff	0	5											0.0	0	0	5
		Travel (PL)	42	0											0.0	0	42	
	Operating Reactors Total		**247**	**23**	**198.9**	**17.6**	**2.1**	**0.2**					**2.1**	**0.1**	**1.7**	**0.1**	**42**	**5**
Nuclear Reactor Safety Total			**258**	**27**	**204.9**	**21.5**	**2.1**	**0.3**					**2.1**	**0.1**	**1.7**	**0.1**	**47**	**5**
Grand Total			**352**	**41**	**204.9**	**21.5**	**4.1**	**0.7**	**10.0**	**2**	**41**	**9**	**3.1**	**0.3**	**4.6**	**0.5**	**84**	**7**

FY 2019 BUDGET RESOURCES FOR OFFICE OF INVESTIGATIONS

OFFICE	OI									
			Budget Resources Allocated to Fee Classes							
Program	Business Lines	Product Lines	Total Contract ($,K)	Total FTE	Power Reactors Contract ($,K)	Power Reactors FTE	Materials FTE	Fee Relief FTE	Professional Hourly Rate Contract ($,K)	Professional Hourly Rate FTE
Nuclear Materials and Waste Safety	**Nuclear Materials Users**	Oversight	0	5			4.6	0.4		
		Travel (PL)	131	0				0	131	
		PL-M - Support Staff	0	1				0		1
Nuclear Reactor Safety	**New Reactors**	Oversight	0	2		2		0		
		Travel (PL)	50	0				0	50	
	Operating	Oversight	93	26	93	26		0		
		Training	30	0	30			0		
		PL-M Support Staff	0	8				0	0	8
		Travel (PL)	401	0				0	401	
Grand Total			**705**	**42**	**123**	**28**	**4.6**	**0.4**	**582**	**9**

FY 2019 BUDGET RESOURCES FOR ATOMIC SAFETY AND LICENSING BOARD

OFFICE ASLBP

Program	Business Lines	Product Lines	Budget Resources Allocated to Fee Classes: Total Contract ($,K)	Total FTE	Power Reactors Contract ($,K)	Power Reactors FTE	Spent Fuel Stor/Reactor Decomm. Contract ($,K)	Spent Fuel Stor/Reactor Decomm. FTE	Fuel Facility Contract ($,K)	Fuel Facility FTE	Materials Contract ($,K)	Materials FTE	Uranium Recovery Contract ($,K)	Uranium Recovery FTE	Fee Relief Contract ($,K)	Fee Relief FTE	Hourly Rate Contract ($,K)	Hourly Rate FTE
Corporate Support	**Corporate Support**	Administrative Services	890	1											0.0	0	890	1
	Corporate Support Total		**890**	**1**											**0.0**	**0**	**890**	**1**
Corporate Support Total			**890**	**1**											**0.0**	**0**	**890**	**1**
Nuclear Materials and Waste Safety	**Fuel Facilities**		5	1					5	1					0.0	0		
	Nuclear Materials Users	Licensing	13	1							13.0	1			0.0	0		
		Travel (PL)	17	0											0.0	0	17	
	Spent Fuel Storage and Transportation	Licensing	30	3			30	3							0.0	0		
		Travel (PL)	40	0											0.0	0	40	
	Decommissioning and LLW	Licensing	60	2									60	0.2	0.0	1.8		
		Travel (PL)	22	0											0.0	0	22	
	Decommissioning and LLW Total		**82**	**2**									**60**	**0.2**	**0.0**	**1.8**	**22**	
Nuclear Materials and Waste Safety Total			**187**	**7**			**30**	**3**	**5**	**1**	**13.0**	**1**	**60**	**0.2**	**0.0**	**1.8**	**79**	
Nuclear Reactor Safety	**New Reactors**	Licensing	245	4	245	4									0.0	0		
		Oversight	0	1		1									0.0	0		
		Training	3	0	3										0.0	0		
		Travel (PL)	27	0											0.0	0	27	
	New Reactors Total		**275**	**7**	**248**	**5**									**0.0**	**0**	**27**	**2**
	Operating Reactors	Licensing	85	9	85	9									0.0	0		
		Training	7	0	7										0.0	0		
		PL-M Support Staff	0	4											0.0	0	0	4
Nuclear Reactor Safety Total			**388**	**20**	**340**	**14**									**0.0**	**0**	**48**	**6**
Grand Total			**1465**	**28**	**340**	**14**	**30**	**3**	**5**	**1**	**13.0**	**1**	**60**	**0.2**	**0.0**	**1.8**	**1017**	**7**

