

OMB REVIEW DRAFT
SUPPORTING SPREADSHEETS
FOR
INFORMATION COLLECTION
COSTS FOR SECTION 316(b) PHASE III
FOR NEW OFFSHORE OIL AND GAS
EXTRACTION FACILITIES

27-Oct-04

(APPENDIX B)

**Exhibit B.1
Facility Cost and Burden Estimates for NPDES Permit Application Activities**

**Exhibit B.1a
Start-up Activities**

Activity	Facilities (Respondents)				Facility Manager	Junior Technical	CAD Operator	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Burden Per Facility	Labor Cost per Facility	Capital Cost per Facility	O&M Cost per Facility	Total Cost Per Facility	Total Burden (hrs.)	Total Initial Cost
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate														
	A				\$73	\$34	\$30	\$91	\$53	\$61	\$38	\$19							
	Level of Effort (hrs)																		
Read and Understand Rule	31	0	0	31	12	12	0	0	0	0	0	1	25	\$1,305	\$0	\$0		775	\$40,452
Mobilization/Planning	31	0	0	31	4	8	0	0	0	0	0	1	13	\$583	\$0	\$0		403	\$18,082
Training	31	0	0	31	2	2	0	0	0	0	0	1	5	\$233	\$0	\$0		155	\$7,220
Other Direct Costs	31	0	0	31	0	0	0	0	0	0	0	0	0	\$0	\$50	\$50		-	\$1,550
Totals	31	0	0	31	18	22	0	0	0	0	0	3	43	\$2,121	\$0	\$50	\$2,171	1,333	\$67,304

**Exhibit B.1b
Permit Application Activities**

Activity	Facilities (Respondents)				Facility Manager	Junior Technical	CAD Operator	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Burden Per Facility	Labor Cost per Facility	Capital Cost per Facility	O&M Cost per Facility	Total Cost Per Facility	Total Burden (hrs.)	Total Initial Cost
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate														
	A				\$73	\$34	\$30	\$91	\$53	\$61	\$38	\$19							
	Level of Effort (hrs)																		
Statement of Compliance Option Selected	7	6	6	19	1	0	0	0	0	0	0	1	2	\$92	\$0	\$0		38	\$1,742
Source Water Physical Data	7	6	6	19	1	3	8	0	0	0	0	0	12	\$418	\$0	\$0		228	\$7,934
Submit Materials for Review by Permitting Authority	7	6	6	19	0	0	0	0	0	0	0	6	6	\$111	\$0	\$0		114	\$2,109
Recordkeeping	7	6	6	19	1	1	1	0	0	0	0	2	5	\$175	\$0	\$0		95	\$3,316
Other Direct Costs	7	6	6	19	0	0	0	0	0	0	0	0	0	\$0	\$0	\$130		-	\$2,470
Totals	7	6	6	19									25	\$795	\$0	\$130	\$925	475	\$17,571

Water balance diagram is assumed to be taken from the facility design report. The hours reported here are for incorporation of the diagram(s) in the permit.

**Exhibit B.1c
Source Water Body Flow Information**

Activity	Facilities (Respondents)				Facility Manager	Junior Technical	CAD Operator	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Burden Per Facility	Labor Cost per Facility	Capital Cost per Facility	O&M Cost per Facility	Total Cost Per Facility	Total Burden (hrs.)	Total Initial Cost
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate														
	A				\$73	\$34	\$30	\$91	\$53	\$61	\$38	\$19							
	Level of Effort (hrs)																		
Gather Information Characterizing Flow	7	6	6	19	0	8	0	0	0	0	0	0	8	\$272	\$0	\$0		152	\$5,188
Perform Engineering Calculations	7	6	6	19	4	12	4	0	0	0	0	0	20	\$822	\$0	\$0		380	\$15,618
Submit Data and Analysis for Review	7	6	6	19	0	0	0	0	0	0	0	4	4	\$74	\$0	\$0		76	\$1,406
Recordkeeping	7	6	6	19	0	4	0	0	0	0	0	2	6	\$173	\$0	\$0		114	\$3,287
Other Direct Costs	7	6	6	19	0	0	0	0	0	0	0	0	0	\$0	\$75	\$75		-	\$1,425
Totals	7	6	6	19									38	\$1,341	\$0	\$75	\$1,416	722	\$26,904

