

AP REGULATORY COMMISSION

WATER TON DE DONE

April 13, 1982

MEMORANDUM FOR:

William O. Miller, Chief

License Fee Management Branch

Office of Administration

FROM:

Herbert N. Berkow, Chief

Management Analysis Branch

Planning and Program Analysis Staff, NRR

SUBJECT:

PROFESSIONAL MANPOWER EXPENDED AND ASSOCIATED COSTS

FOR DIABLO CANYON 1 & 2

In response to your March 26, 1982 memorandum, we are providing the professional staff hours and associated costs for Diablo Canyon 1 & 2. Subsequent to your memorandum we were informed that it would be sufficient to just provide data for the period 4/23/68 to 2/28/81.

The consultant contractual cost for the above period was \$728,899 for Units 1 and 2. We were unable to separate the contractual cost by Units. The total professional staff hours amounted to 75.455, broken out as follows:

Diablo Canyon 1

60,969 (54,409 regular and 6,560 non-regular)

Diablo Canyon 2

14,496 (12,840 regular and 1,656 non-regular)

Of the total hours, 8,449 were charged to the Diablo 1 hearing and 3,352 to Diablo 2.

The manpower data is preliminary. MPA has informed us of some discrepancies. The data will be refined by the time we provide final figures for billing the licensee.

> Herbert N. Berkow, Chief Management Analysis Branch

Planning and Program Analysis Staff, NRR

8502130479 840809 PDR REYNOLD84-564

10 CFR 170.21 Schedule of Facility Fees Fuel (101/10) Power Evenes Issued

	Control of the contro			15 // 1	
				Proposed Scho duk	
		Raylan	74 1977 Cati	74 1981 Cots	
		Mean		City	
Initial Un	s = 1 ST Unit at a SITE				
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	NRR	30,300	1/82480		
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COST RANGE FOR FACILITY AMENDMENTS

CEILING FOR FACILITY INSPECTION FEES

COMMISSION APPROVAL 4/26/84

Power Reactor Professional Reactor Commission
Regular Hours X Rate = Ceiling Approval

Routine Health and Safety and Safeguards Inspections Based on FY 1981 Actual Operating Experiences

Trojan 5,872.5 X \$53 = \$311,243 \$300,000

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	>MFE19	15.800	
	SAFESUARE!	14300	
	To-M Converd	9 166,100	
	Routine Inspection Fees	TEST + Kensen & Kenstas	
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RANGE OF INSPECTION FEFS FOR FACILITY LICENSES FOR INSPECTIONS INDUCTED DURING YEAR

Fac Catanana		ROUTINE INST	PECTION FEES	REACTIVE INSPECTION FEES				
Fee Category	Saf Enon	ety		guards		ety	Safeguards	
	From	To	From	To	From	To	From	To
Power Reactors								
Single Unit Site	\$64,660	\$151,845	\$4,240	\$14,310	\$4,240	\$73,140	-0-	\$5,035
Two Unit Site	54,325	91,6901/	2,385	8,2151/	4,505	27,0301/	-0-	2,650
Three Unit Site	41,505	71,2851/	2,120	6,6251/	7,950	21,7301/	-0-	2,385
Test & Research Reactors	795	2,385	265	795	-0-	795	-0-	795
Possession Only Licenses	424	1,272	53	106	-0-	424	-0-	424

Footnotes:

7

^{1/} Range Applies To Each Unit At The Site.

Calculation Range Of Inspection Fees For Facility Licenses for Inspections Conducted During Year

	Profess		Safety	Inspections		Profess.		eguards	Inspect fons		R	eactive Safe	ty Inspect	tons	React	ive Sa	feguerds	Inspections	
facility	Inspect! Itme (M/II) From	on I	Cost Per M/H	- Cost	Range	Inspection Time (M/H)		Cost Per M/H -	Cost		Profes Inspect Time (M/H)	fon Cost Per X H/H	- Cost	: Range	Profess. Inspection Time (M/H) From	X To	Cost Per M/H -	Cost 9	Range
Power Reactors							- 60		1100	10	From	10	From	10	1100	10		From	10
Single Helt Site	1,220	2,865	\$53	\$64,660	\$151,845	80	270	\$53	\$4,240	\$14,310	80	1,380 \$53	\$4,240	\$73,140	-0-	95	\$53	-0-	15,035
Two Unit Stre	1,025	1,730	\$53	\$54,325	\$91,690	45	155	\$53	\$2,385	\$8,215	85	510 553	\$4,505	\$27,030	-0-	50	\$53	-0-),650
Three "all Site	2-5	1,345	\$53	\$41,605	. \$71,285	40	125	\$53	\$2,120	\$6,625	150	410 \$53	\$7,950	\$21,730	-0-	45	\$53	-0-	\$2,385
Test & Research Feachers	15	45	150	\$795	\$2,385	,	15	\$53	\$285	\$795	-0-	15 553	-0-	\$795	-0-	15	\$53	-0-	\$795
Possous from Only		24	153	\$424	\$1,272	1	2	\$53	153	\$106	-0-	8 \$53	-0-	\$424	-0-		\$53	-0-	5424