FY 2019 BUDGET RESOURCES FOR OFFICE OF THE CHIEF HUMAN CAPITAL OFFICER

OFFICE: OCHCO

Program	Business Lines	Product Lines	Budget Resources Allocated to Fee Classes: Total Contract ($,K)	Total FTE	Power Reactors Contract ($,K)	Power Reactors FTE	Spent Fuel Stor/Reactor Decomm. Contract ($,K)	Fuel Facility Contract ($,K)	Fuel Facility FTE	Test & Research Reactors Contract ($,K)	Materials Contract ($,K)	Materials FTE	Transportation Contract ($,K)	Transportation FTE	Uranium Recovery Contract ($,K)	Fee Relief Contract ($,K)	Fee Relief FTE	Hourly Rate Contract ($,K)	Hourly Rate FTE
Corporate Support	**Corporate Support**	Human Resource Mgmt.	4206	44												0.0	0	4206	44
		Outreach	0	0												0.0	0		
		Training	1864	13												0.0	0	1864	13
	Corporate Support Total		**6070**	**57**												**0.0**	**0**	**6070**	**57**
Corporate Support Total			**6070**	**57**												**0.0**	**0**	**6070**	**57**
Nuclear Materials and Waste Safety	**Fuel Facilities**	Training	619	0				253			38.0					328.0	0		
	Nuclear Materials Users	International Activities	0	0												0.0	0		
		Training	1057	3	116	0.2	24	43	0.2		167.0	0.5	19	0.2		688.0	1.7		
	Spent Fuel Storage and Transportation	Training	138	0			51				10.0		37			40.0	0		
	Decommissioning and LLW	Training	812	0			183	16			64.0				1	548.2	0		
	Decommissioning and LLW Total		**812**	**0**			**183**	**16**			**64.0**				**1**	**548.2**	**0**		
Nuclear Materials and Waste Safety Total			**2626**	**3**	**116**	**0.2**	**258**	**312**	**0.2**		**279.0**	**0.5**	**56**	**0.2**	**1**	**1,604.2**	**1.7**		
Nuclear Reactor Safety	**New Reactors**	Training	1082	9	1,072	9										10.0	0		
		Travel (PL)	43	0												0.0	0	43	
		PL-M - Support Staff	0	1												0.0	0		1
	Operating Reactors	Training	4046	26	3,954	25.4			0.1	8	24.0	0.1		0.1		43.0	0.2		
		PL-M Support Staff	0	3												0.0	0	0	3
		Travel (PL)	130	0												0.0	0	130	
	Operating Reactors Total		**4176**	**29**	**3,954**	**25.4**			**0.1**	**8**	**24.0**	**0.1**		**0.1**		**43.0**	**0.2**	**130**	**3**
Nuclear Reactor Safety Total			**5301**	**39**	**5,026**	**34.4**			**0.1**	**8**	**24.0**	**0.1**		**0.1**		**53.0**	**0.2**	**173**	**4**
Grand Total			**13997**	**99**	**5,142**	**34.6**	**258**	**312**	**0.3**	**8**	**303.0**	**0.6**	**56**	**0.3**	**1**	**1,657.2**	**1.9**	**6243**	**61**

FY 2019 BUDGET RESOURCES FOR OFFICE OF ADMINISTRATION

OFFICE	ADM					
			Budget Resources Allocated to Fee Classes			
Program	Business Lines	Product Lines	Total Contract ($,K)	Total FTE	Hourly Rate Contract ($,K)	Hourly Rate FTE
Corporate Support	**Corporate Support**	Administrative Services	57463	74	57463	74
		Human Resource Mgmt.	150	0	150	
		Information Technology	1269	1	1269	1
		Acquisitions	6136	54	6136	54
	Corporate Support Total		**65018**	**129**	**65018**	**129**
Corporate Support Total			**65018**	**129**	**65018**	**129**
Nuclear Reactor Safety	**Operating Reactors**	Oversight	179	0		
	Operating Reactors Total		**179**	**0**		
Nuclear Reactor Safety Total			**179**	**0**		
Grand Total			**65197**	**129**	**65018**	**129**

Omnibus Budget Reconciliation Act of 1990
(OBRA-90)

Referenced throughout the Final rule

This document is provided as supplemental information. The Final amendments to 10 CFR Parts 170 and 171 are necessary to implement the Omnibus Budget Reconciliation Act of 1990 (OBRA-90), as amended. The OBRA-90, as amended, requires that the NRC recover approximately 90 percent of its budget authority in fiscal year 2019, less the amounts appropriated for Waste Incidental to Reprocessing, Defense Nuclear Facilities Safety Board, Nuclear Waste Fund, and amounts appropriated for generic homeland security activities.