**Exhibit B.1d
Design and Construction Technology Plan**

Activity	Facilities (Respondents)				Facility Manager	Junior Technical	CAD Operator	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Burden Per Facility	Labor Cost per Facility	Capital Cost per Facility	O&M Cost per Facility	Total Cost Per Facility	Total Burden (hrs.)	Total Initial Cost
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate														
	A				\$73	\$34	\$30	\$91	\$53	\$61	\$38	\$19							
	Level of Effort (hrs)																		
Delineate Hydraulic Zone of Influence	7	6	6	19	1	1	2	0	0	0	0	0	4	\$168	\$0	\$0		76	\$3,188
Perform Engineering Calculations (Impingement)	6	6	6	18	1	2	0	0	0	0	0	0	3	\$141	\$0	\$0		54	\$2,542
Perform Engineering Calculations (Entrainment)	2	1	1	4	1	2	0	0	0	0	0	0	3	\$141	\$0	\$0		12	\$565
Document that Technologies Are Optimal	7	6	6	19	0	8	0	0	0	0	0	6	14	\$383	\$0	\$0		266	\$7,277
Submit Data and Analysis for Review	7	6	6	19	0	0	0	0	0	0	0	6	6	\$111	\$0	\$0		114	\$2,109
Recordkeeping	7	6	6	19	1	1	0	0	0	0	0	6	8	\$218	\$0	\$0		152	\$4,146
Other Direct Costs	7	6	6	19	0	0	0	0	0	0	0	0	0	\$0	\$120	\$120		-	\$2,280
Totals	7	6	6	19									36	\$1,051	\$120	\$120	\$1,171	674	\$22,106

Exhibit B.1e
Source Water Baseline Biological Characterization Study

Activity	Facilities (Respondents)				Facility Manager	Junior Technical	CAD Operator	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Avg. Burden Per Facility over 3 yrs	Avg. Labor Cost per Facility for 3 yrs	Capital Cost per Facility	O&M Cost per Facility	Total Cost Per Facility	Total Burden (hrs.)	Total Initial Cost
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate														
	A				\$73	\$34	\$30	\$91	\$53	\$61	\$38	\$19							
Develop Regional Study Design and Submit to Director	2	0	0	2	0	0	0	24	48	4	0	2	78	\$5,007	\$0	\$0		156	\$10,015
Develop and Submit Source Water Sampling Plans for Facilities in Regional Study	9	0	0	9	0	0	0	8	16	4	0	2	30	\$1,857	\$0	\$0		270	\$16,713
Revise Regional Study Plans Based on Director Review	9	0	0	9	0	0	0	8	24	0	0	0	32	\$1,999	\$0	\$0		288	\$17,993
Implement Baseline Deep Water Sampling	9	9	9	9	8	8	0	160	288	100	288	12	864	\$47,923	\$0	\$0		7,776	\$431,305
Install Remote Monitoring Device for Impingement Monitoring	9	0	0	9	0	0	0	0	0	0	0	0	0	\$0	\$20,000	\$0		-	\$180,000
Operation & Maintenance of Remote Monitoring Device	9	9	9	9	0	0	0	0	0	0	0	0	0	\$0	\$0	\$2,000		-	\$18,000
Impingement Deep Water Monitoring	9	9	9	9	4	4	0	80	144	50	144	6	432	\$23,961	\$0	\$0		3,888	\$215,653
Entrainment Deep Water Monitoring	3	3	3	3	4	4	0	80	144	50	144	6	432	\$23,961	\$0	\$0		1,296	\$71,884
Implement Baseline Sampling Alaska	1	1	1	1	8	8	0	160	432	100	432	12	1152	\$61,012	\$0	\$0		1,152	\$61,012
Impingement Monitoring Alaska	0	0	0	0	4	4	0	80	216	50	216	6	576	\$30,506	\$0	\$0		-	\$0
Entrainment Monitoring Alaska	1	1	1	1	4	4	0	80	216	50	216	6	576	\$30,506	\$0	\$0		576	\$30,506
Helicopter Transportation to and from Facility	9	9	9	9	0	0	0	0	0	0	0	0	0	\$0	\$0	\$36,000		-	\$324,000
Helicopter Transportation to and from Facility in Alaska	1	1	1	1	0	0	0	0	0	0	0	0	0	\$0	\$0	\$54,000		-	\$54,000
Baseline Sample Laboratory Analysis	10	10	10	10	0	0	0	0	0	0	0	0	0	\$0	\$0	\$93,600		-	\$936,000
Entrainment Sample Laboratory Analysis	4	4	4	4	0	0	0	0	0	0	0	0	0	\$0	\$0	\$9,360		-	\$37,440
Profile of Source Water Biota	10	0	0	10	0	0	0	32	60	0	20	8	120	\$6,995	\$0	\$0		1,200	\$69,948
Identification of Critical Species	10	0	0	10	0	0	0	20	40	0	0	3	63	\$3,994	\$0	\$0		630	\$39,935
Description of Additional Stresses	10	0	0	10	0	0	0	16	30	0	10	4	60	\$3,497	\$0	\$0		600	\$34,974
Gather Tidal Excursion Information	10	0	0	10	0	32	0	0	0	0	0	4	36	\$1,162	\$0	\$0		360	\$11,620
Write Regional Study based on Results and Submit to Director	0	0	2	2	0	0	0	80	160	8	0	8	256	\$16,390	\$0	\$0		512	\$32,779
Revise Regional Study Based on Director Review	0	0	2	2	0	0	0	8	24	0	0	0	32	\$1,999	\$0	\$0		64	\$3,998
Use Regional Study Results for Individual Facility Studies	0	0	19	19	40	80	0	2	4	0	0	0	126	\$6,042	\$0	\$0		2,394	\$114,794
Recordkeeping	0	0	10	10	2	5	0	17	37	8	15	3	87	\$4,936	\$0	\$0		870	\$49,363
Finalize Individual Study based on Director review	0	0	19	19	8	24	0	0	0	0	0	8	40	\$1,550	\$0	\$0		760	\$29,442
Other Direct Costs Deepwater	0	0	9	9	0	0	0	0	0	0	0	0	0	\$0	\$0	\$13,270		-	\$119,430
Other Direct Costs Alaska	0	0	1	1	0	0	0	0	0	0	0	0	0	\$0	\$0	\$19,910		-	\$19,910
Gulf of Mexico Totals	10	10	18	18									751	\$40,445	\$6,000	\$44,397	\$90,842		
Alaska Totals	1	1	1	1									2,422	\$132,041	\$0	\$176,870	\$308,911	22,792	\$2,930,715