Range of Inspection Manpower Expected Per Typical Licensee For Inspections Conducted During FY 1981 (Man-Hours)

		Reactive Inspections						
Category	Routine Insp Safety		Safeguards		Safety		Safeguards	
(170.23 & 170.24)	From	To	From	<u>To</u>	From	To	From	To
Power Reactor Sites: Single Unit	1,220	2,865	80	270	80	1,380	0	95
Dual Unit ·	1,025	1,730	45	155.	85	510	0	50
Triple Unit	785	1,345	40	125	150	410	0	45
Test and Research Reactors	15	45	5	15	0	15	0	15(

Production or Utilization Facility Licensed for possession but not operation

170.32

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New Categories

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lon Exchange facilities

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173 9	50-531	9	GESSAR 251 1/75- 5/77 (general 41-50; wasternam incom)	3750,5	147,440	234391	
5	To. 114	10		2542.5	99158	157635	
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REQUILIFICATION AND KERLINGEMENT EMMUNIONS

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Special Projects For Facilities As Of September 1981

	Licensee	DAZOF	Invoice No.	Friend	
		Compet-in		-	-
1.	American Institute of Steel Construction		124-81		\$ 6,435
2.	Consumers Power		125-81		780
3.	Westinghouse Electric		126-81		78
4.	C. F. Braun & Company		173-81		39
5.	Southern California Edison		174-81		312
6.	Exxon Company		175-81		312
7.	Commonwealth Edison Company		176-81		390
8.	Dairyland Power Coop.		208-81		760
9.	Connecticut Yankee		210-81		1,368
10.	General Electric		300-81		78
11.	Burns & Roe, Inc.		301-81		273
12.	Babcock & Wilcox		302-81		117
13.	Westinghouse Electric		328-81		39
14.	Commonwealth Edison		351-81		390
15.	General Electric (BASIC Topica Repent)	11-12-80	452-81	45	1,755
16.	Ebasco Services		453-81		975
17.	Virginia Electric & Power Company (BASICTA).	11-7-80	454-81	56	1,404 *
18.	Carolina Power & Light		545-81		342
19.	So. California Edison		558-81		152
20.	Duke Power Company		577-81		38
21.	Duke Power Company		578-81		266
22.	NL Industries (Commonwealth Ed)		579-81		608
23.	General Electric Company		592-81		562
24.	Anaconda Ericsson, Inc.		593-81		429
25.	Commonwealth Edison Company		594-81		351
26.	General Atomic		595-81		312
27.	Dairyland Power Coop.		624-81		76
28.	Nuclear Fuel Services		625-81		1,995
29.	Florida Power & Light	- 11	626-81		2,535
30.	Virginia Electric & Power Company Sante Top			-	2,028 +
31.	Westinghouse Electric (Basic Topical Kepnt)	5-7-81		7235	20,000 *
32.	Combustion Engineering (for Baltimore Gas Electric)		640-81		190
33.	Dairyland Power Coop.		641-81		38
34.	Jersey Central Power & Light		644-81		76
35.	Public Service of Colorado		645-81		. 76
36.	Mississippi Power & Light Company		782-81		1,989
37.	Westinghouse Electric (Basic Topual Report) General Electric	5-22-8	783-81 836-81	1,433	20,000 *
39. 40.	General Electric So. California Edison		836-81 854-81		20,000
		TOTAL FAC	CILITIES SPECIAL		
			PROJECTS		\$107,720
			MODECIS		

^{*} SASIE OR NEWT PILM REPORT Applications Completed in ty 19 51 (NO REVISIONE IN AMENDMENTS)