Court Decision, 1993

Allied Signal, Inc. v. NRC and *Combustion Engineering v. NRC*

This document is provided as supplemental information. In 1990 Congress required the NRC to collect annual charges and user fees approximating 100 percent of the agency's budget, effective for fiscal year 1991. NRC's FY 1991 fee rule imposed annual charges against virtually all of the agency's licensees in an effort to be more fair and equitable. Previously, it had levied annual charges only on operating nuclear power reactors, which constitute the most significant group of NRC licensees.

On July 10, 1991 (56 FR 31472), the NRC published a final rule in the *Federal Register* that established the Part 170 professional hourly rate and the materials licensing and inspection fees, as well as the Part 171 annual fees, to be assessed to recover approximately 100 percent of the FY 1991 budget. In addition to establishing the FY 1991 fees, the final rule established the underlying basis and methodology for determining both the Part 170 hourly rate and fees and the Part 171 annual fees. The FY 1991 rule was challenged in Federal court by *Allied Signal, Inc. v. NRC* and *Combustion Engineering v. NRC*.

The court remanded two issues to the NRC for further consideration. Despite the remand, the court did not vacate the rule. One of the remanded issues related to the exemption from annual fees for nonprofit educational institutions. The second remand issue dealt with LLW disposal costs.

Court Decision, 1993

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On July 10, 1991 (56 FR 31472), the NRC published a final rule in the *Federal Register* that established the Part 170 professional hourly rate and the materials licensing and inspection fees, as well as the Part 171 annual fees, to be assessed to recover approximately 100 percent of the FY 1991 budget. In addition to establishing the FY 1991 fees, the final rule established the underlying basis and methodology for determining both the Part 170 hourly rate and fees and the Part 171 annual fees. The FY 1991 rule was challenged in Federal court by *Allied Signal, Inc. v. NRC* and *Combustion Engineering v. NRC*.

The court remanded two issues to the NRC for further consideration. Despite the remand, the court did not vacate the rule. One of the remanded issues related to the exemption from annual fees for nonprofit educational institutions. The second remand issue dealt with LLW disposal costs.

2 of 13 DOCUMENTS

Allied-Signal, Inc., Petitioner v. U.S. Nuclear Regulatory Commission and the United States of America, Respondents Combustion Engineering, Inc., Petitioner v. U.S. Nuclear Regulatory Commission and the United States of America, Respondents Combustion Engineering, Inc., Petitioner v. U.S. Nuclear Regulatory Commission and the United States of America, Respondents Allied-Signal, Inc., Petitioner v. U.S. Nuclear Regulatory Commission, Respondent

No. 91-1407, No. 91-1435, No. 92-1001, No. 92-1019

UNITED STATES COURT OF APPEALS FOR THE DISTRICT OF COLUMBIA CIRCUIT

300 U.S. App. D.C. 196; 988 F.2d 146; 1993 U.S. App. LEXIS 4684

November 5, 1992, Argued
March 16, 1993, Decided

PRIOR HISTORY: [**1] Petitions for Review of An Order of the U.S. Nuclear Regulatory Commission.

COUNSEL: John Hoff, with whom Leonard A. Miller was on the brief, for petitioner Allied Signal, Inc. in Nos. 91-1407 and 92-1019.

Harold F. Reis, with whom Michael F. Healy was on the brief, for petitioner Combustion Engineering, Inc. in Nos. 91-1435 and 92-1001.

L. Michael Reilly, with whom William C. Parler, General Counsel, John F. Cordes, Sr., Solicitor, and E. Leo Slaggie, Deputy Solicitor, U.S. Nuclear Regulatory Commission, and Katherine Adams, Attorney, Department of Justice, were on the brief, for respondents.

JUDGES: Before: Silberman, Williams and D.H. Ginsburg, Circuit Judges. Opinion for the Court filed by Circuit Judge Williams.