Exhibit B.1f

115.3333333 6287.666667 8422.381

Pilot Study for New Impingement & Entrainment Technology

Activity	Facilities (Respondents)				Facility Manager	Junior Technical	CAD Operator	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Burden Per Facility	Labor Cost per Facility	Capital Cost per Facility	O&M Cost per Facility	Total Cost Per Facility	Total Burden (hrs.)	Total Initial Cost
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate														
	A				\$73	\$34	\$30	\$91	\$53	\$61	\$38	\$19							
					Level of Effort (hrs)														
Calculate Reduction in Impingement Mortality and Entrainment	0	0	0	0	80	80	8	0	0	0	0	12	0	\$0				-	\$0
Perform Engineering Estimates of Efficacy	0	0	0	0	40	32	0	0	0	0	0	4	0	\$0				-	\$0
Purchase, Installation & Operation of Pilot Study Technology	0	0	0	0	0	0	0	0	0	0	0	0	0		\$0			-	\$0
Purchase, Installation & Operation of Pilot Study Technology	0	0	0	0	0	0	0	0	0	0	0	0	0		\$0			-	\$0
Purchase, Installation & Operation of Pilot Study Technology	0	0	0	0	0	0	0	0	0	0	0	0	0		\$0			-	\$0
Purchase, Installation & Operation of Pilot Study Technology	0	0	0	0	0	0	0	0	0	0	0	0	0		\$0			-	\$0
Perform Impingement Monitoring (Shallow Water)	0	0	0	0	16	33	0	80	312	40	312	20	0	\$0				-	\$0
Perform Entrainment Monitoring (Shallow Water)	0	0	0	0	16	33	0	80	180	40	180	20	0	\$0				-	\$0
Perform Impingement Monitoring (Deep Water)	0	0	0	0	16	33	0	80	468	40	468	20	0	\$0				-	\$0
Perform Entrainment Monitoring (Deep Water)	0	0	0	0	16	33	0	80	351	40	351	20	0	\$0				-	\$0
Perform Impingement Monitoring (Alaska Shallow Water)	0	0	0	0	16	33	0	80	468	40	468	20	0	\$0				-	\$0
Perform Entrainment Monitoring (Alaska Shallow Water)	0	0	0	0	16	33	0	80	351	40	351	20	0	\$0				-	\$0
Perform Impingement Monitoring (Alaska Deep Water)	0	0	0	0	16	33	0	80	702	40	702	20	0	\$0				-	\$0
Perform Entrainment Monitoring (Alaska Deep Water)	0	0	0	0	16	33	0	80	527	40	527	20	0	\$0				-	\$0
Pilot Study Entrainment Laboratory Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0			\$0		-	\$0
Submit Data and Analysis for Review	0	0	0	0	8	10	0	8	6	4	0	16	0	\$0				-	\$0
Recordkeeping	0	0	0	0	4	8	0	4	8	2	0	20	0	\$0				-	\$0
Other Direct Costs	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0				-	\$0
Totals	0	0	0	0												\$0	\$0	-	\$0