Special Projects For Facilities thru September 1982

Licensee	DATE OF COMPASTION	Invoice No.	Professional Fee Hours
Tennessee Valley Authority * 4	-5-18-80	A-0006	\$ 1,482
Commonwealth Edison 12.17418	7/1+7/11/81	A-0008	117
Duke Power Company am No 5	7-14-51	A-0009	741
Ebasco Service Inc. Las 10	6.10.81	A-0010	156
= Duke Power Company (BAS 12 12eport)	7-29-81	A-0039	298 12,480*
General Electric (Bosic Report)	81.9181	A-0071(394 20,000 *
General Electric (Basic Raport)	8/19/81	A-0071	20,000 *
Exxon Nuclear Sage 3	8.17.81	A-0093	702
Duke Power (Route Approval)		A-0094	228
Omaha Public Power (Route Approval)	-	A-0095	228
ATCOR Engineering Systems (Basic Repo	1) 9-3-81	A-0102	276 11,505
Chem Nuclear Systems (Basic Report)	12-5-51 will all	A-0113	624
So. California Edison Kw. 1	10.36.81	A-0119	624
Exmon Nuclear Company &m . 4	11-2-81	A-0120	4,902
Baucock & Wilcox Company &	11-16-51	A-0131	897
Exxon Nuclear Company 4050c	11-10-81	A-0132	13,299
Consumer Power Suisic	1-12.82	A-0151	5,577
Commonwealth Edison Les 19	5.30.81	A-0154	117
American Institute of Steel Constitute	iction, Inc. +244	A-0156	546
Consumer Power Company (Route Appro	val) —	A-0181	266
Nuclear Fuel Service - West Valley		A-0185	1,102
Commonwealth Edison Company Pu 20	3-12.82	A-0187	78
Westinghouse Electric Company Lev	1 12-1-81	A-0188	10,725
So. California Edison Ru. 5	3.19.82	A-0190	117
Northeast Utilities Eu 4	4.9.82	A-0236	390
Babcock & Wilcox Company to	4.9.82	A-0241	3,159
Public Service Co. of Colorado (Rou	te Approval) —	A-0281	152
Ebasco Services Ru !!	5-17-52		351
Yankee Atomic Electric Co. Far. //	5-24-62	A-0285	117
Consumers Power Co. FL 12	5 19 12		78
Ex Nuclear K 4	4-14-61	A-0287	156
VEPCO (Route Approval)		A-0321	418
Public Service Co. (Route Approval)		A-0325	152
* Box is in New Topical Report Application	Completed in #419F1	Total	\$111,486

* Sucre on New Topical Report Applications Constitutes in ty 1981

SNM, Source and Byproduct Materials

Special Projects1/ As Of September 1981

Licensee	Docket No.	Invoice No.	Fee
Union Carbide	70-687	320-80	\$ (304) ² /
General Electric	70-754	207-81	589
Tri-State Motors	70-1739	209-31	152
General Atomic	70-734	211-81	494
Battelle	70-8	559-81	494
General Electric	70-754	627-81	494
General Electric	70-754	674-81	228
General Electric	70-754	643-31	247
General Electric	70-754	642-81	399
General Electric	70-7754	740-81	190
Duke Power	70-2623	781-81	-2,356
	Tota	1 SP - Materials	\$5,339

All of the special projects were route approvals. - No Top am Repeat

^{2/} Refund of route approval fee. Manpower reported in FY 1980 was in error.

SMM, Source and Byproduct Materials Special Projects

Thru September 1982

Licensee	Docket No.	Invoice No.	Fee
General Electric	70-754	- A-0038 · PE	\$ 38- PA
Union Carbide	70-687	A-0073	190 RA
General Electric Co.	70-754	A-0074	76 RA
Tri-State Motor Transit	70-1739	A-0114	2,242 PP
Battelle	70-8	A-0133	114 KA
Babcock & Wilcox	70-824	A-0157	190 RA
Duke Power	70-2623	A-0164	228 LA
General Electric Co.	70-754	A-0193	190 67
Battelle	70-8	A-0213	114 2/7
General Electric Co.	70-754	A-0214	228 CF
General Atomic	70-734	None	190 RA
Tri-State Motor Transit	70-1739	A-0288	· Ela 38 - Sec.
General Atomic	70-734	A-0289	228 RA
Combustion Engineering	70-1100	A-0322	114. RA
Union Carbide	70-687	A-0323	190 RA
Tri-State Motor Transit	70-1739	A-0328 See . TOTA	Plan 418 - Sec.

Allogothe Special projets were route offerers

10 CFR 170.31 Schedule of Materials Licenses

Comparison of NMS Re Ceilings With Proposed 11 Rule(Top of Range) Fuel Cycle and Transportation Categories