OPINION BY: WILLIAMS

OPINION:

[*148] Williams, *Circuit Judge*:

Congress has directed the Nuclear Regulatory Commission to recover 100% of its costs from those who receive its regulatory "services" and to allocate the costs "fairly and equitably" among those recipients. Petitioners Allied Signal and Combustion Engineering challenge an NRC rule making that allocation; they also attack the NRC's denial of various requested exemptions from the fees. They allege that the Commission's [**2] actions did not satisfy Congress's "fair[] and equitable" standard and also were arbitrary and capricious. We agree in part and remand the case to the Commission.

Under authority granted in the Independent Offices Appropriation Act of 1952 ("IOAA"), *31 U.S.C. § 9701*, the Commission has long charged fees to any person who received a "service or thing of value" from the Commission. (That term includes, perhaps oxymoronically, "regulatory services" such as permit processing.) In 1986, Congress expanded the NRC's recovery authority in the Consolidated Omnibus Budget Reconciliation Act of 1985 ("COBRA"), Pub. L. No. 99-272, 100 Stat. 147, and authorized it to recover 33% of its total annual budget through fees. Because IOAA fees could not generate that sum, Congress allowed the NRC to assess fees not only for the service-specific costs covered by IOAA but also for the Commission's *generic* costs of operation (e.g., costs associated with rulemaking proceedings or safety research). Later acts raised the budget recovery level to 45% for the years 1988 through 1990. n1 In carrying out the 33% and 45% recovery mandates, the Commission imposed fees for [**3] generic costs only on licensees who operated nuclear

power reactors, reasoning that they absorbed the most regulatory resources. See *Florida Power and Light Co. v. United States, 289 U.S. App. D.C. 377, 846 F.2d 765 (D.C. Cir. 1988).*

n1 See *Omnibus Budget Reconciliation Act of 1987*, Pub. L. No. 100-203, 101 Stat. 1330-275; *Omnibus Reconciliation Act of 1989*, Pub. L. No. 101-239, 103 Stat. 2132.

In the 1990 Omnibus Reconciliation Act ("1990 OBRA"), Pub. L. No. 101-508, 104 Stat. 1388-299, Congress raised the recovery mandate for 1991-95 to 100% of the Commission's budget, see Pub. L. No. 101-508, § 6101 (codified at *42 U.S.C. § 2214*), and told the Commission to promulgate a rule apportioning the generic fees "fairly and equitably" among licensees. *Id.* at § 6101(c)(3) (codified at *42 U.S.C. § 2214(c)(3)*). The legislation further said that "to the maximum extent practicable, the charges [assessed by the rule] shall have a reasonable [**4] relationship to the cost of providing regulatory services and may be based on the allocation of the Commission's resources among licensees or classes of licensees." *Id.* After notice and comment, the Commission issued a rule purporting to carry out these directions. In doing so, it imposed fees on virtually all licensees. See Revision of Fee Schedules; 100% Fee Recovery (the "Final Rule"), *56 Fed. Reg. 31,472* (July 10, 1991) (codified at 10 CFR §§ 52, 71, 170, and 171).

[*149] I

Allied, a uranium hexafluoride (UF) converter, first complains about the Commission's failure to consider the inability of UF converters to "pass through" OBRA fees to customers--i.e., to recoup them in whole or in part by raising prices. Allied asserts that the Commission's treatment of the issue was inconsistent with OBRA and also with the NRC's treatment of other licensees' passthrough capability.

Allied's claim rests on simple facts. It explains that domestic UF converters compete with foreign UF converters who are not subject to NRC licensing and thus are not required to pay NRC fees. Competition, it says, is stiff; success in bidding on UF conversion contracts often turns on [**5] differentials as small as one cent per pound. Fees imposed under the Final Rule, however, add up to almost five cents per pound of UF. Because adding the fee to their prices will drive customers to foreign converters, domestic UF converters cannot pass the costs forward. Allied draws a sharp contrast between UF converters and other NRC licensees such as electric utilities, which it says are readily able to pass the costs on to customers. The Commission disputes none of these assertions.

Allied's statutory theory rests both on the 1990 OBRA and on the legislative history of 1986 COBRA--the latter being explicitly linked to the 1990 OBRA via its legislative history. Section 6201(c)(3) of the 1990 OBRA (codified at *42 U.S.C. § 2214(c)(3)*), provides that

> the Commission shall establish, by rule, a schedule of charges *fairly and equitably* allocating the aggregate amount of charges -- [necessary to recoup 100% of the Commission's budget].