Fee Category	New Licen Ceilings 1/	Top of Range	Renewal Ceilings 1	Fees /Top of Range 11/22/82	Amendment Fees Ceilings 1/ Top of Ran 11/22/82		
1A	Full Cost	\$825,000	\$140,600	\$313,000	\$190,200	\$170,000	
18	Full Cost	616,000	140,600	261,000	138,000	147,000	
10	Full Cost	1,444,000	Full Cost	461,000	Full Cost	222,000	
10	Full Cost	408,000	52,200	114,000	63,800	121,000	
1E	Full Cost	1,083,000	52,200	280,000	46,400	170,000	
1F	Full Cost	408,000	52,200	114,000	46,400	120,000	
16	Full Cost	288,000	20,300	104,000	40,600	68,000	
14,	Full Cost	609,000	Full Cost	No Estimate	Full Cost	159,000	
1H2	405,200	419,000	Full Cost	No Estimate	Full Cost	159,000	
2A	341,000	343,000	105,400	128,000	44,000	54,000	
2B (Prod.) (R & D)	267,800 54,200	258,000 91,000	73,000 31,100	91,000 40,000	44,000 24,720	43,000 22,000	
20	Full Cost	407,000	140,600	209,000	103,200	112,000	
2D	Full Cost	54,000	140,600	22,000	103,200	11,000	
2E	Full Cost	Full Cost	Full Cost	Full Cost	Full Cost	Full Cost	
4A	803,700	818,000	285,600	409,000	46,400	152,000	
10A	204,400	164,000	1,400	1,400	123,200	43,000	
108	167,800	143,000	1,400	1,400	98,200	43,000	
100	96,400	65,000	900	900	61,600	32,000	
100	53,200	43,000	900	900 .	35,800	16,000	
10E	37,400	27,000	900	900	25,800	16,000	

	D	New License	Review		Renewa 1	Review		Amendment	Review
Fee Category	Profess. Process Time (S/H) X	Cost Per S/H =	New License Fee	Profess. Process Time (S/H)	Cost Per S/H	Renewal Fee	Profess. Process Time (S/H) X	Cost Per S/H =	Amendment fee
1A SNM Licenses For Processing & Fuel Fabrication Highly Enriched Uranium (>20%)									
Safety Review Safety Contracts Subtotal Safety	Fu	ill Cost		700	\$58	\$ 40,600 100,000 \$140,600	400	\$58	\$ 23,200 80,000 \$103,200
Safeguards							1,500	\$58	37,000
Total						\$140,600			\$190,200 17
1B SNM Licenses For Processing & Fuel Fabrication Low Enriched Uranium (<20%)									
Safety Review Safety Contracts Subtotal Safety	Fu	11 Cost		700	\$58	\$ 40,600 100,000 \$140,600	400	\$58	\$ 23,200 80,000 \$103,200
Safeguards							600	\$58	34,800
Total						\$140,600			\$138,000

	Profess.	New License	Review		Renewal Review			Amendment Review			
Fee Category	Process Time	Cost Per X S/H =	New License Fee	Profess. Process Time (S/H) X	Cost Per S/H =	Renewa i Fee	Profess . Process Time (S/H)	Cost Per X S/H =	Amendaes t		
IC SNM License For Plutonium Processing and Fuel Fabrication Plants											
Safety Review Safety Contracts Subtotal Safety		Full Cost			Full Co	st		Full Cost			
Safeguards											
Total											
1D SNM Licenses with quantities of 5Kgs or more of U-235 or 2Kgs or more of U-233 for other than fuel processing or fabrication											
Safety Review Safety Contracts Subtotal Safety		Full Cost		900	\$58	\$52,200 \$52,200	400	\$58	\$23,200		
Safeguards						-	700	\$58	40,600		
Total						\$52,200			\$63,800		

	Dunfare	New License	Review		Renewal	Review		Amendment F	Review
Fee Category	Profess. Process Time (S/H)	Cost Per X S/H =	New License Fee	Profess. Process Time (S/H) X	Cost Per S/H =	Renewal Fee	Profess. Process Time (S/H) X	Cost Per S/H *	Amendam Fee
TE SNM Licenses For Possession and Use of quantities of plutonium of 2Kgs or more for activities other than fuel processing									
Safety Review Safety Contracts Subtotal Safety		Full Cost		900	\$58	\$52,200 \$52,200	100	\$58	\$ 5,800
Safeguards							700	\$58	40,600
Total						\$52,200			\$46,400
1F SNM Licenses For Possession and Use of 200 grams but less than 2Kgs of plutonium									
Safety Review Safety Contracts Subtotal Safety		Full Cost		900	\$58	\$52,200 \$52,200	100	\$58	\$ 5,800
Safeguards							700	\$58	40,600
Total						\$52,200			\$46,400