(Emphasis added.) The Conference Report to the 1990 OBRA states that the Commission has "the discretion ... to assess annual charges against all of its licensees." H.R. Conf. Rep. No. 964, 101st Cong., [**6] 2d Sess. (1990), at 961. At the same time, however, the Report expressly "reaffirms the statement of the [floor] managers [of 1986 COBRA] on the present authority" of the NRC to assess fees. *Id.* That statement in turn declared that it was the "intention of the conferees that, because certain Commission licensees, such as universities, hospitals, research and medical institutions, and uranium producers have *limited ability to pass through the cost of these charges* to the ultimate consumer, the Commission should *take this factor into account* in determining whether to modify [its] current fee schedule for such licensees." 132 Cong. Rec. H3797/3 (March 6, 1986) (emphases added).

The statutory language and legislative history do not, in our view, add up to an immutable mandate to protect classes of licensees with limited ability to pass fees forward. Even the 1986 legislative history, written in the context of COBRA's less-demanding 33% recovery mandate, only directed the Commission to "take ... account" of passthrough considerations, which would not necessarily entail that those considerations control. Moreover, the 1990 Conference Report explicitly said that Congress preserved [**7] NRC's discretion to impose fees on "one or more classes of

non-power-reactor licensees if the Commission believes it can fairly, equitably, and practicably do so." H.R. Conf. Rep. No. 964, 101st Cong., 2d Sess. (1990), at 961. Even if we were to give the legislative history great weight, we could not conclude that Congress has "directly spoken" to whether the Commission must spare licensees that cannot pass the fees forward. See *Chevron v. Natural Resources Defense Council, 467 U.S. 837, 842, 81 L. Ed. 2d 694, 104 S. Ct. 2778 (1984)*. The question therefore is whether the Commission's interpretation is reasonable. See *id. at 845; Chemical Manufacturers Ass'n v. EPA, 287 U.S. App. D.C. 49, 919 F.2d 158, 162-63 (D.C. Cir. 1990)*.

The Commission offered two justifications for its decision to disregard the passthrough concerns of UF converters. First, it argued that it could not adjust fees based on competitive impact because the 100% recovery mandate of 1990 OBRA [**150] would require any abatement of fees for one class of licensees to be recouped from others. See Final Rule, *56 Fed. Reg. at 31,476*; Letter of NRC Denying Allied Exemption [**3] Request at 3-4. However, while one could argue that it is unfair to charge any regulatee more than its pro rata share of generic costs (and not unfair to excuse some regulatees from paying all of their pro rata share when less than 100 percent must be recovered), that potential explanation does not carry the day here. The Commission's willingness to make an exemption for nonprofit educational institutions belies the assertion that it will not charge any regulatee more than its pro rata share.

Nonetheless, the Commission also pointed to an entirely legitimate concern--the difficulty of assessing the ability of its 9000 licensees to pass through costs. See NRC Denial of Allied Exemption Request at 4. A firm's ability to pass through a burden to its customers depends on the price elasticities of supply and demand. "Inelastic suppliers and demanders pay taxes." Donald N. McCloskey, The Applied Theory of Price 324 (1982). (While the fees are technically not taxes, the same principle applies to costs generally.) Because these elasticities are typically hard to discover with much confidence, the Commission's refusal to read the statute as a rigid mandate to do so is not only understandable [**9] but reasonable.

It does not follow, however, that the Commission's application of the statute was in every respect reasonable. If capacity to pass the fees through can be determined with reasonable accuracy and at reasonable cost for specific classes of licensees, there appears no reason why the Commission should not do so. In fact, the Commission *has* made such a determination for another class of licensees, even though that class's claim seems no better founded than the claim of the domestic UF converters.

Specifically, in the Final Rule the Commission exempted nonprofit educational institutions from payment of certain 1990 OBRA fees. See *56 Fed. Reg. at 31,487/1-2, 31,491/1-2; 10 CFR § 171.11(a)*. This appears to be based at least in part on the rationale that such institutions "have a limited ability to pass fee[] costs on to others." Final Rule, *56 Fed. Reg. at 31,477/1-2* (1991). n2 See also *56 Fed. Reg. at 31,487/2* (speaking of educational institutions' "limited ability to pass regulatory costs through to their clients").

n2 This passage relates to the service-specific fees, but no independent justification for the exemption from generic costs appears, and the Commission here seems to assume that the explanation extends to the generic. See Commission Brief at 8, 19-20.

[**10]

The Commission nowhere explains how it was able to make this finding for non-profits but is not able to resolve the elasticity claim one way or the other for domestic UF converters. The Commission does not so much as hint at data relating to the markets in which educational institutions serve their "clients". n3 Neither does the Commission explain why a demand elasticity calculation was any easier or less costly to complete for educational institutions than for UF converters. Thus the Commission's denial of relief for UF converters, both at the rulemaking and the exemption stages, cannot be viewed as reasoned decision-making.

n3 We note that for educational institutions with certain types of licenses, the exemption is unavailable with respect to activities such as "reimbursed services ... [performed for] other persons" and "activities performed under a Government contract". See *10 CFR § 171.13(a)(2)* & (4). This exclusion from the exemption, however, is limited to specific types of licenses, namely "byproduct, source or special

nuclear material licenses."

[**11]

An inadequately supported rule, however, need not necessarily be vacated. See, e.g., *International Union, UMW v. FMSHA, 287 U.S. App. D.C. 168, 920 F.2d 960, 966-67 (D.C. Cir. 1990); Maryland People's Counsel v. FERC, 247 U.S. App. D.C. 333, 768 F.2d 450, 455 (D.C. Cir. 1985); ICORE, Inc. v. FCC, 985 F.2d 1075*, Slip op. at 12 (D.C. Cir. 1993). The decision whether to vacate depends on "the seriousness of the order's deficiencies (and thus the extent of doubt whether the agency chose correctly) and the disruptive consequences of an interim [*151] change that may itself be changed." *International Union, 920 F.2d at 967.*

It is conceivable that the Commission may be able to explain how the principles supporting an exemption for educational institutions do not justify a similar exemption for domestic UF converters. For example, the Commission may develop a reasoned explanation based on an alternative justification that it offered for the non-profit educational institutions' exemption--that "educational research provides an important benefit to the nuclear industry and the public at large and should not be discouraged." *56 Fed. Reg. at 31,477* [**12] *n.* While this reference is quite vague--the benefits of UF conversion can hardly be depreciated merely because the converters operate in a conventional market--perhaps the Commission's focus is on *education*, with the idea that education yields exceptionally large externalized benefits that cannot be captured in tuition or other market prices. We cannot tell at this point whether the exemption for educational institutions could be reasonably rooted in such a theory, but there is at least a serious possibility that the Commission will be able to substantiate its decision on remand.

At the same time, the consequences of vacating may be quite disruptive. Even assuming that we could merely vacate the rule insofar as it denies an exemption for UF converters, the Commission would need to refund all 1990 OBRA fees collected from those converters; in addition it evidently would be unable to recover those fees under a later-enacted rule. See *Bowen v. Georgetown University Hospital, 488 U.S. 204, 208-09, 102 L. Ed. 2d 493, 109 S. Ct. 468 (1988)*. (rejecting retroactive application of rules even if operating only to cure defects in previously enacted rule). Therefore, because of the possibility [**13] that the Commission may be able to justify the Rule, and the disruptive consequences of vacating, we remand to the Commission for it to develop a reasoned treatment of exemption claims based on passthrough limitations.

Combustion Engineering also raised a related passthrough argument--that long-term fixed price contracts in its sector of the industry constrain its ability to pass through costs and therefore require some sort of gradual phase-in. See Comments of Combustion Engineering, May 13, 1991 at 2. On remand, the Commission must address this claim as well.

II

Allied also argues that the Commission's apportionment of fees within the class of domestic UF converters violated the 1990 OBRA. Allied argues (again without dispute by the Commission) that it has required much less regulatory attention than the only other member of the UF converter class, the Sequoyah Fuels Corporation, because of the latter's environmental problems. See NRC Denial of Allied Exemption Request at 7. Thus, Allied says, allocation of the fees equally between the two UF converters violated the 1990 OBRA's directives that OBRA charges be apportioned "fairly and equitably" and that "to the maximum extent [**14] practicable, the charges shall have a reasonable relationship to the cost of providing regulatory services." Pub. L. No. 101-508, § 6101(c)(3) (codified at *42 U.S.C. § 2214(c)(3)*). Allied contends that the Commission instead ought to have divided the class's fees either in proportion to the amount of NRC attention required by each converter or in proportion to the service-specific (IOAA) fees paid by the two converters.