PRIMERROUSE OF THESE SHEET SHEET SHEET

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		New License	Review		Renewa 1	Review		Amendment Rev	rew
Fee Category	Profess. Process Time (S/H)	Cost Per S/H =	New License Fee	Profess. Process Time (S/H) X	Cost Per S/H =	Renewal Fee	Profess. Process Time (S/H) X	Cost Per S/H =	Amendment Fee
1G SNM Licenses For quantities of 350 grams but less than 5Kgs of U-235 or 200 grams but less than 2 Kgs of U-233									
Safety Review Safety Contracts Subtotal Safety		Full Cost		350	\$58	\$20,300	100		\$ 5,800 \$ 5,800
Safeguards							600	\$58	34,800
Total						\$20,300			\$40,600
IH Spent Fuel Storage (1) Licenses for receipt & storage of spent fuel where the independent spent fuel storage in- stallation is to be lo- cated at a new site									
Safety Review Safety Contracts Subtotal Safety		Full Cost			Full Co	ost		Full Cost	

Safeguards

Total

	Frofess.	New Licens	e Review		Renewal Review		Amendment Review
Fee Category	Process Time (S/H) X	Cost Per S/H =	New License Fee	Profess. Process Time (S/H) X	Cost Per Renewal S/H = Fee	Profess. Process Time (S/H) X	Cost Per Amendon S/H = Fec
IH Spent Fuel Storage (2) Licenses for receipt and storage of spent fuel where the indepen- dent spent fuel storage installation is to be located at the site of an existing facility			:				
Safety Review Safe(y Contracts Subtotal Safety	4,000	\$58	\$232,000 150,000 \$382,000		Full Cost		Full Cost
Safeguards	400	\$58	23,200				
Total			\$405,200				
I. License authorizing decommissioning, decontamination, reclamation or restoration activities							
Safety Review			Full Cost		Full Cost		Full Cost
2A Licenses for Milling operations							
Safety Review Safety Contracts	2,000	\$58	\$116,000 225,000	1,300	\$58 \$75,400 _30,000	500	\$58 \$29,000 15,000
Total			\$341,000		\$105,400		\$44,000

CONCURACION OF MALET 1013 ETCCHSC ICC

	Profess.			Profess.			Amendment Review		
Fee Category	Process Time (S/H) X	Cost Per S/H =	New License Fee	Process Time (S/H) X	Cost Per S/H =	Renewal Fee	Profess. Process Time (S/H) X	Cost Per S/H *	Amendon (.)
2B Licenses for processing and recovery of source material in in-situ leaching or heap leach operations									
Commercial Scale In-situ Safety Review Safety Contracts	1,600	\$58	\$92,800 175,000	1,000	\$58	\$58,000 15,000	500	\$58	\$29,000 15,000
Heap Leach and R&D Scale In-situ			\$267,800 _2/			\$73,000			\$44,000 -3/
Safety Review Safety Contracts	675	\$58	\$39,150 15,000	450	\$58	\$26,100 5,000	340	\$58	\$19,720 5,000
Total			\$54,150			\$31,100			\$24,720 4

^{.2/} Since NMSS cost estimate of 9/29/83 exceeds the top of the range shown in the 11/22/82 proposed rule of \$258,000, the lower fee will be used.

Since NMSS cost estimate of 9/29/83 exceeds the top of the range shown in the 11/22/82 proposed rule of \$43,000, the lower fee will be used.

Since NMSS cost estimate of 9/29/83 exceeds the top of the range shown in the 11/22/82 proposed rule of \$22,000, the lower fee will be used.

	Profess	Profess.			Profess.					le ···w	
Fee Category	Process Time (S/H)	<u>x</u>	Cost Per S/H	New License Fee	Process Time (S/H)	x	Cost Per S/H =	Renewa 1 Fee	Profess. Process Time (S/H) X	Cost Per S/H =	As ridine to
2C Licenses for refining uranium mill concentrates to uranium hexafluoride											
Safety Review Safety Contracts		Ful	I Cost		700		\$58	\$40,600 100,000	400	\$58	\$23,200 80,000
Total								\$140,600			\$103,200
2D Licenses for ion exchange and ore-buying stations											
Safety Review Safety Contracts		Ful	1 Cost		700		\$58	\$40,600 100,000	400	\$58	\$23,200 80,000
Total								\$140,600 _5/			\$103,200
2E Licenses authorizing decommissioning, reclamation or restoration activities.											
Safety Review		Ful	Cost				Full Co	ost		Full Cos	t

^{5/} Since NMSS cost estimate of 10/7/83 exceeds the top of the range shown in the 11/22,32 proposed rule of \$22,000, the lower fee will be used.

 $[\]frac{6}{}$ Since NMSS cost estimate of 10/7/83 exceeds the top of the range shown in the 11/22/82 proposed rule of \$11,000, the lower fee will be used.

	Profess.			Renewal Review			Amendment Review		
Fee Category	Process Time (S/H) X	Cost Per S/H =	New License Fee	Profess. Process Time (S/H) X	Cost Per S/H =	Renewal Fee	Profess. Process Time (S/H) X	Cost Per S/H =	Amendos (3)
4A Commercial waste disposal involving burial or licenses authorizing contingency storage of low level waste at power reactor sites.									
Safety Review Safety Contracts	7,650	\$58	\$443,700 360,000	3,200	\$58	\$185,600 100,000	800	\$58	\$46,400
10A Evaluation of spent fuel casks for greater than W decay heat			\$803,700 Approval Fee			\$285,600			\$46,400
.y t icts	1,800	\$58	\$104,400 100,000	24	\$58	\$ 1,392	400	\$58	\$23,200 100,000
Total			\$204,400 _7/			\$ 1,392			\$123,200

Since the NMSS cost estimate of 10/7/83 exceeds the top of the range shown in the 11/22/82 proposed rule of \$164,000, the lower fee will be used.

^{8/} Since the NMSS cost estimate of 10/7/83 exceeds the top of the range shown in the 11/22/82 proposed rule of \$43,000, the lower fee will be used.

	Profess	Profess.			Renewal	Review	Amendment Review			
Fee	Process Time (S/H) X	Cost Per S/H =	Approval Fee	Profess. Process Time (S/H)	Cost Per S/H =	Renewal Fee	Profess. Process Time (S/H) X	Cost Per S/H =	Amendam :	
10B Evaluation of spent fuel casks for less than 20 W decay heat; air shipping packages for Pu, etc.										
Safety Review Safety Contracts	1,600 Total Safety	\$58	\$92,800 75,000 \$167,800 9/	24	\$58	\$1,392 	400	\$58	\$23,200 75,000 \$93,200	
10C Evaluation of fissile packages containing greater than type "A" quan- tities										
Safety Review Safety Contracts	800 Total Safety	\$58	\$46,400 50,000 \$96,400 11/	16	\$58	\$ 928 - \$ 928	200	\$58	\$11,600 50,000 \$61,600	

 $[\]frac{9}{}$ Since the NMSS cost estimate of 10/7/83 exceeds the top of the range shown in the 11/22/82 proposed rule of \$143,000, the lower fee will be used.

Since the NMSS cost estimate of 10/7/83 exceeds the top of the range shown in the 11/22/82 proposed rule of \$43,000, the lower fee will be used.

Since the NMSS cost estimate of 10/7/83 exceeds the top of the range shown in the 11/22/82 proposed rule of \$65,000, the lower fee will be used.

Since the NMSS cost estimate of 10/7/83 exceeds the top of the range shwon in the 11/22/82 proposed rule of \$32,000, the lower fee will be used.

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		Denters	New License	e Review			Renewal	Review		Amendment R	leview
Fee Category		Profess. Process Time (S/H) X	Cost Per S/H =	Approval Fee	Profess. Process Time (S/H)	<u>x</u>	Cost Per S/H =	Renewal Fee	Profess. Process Time (S/H) X	Cost Per S/H =	Amendar :
10D Evaluation of fissile packages containing less than type "A" quantities											
Safety Review Safety Contracts	Total	400 Safety	\$58	\$23,200 30,000 \$53,200	16		\$58	\$928 	100	\$58	\$ 5,800 30,000 \$35,800
10E Evaluation of package containing radioactive material less than 20 times the type "A" quantity											
Safety Review Safety Contracts		300	\$58	\$17,400 20,000	16		\$58	\$928	100	\$58	\$ 5,800 20,000
	Total	Safety		\$37,400 15/				\$928			\$25,800 10

Since the NMSS cost estimate of 10/7/83 exceeds the top of the range shown in the 11/22/82 proposed rule of \$43,000, the lower fee will be used.

Since the NMSS cost estimate of 10/7/83 exceeds the top of the range shown in the 11/22/82 proposed rule of \$16,000, the lower fee will be used.

15/ Since the NMSS cost estimate of 10/7/83 exceeds the top of the range shown in the 11/22/82 proposed rule of \$27,000, the lower fee will be used.

^{16/} Since the NMSS cost estimate of 10/7/83 exceeds the top of the range shown in the 11/22/82 proposed rule of \$16,000, the lower fee will be used.