Allied's argument fails because it disregards the premise that 1990 OBRA fees are not service-specific; they do not relate to identifiable services but rather constitute *generic* costs. See Final Rule, *56 Fed. Reg. at 31,472*. Assuming that the Commission correctly classified the costs in question (and Allied does not contest the classification), there is a presumption that even regulatory effort precipitated by the circumstances of a single licensee of a given class will yield results, such as research findings or regulations, of roughly equal importance for all members of the same class.

[*152] This conclusion is not undermined by the Commission's willingness to apportion 1990 OBRA fees

between groups [**15] of licensees on the basis of the situation required by each group. See Final Rule, *56 Fed. Reg. at 31,476;* Letter of NRC Denying Allied Exemption Request at 2, 4-5. First, the spillover of benefits seems far greater *within* a group of licensees than *between* groups. See *id.* at 5. Second, the administrative costs of group-level apportionment are obviously much lower than licensee-level apportionment because the number of licensees greatly exceeds the number of groups.

Here, neither of the measuring devices proposed by Allied was workable or accurate enough to warrant our holding the Commission's rejection of them arbitrary or capricious. Any correlation between a licensee's IOAA (licensee-specific) costs and its benefits from generic costs seems purely coincidental. And to use as a yardstick each member's tendency to precipitate regulatory effort would not only disregard spillover effects but would raise exceptional measurement problems. See NRC Denial of Allied Exemption Request at 4-8.

III

Allied makes a narrower attack on the Commission's rejection of *intra-group* apportionment, namely that the Commission was arbitrary and capricious in failing [**16] to apportion the generic costs associated with the disposal of low level radioactive waste ("LLW") on the basis of each licensee's actual waste. See Final Rule, *56 Fed. Reg. at 31,497; 10 CFR § 171.16(a).* At the class level, the Commission allocated costs in accordance with each class's contribution to the total quantity of LLW. Because materials licensees (a group that includes UF converters) collectively generate 40% of the nation's LLW, the Commission allocated 40% of its LLW costs to that class. See *id.* When it turned to apportionment of those fees among the materials licensees, however, the Commission abandoned that approach and simply assessed each large fuel facility (of which Allied is one) an identical charge of $ 143,500. For explanation, the NRC offered only the conclusory statement that "the Commission ... believes ... the surcharge should be the same for all large fuel facility licensees." See Final Rule, *56 Fed. Reg. at 31,481.*

The Commission provides no rationale for apportioning costs among classes of LLW producers on the basis of LLW output but refusing to apply that same yardstick in apportioning generic costs [**17] within classes, and no rationale is readily apparent. While it is conceivable that the real benefit of LLW disposal services is merely the availability of such services--in which case a flat fee would make sense--any such idea is inconsistent with the Commission's method of apportioning LLW fees among classes of licensees, which appears to assume that benefit is proportional to LLW quantity. If, on the other hand, any licensee's benefit from LLW disposal is directly proportional to its LLW disposal, apportioning even generic costs on the basis of output seems to make sense--not only as to classes but also as to individual licensees. Finally, assuming that the Commission calculated each class's quantity of LLW waste from data supplied by each licensee (as seems necessarily true), it is hard to see any administrative problem with apportioning the fees within the class on the basis of output; the data are available and the required computations would be rudimentary.

.... In applying the balancing of *International Union* and like cases, we here give little weight to the possibility that the Commission could pull a reasonable explanation out of the hat. Nonetheless, vacating the intra-class [**18] apportionment of LLW costs would give licensees a peculiar windfall: even ones that *benefited* from the Commission's choice would presumably be entitled to a refund, and, under *Georgetown University Hospital,* the LLW costs could be recovered from no one. To be sure, the costs are not great, absolutely or as a proportion of the Commission's $ 465 [*153] million budget for FY 1993--$ 3.8 million. See *56 Fed. Reg. at 31,486, 31,497.* But that alone is hardly a reason to create such a windfall. Accordingly, we refrain from vacating the rule. If on remand the Commission concludes that the apportionment must be in accordance with usage, then those firms whose burden is lower under a new, non-arbitrary, rule should be entitled to refunds of the difference.

If indeed the remand leads to replacement of the per-licensee allocation, and licensees enjoy only refunds for the difference between liability under the old rule and liability under the new (rather than total refunds), it might be argued that such a result allows the new rule to have "retroactive effect", in violation of *Georgetown University Hospital. See 488 U.S. at 208.* There [**19] is, plainly, some retroactive effect. The effect, however, is only to define that aspect of the old rule that must be *cut away* as legally excessive. We do not read *Georgetown* as barring so limited a retroactive impact.