OFFICE O	- NUCLEAR	MATERIAL	SAFETY	AND SA	FEGUARDS
Det	mination	of Mate	rials L	cense	100

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	rEl	CATEGORIES	TYPE OF LICENSE	Profess. Process Time (S/H)	Cost Per x <u>S/H</u>	Fee
	SPE	CIAL NUCLEAR MATERIAL				
	J.	Licenses for possession and	New License	4	\$58	\$230
		use of special nuclear material in sealed sources	Renewa 1	2		120
		<pre>contained in devices used in industrial measuring systems.</pre>	Amendment	1		60
	K	All other special nuclear	New License	6	\$58	\$350
		material licenses, except licenses authorizing	Renewa 1	6		350
		special nuclear material in unsealed form in combination that would constitute a critical guantity as defined in \$ 150.11 of Part 150 which shall pay fees in accordance with Category 1A.	Amendment	2	11	120
	Sol	RCE MATERIAL				
	F.	Use of source material	New License	1	\$58	\$60
		for shielding.	Renewai	1		60
			Amendment	1		60
	6.	All other source material	New License	6	\$58	\$350
		licenses.	Renewal	4		230
			Amendment	2		120
	ВҮР	RODUCT MATERIAL				
	A.	Licenses of broad scope for	New License	20	\$58	\$1,200
_		product material issued	Renewal	12		700
. : 1		pursuant to Parts 30 and 33 of this chapter for processing or manufacturing of items containing byproduct material for commercial distribution to specific licensees.	Amendment	2	•	120

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FEL		TYPE OF LICENSE	Profess. Process Time (S/H) x	Cost Per S/H	= Fee
	PRODUCT MATERIAL (con't.)				
	Other licenses for possession	New License	8	\$58	\$460
В.	and use of byproduct material	Renewa!	8		460
	issued pursuant to Part 30 of this chapter for processing or manufacturing of items containing byproduct material for commercial distribution to specific licensees.	Amendment	2	"	120
c.	I ICELIZED 1330Cg bai segue	New License	24	\$58	\$1,400
	\$32.72, 32.73 and/or 32.74 of Part 32 of this chapter authorizing the processing or manufacture and distribution of radiopharmaceuticals, generators, reagent kits and/or sources and devices containing byproduct material.	Renewal	24		1,400
		Million Linear Land	4		230
D	Licenses issued pursuant to	New License	12	\$58	\$700
D	§32.72, 32.73 and/or 32.74 of Part 32 of this chapter authorizing distribution of radiopharmaceuticals, generators, reagent kits and/or sources or devices not involving processing of byproduct material.	Renewal	12	n	700
		Amendment	2	"	120
E.	Licenses for possession and	New License	4	\$58	\$230
	use of byproduct material in sealed sources for irradiation	Renewal	3		170
	of materials where the source is not removed from its shield (self-shielded units).	Amendment	2	"	120
F.		New License	10	\$58	\$580
	use of less than 10,000 curies of byproduct material in sealed	Renewal	6	"	350
	sources for irradiation of materials where the source is exposed for irradiation purposes.	Amendment	4	11	230
	Licenses for possession and	New License	40	\$58	\$2,300
	use of 10,000 curies or more of byproduct material in	Renewa1	16		930
	sealed sources for irradiation of materials where the source is exposed for irradiation purposes.	Amendment	4		230

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L. (CATEGORIES	TYPE OF LICENSE		Profess. Process Time (S/H)	×	Cost Per S/H	<u>Fee</u>
BYP	PRODUCT MATERIAL (con't.)						
н.	Licenses issued pursuant to	New License		10		\$58	\$580
	subpart A of Part 32 of this chapter to distribute items	Renewal		4			230
	containing byproduct material which require device review to persons exempt from the licensing requirements of Part 30 of this chapter.	Amendment		2			120
1.	Licenses issued pursuant to	New License		5		\$58	\$290
	subpart A of Part 32 of this chapter to distribute items	Renewal	g.	4		"	230
	containing byproduct material or quantities of byproduct material which do not require device evaluation to persons exempt from the licensing requirements of Part 30 of this chapter.	Amendment		1		•	60
J.	Licenses issued pursuant to	New License		20		\$58	\$1,200
	subpart B of Part 32 of this chapter to distribute items	Renewal		12		et .	700
co wh ar pe ur ch li tr ha di ge	which require sealed source and/or device review to persons generally licensed under Parts 31 or 35 of this chapter, except specific licenses authorizing redistribution of items which have been authorized for distribution to persons generally licensed under Parts 31 or 35 of this chapter.	Amendment		4		n	230
K.	Licenses issued pursuant to	New License		5		\$58	\$290
	subpart B of Part 32 of this chapter to distribute items	Renewal		4			230
	containing byproduct material or quantities of byproduct which do not require sealed source and/or device review to persons generally licensed under Parts 31 or 35 of this chapter.	Amendment		1		•	60

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F. (CATEGORIES	TYPE OF LICENSE	Profes- Process Time (S/H)	Cost Per x S/H	Fee
BYP	RODUCT MATERIAL (con't.)				
		New License	20	\$58	\$1,200
L.	possession and use of byproduct		12		700
	Parts 30 and 33 of this	Penewal			
	chapter for research and development which do not authorize commercial distribution.	Amendment	2		120
M.	Other licenses for possession	New License	12	\$58	\$700
	and use of byproduct material issued pursuant to Part 30 of	Renewal	8		460
	this chapter for research and development which do not authorize commercial distribution.	Amendment	2		120
N.	Licenses which authorize	New License	16	\$58	\$930
N.	services for other licenses, except for leak testing and waste disposal pickup services.	Renewal	16		930
		Amendment	2		120
0.	Licenses for byproduct	New License	12	\$58	\$700
	material issued pursuant to Part 34 of this chapter for industrial radiography operations.	Renewal	12		700
		Amendment	4		230
Р.	All other specific byproduct	New License	4	\$58	\$230
	material licenses, except those in the categories 4A	Renewal	4 4	"	230
	through 9B.	Amendment	1	"	60
WAS	STE DISPOSAL				
В.	Licenses specifically	New License	24	\$58	\$1,400
	authorizing the receipt of waste byproduct material,	Renewal	16		930
	nuclear material, or special nuclear material from other persons for the purpose of packaging or repackaging the material. The licensee will	Amendment	6	"	350
	dispose of the material by transfer to another person		c 2 hours to a		
	authorized to receive or		clicenses in Fe	٠.	
	dispose of the material.	FATEBURY !	σ.		

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	OFFICE OF MUST AF	MATERIAL SAFETY	AND SAFEGUE TS	(con't.)		,	
	CATEGORIES	TYPE OF LICENSE	Profess. Process Time (S/H)	Cost Per x S/H		Fee	
WAS	TE DISPOSAL (con't.)						
c.	authorizing the receipt of prepackaged waste byproduct material, source material, or special nuclear material from other persons. The licensee will dispose of the material by transfer to another person authorized to	New License Renewal	16 8	\$58		\$930 460	
		Amendment	2	11		120	
	receive or dispose of the material.			MOTE:			
D.	Licenses specifically author-	New License	3/	CATE			
	izing the receipt of waste byproduct material, source material, and/or special nuclear material from other persons for treatment or disposal by incineration; packaging of residues resulting from incineration; and transfer of packages containing residues to another person authorized to receive or dispose of waste material.	Renewal	3/			D RULE	
		Amendment	<u>3</u> /	CATEGO	TEGORY 4A IN THE		
WEL	LL LOGGING						
Α.	Licenses specifically	New License	12	\$58		\$700	
	authorizing use of byproduct material and/or special	Renewal	12	"		700	
	nuclear material for well logging, well surveys, and tracer studies other than field flooding tracer studies.	Amendment	3			170	
В.	Licenses specifically author-	New License	<u>3</u> /				
	izing use of byproduct materia for field flooding tracer	Renewal	<u>3</u> /				
	studies.	Amendment	3/				

Amendment

3/

³/ Fee will be determined on an actual-cost basis.

I Changed to 2 hours to Agree with similar license Ancel mets

sources contained in tele-

therapy devices.

OFFICE OF NUCLEAR MATERIAL SAFETY AND SAFEGUARDS (con't.)

FE	EE CATEGORIES	TYPE OF LICENSE	PROFESSIONAL PROCESS TIME (S/H)	COST PER PROFESSIONAL S/H	LICENSE FEE
8.	CIVIL DEFENSE:				
	A. Licenses for possess		5	\$58	\$290
	and use of Byproduct material, source mat	er- Renewal	4		230
	material for civil defense activities.	Amendment	1		60
9.	DEVICE, PRODUCT OR SEALE SOURCE SAFETY EVALUATION	ED 1			
	A. Safety evaluation of	New License	28	\$58	\$1,600
	devices or products containing byproduct material, source material, or special nuclear material, except reactor fuel devices, for commercial distribution.		10	•	580
	B. Safety evalution of	New License	14	\$58	\$800
	devices or products containing byproduct material, source material, or special nuclear material manufactured in accordance with the unique specications of, and for use by a single applicant, except reactor fuel devices	n- e d	5	•	290
	C. Safety evaluation or sealed sources con-	f New License	6	\$58	\$350
	taining byproduct material, source material, or specia nuclear material, except reactor fuel for commercial distribution.		2		120

OFFICE OF NUCHEAR MATERIAL SAFETY AND SAFEGUAPES (:on't.)

FEE CATEGORIES	TYPE OF LICENSE	PROFESSIONAL PROCESS TIME (S/H)	×	COST PER PROFESSIONAL S/H	٠	LICENSE FEE
D. Safety evaluation of sealed sources containing byproduct material, source	New License Amendment	3 1		\$58		\$175 60
material, or special nuclear material, manufactured in accordance with the unique specifications of, and for use by a single applicant,						