IV

Finally, Combustion Engineering challenges the Commission's decision to allocate OBRA fees equally to each low enriched uranium ("LEU") manufacturing license instead of dividing the fees equally among the LEU manufacturing licensees. Combustion owns and operates two LEU facilities, each separately licensed, and Combustion asserts that in the aggregate the two are operationally equivalent to the single-plant, single-license, facilities of the other LEU manufacturers. At oral argument Combustion explained that it has two licenses for the facilities only because of historical chance; it bought a company with a separate license almost 20 years ago and until the Commission implemented the current OBRA fee schedule there has never been any reason to consolidate the licenses. As before, the Commission disputes none of these contentions.

Combustion attacks both the regulation imposing the "equal fee per license" rule and the Commission's denial of an exemption. [**20] Both claims rest ultimately on the 1990 OBRA's direction that fees must be apportioned "fairly and equitably" and that "to the maximum extent practicable, . . . charges shall have a reasonable relationship to the cost of providing regulatory services." Pub. L. No. 101-508, § 6101(c)(3) (codified at 42 U.S.C. § 2214(c)(3)). Although we find the first claim unconvincing, we agree that the Commission has not justified its refusal to give the requested exemption.

The argument that the "equal fee per license" rule is "unfair and inequitable[]" is persuasive only on the ground that the rule produced troubling results when applied to Combustion's circumstances--which Combustion itself asserts are unusual. We see no reason for requiring the Commission to amend to that rather rare situation in the rule itself, cf. *NLRB v. Bell Aerospace Co., 416 U.S. 267, 40 L. Ed. 2d 134, 94 S. Ct. 1757 (1974)*, especially as the generic rule allowed (generically) for exemption. n4

n4 Insofar as Combustion argues, in parallel with Allied, that § 6101(c)(3) of OBRA generally requires intra-group apportionment on the basis of factors such as the amount of attention a licensee requires, the competitive position of the licensee, and the safety risks posed by the licensee's activities, we reject it for the reasons stated as to Allied.

[**21]

Combustion's exemption argument, however, has merit. The Commission's own criteria call for an exemption if the licensee can show that "the assessment of the annual fee would result in a significantly disproportionate allocation of costs to the licensee." *10 CFR § 171.11(d)*. The double assessment against Combustion's two licenses increased its OBRA fees by $ 836,500. Against this, the Commission is able to point to almost nothing by way of greater costs. Speaking to the issue in unusually murky, discursive language, the NRC in substance could point to only two additional burdens--the need to mail an extra copy of certain NRC publications to the second facility and the need for two different NRC regional offices to monitor and respond to [*154] allegations about the two plants. See NRC Denial of Combustion Exemption Request at 5-6.

The double burden for Combustion, measured against *de minimis* additional burdens for the Commission, amply overcomes the hurdle established by *10 CFR § 171.11(d)*. n5 Thus the exemption denial is arbitrary and capricious. We therefore direct the Commission to grant an exemption for Combustion on the additional fees collected as a result of the double-licensing [**22] of its operation. n6

n5 *10 CFR § 171.11(d)* also contains two other factors that the Commission shall consider when evaluating an exemption request. Although parts of § 171.11(d) are ambiguous regarding whether an applicant must fulfill all, or only one, of the factors, the fact that an applicant could not "fulfill" the criterion listed in § 171.11(d)(3)--"any other relevant matter that the licensee believes shows that the annual fee was not based on a fair and equitable allocation of NRC costs"--reveals that the "factors" should not be read as conjunctive requirements. The factors instead seem to be best understood as independent considerations which can support an exemption.

n6 We are not required to address Allied's fee exemption request because of our previous disposition of Allied's other claims. The aspects of Allied's request dealing with passthrough

ability and LLW fees are almost certain to stand or fall along with the remanded claims; and the aspect claiming that OBRA requires licensee-specific calibration of fees fails.

[**23]
* * *

We remand the case to the Commission for a reasoned and coherent treatment of (1) licensees' claims for special treatment on the basis of inability to pass the burden of the fees through to customers; and (2) the method of apportioning generic LLW disposal costs among materials licensees. In addition, we direct the Commission to grant an exemption to Combustion for the generic fees attributable to the double-licensing of its LEU operation.

So ordered.