Total Labor Burden, Labor Cost, Capital Costs and O&M Costs for All NPDES Application Activities

	Facilities (Respondents)				Total Burden (hrs.)	Total Initial Cost
	Year 1	Year 2	Year 3	Total		
	Totals					

* The ODC estimate was not estimated for each activity, but rather as a lump sum for each provision of the rule.

**Exhibit B.2
Facility Cost and Burden Estimates for Annual Activities**

**Exhibit B.2a
Biological Monitoring for Impingement**

Activity	Facilities (Respondents)				Facility Manager	Junior Technical	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Totals Per Facility for the ICR Approval Period				Total for All Facilities in the ICR Approval Period	
					Assumed Loaded Hourly Rate							Burden (hrs)	Labor Cost	O & M Costs	Total Costs**	Burden (hrs.)	Total Cost (\$)
	Year 1	Year 2	Year 3	Total	\$73	\$34	\$91	\$53	\$61	\$38	\$19	B	C	D	C+D	A*B	A*(C+D)
	A				Level of Effort (hrs)							B	C	D	C+D	A*B	A*(C+D)
Monthly Sample Collection	0	0	0	0	0	0	0	144	0	144	0	288	\$13,090	\$0		-	\$0
Operation & Maintenance of Remote Monitoring Device	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$1,000		-	\$0
Review of Video for Taxonomic Identification	0	0	0	0	0	0	12	96	0	48	0	156	\$7,998	\$0		-	\$0
Perform Statistical Analysis	0	0	0	0	12	4	6	0	36	0	0	58	\$3,763	\$0		-	\$0
Recordkeeping	0	0	0	0	1	1	1	7	1	0	16	28	\$972	\$0		-	\$0
Other Direct Costs	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$660		-	\$0
Totals	0	0	0	-	13	5	19	247	37	192	16	530	\$25,823	\$1,660	\$27,483	-	\$0

**Exhibit B.2b
Biological Monitoring for Entrainment**

Activity	Facilities (Respondents)				Facility Manager	Junior Technical	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Totals Per Facility for the ICR Approval Period				Total for All Facilities in the ICR Approval Period	
					Assumed Loaded Hourly Rate							Burden (hrs)	Labor Cost	O & M Costs	Total Costs**	Burden (hrs.)	Total Cost (\$)
	Year 1	Year 2	Year 3	Total	\$73	\$34	\$91	\$53	\$61	\$38	\$19	B	C	D	C+D	A*B	A*(C+D)
	A				Level of Effort (hrs)							B	C	D	C+D	A*B	A*(C+D)
Helicopter Transportation to and from Facility	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$12,000		-	\$0
Monthly Sample Collection	0	0	0	0	0	0	0	144	0	144	0	288	\$13,090	\$0		-	\$0
Laboratory Identifies & Enumerates Entrained Marine Biota	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$3,120		-	\$0
Perform Statistical Analysis	0	0	0	0	12	4	6	0	36	0	0	58	\$3,763	\$0		-	\$0
Recordkeeping	0	0	0	0	1	1	1	4	1	0	16	24	\$795	\$0		-	\$0
Other Direct Costs	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$660		-	\$0
Totals	0	0	0	-	13	5	7	148	37	144	16	370	\$17,647	\$15,780	\$33,427	-	\$0

**Exhibit B.2c
Biological Monitoring for Entrainment (Alaska)**

Activity	Facilities (Respondents)				Facility Manager	Junior Technical	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Totals Per Facility for the ICR Approval Period				Total for All Facilities in the ICR Approval Period	
					Assumed Loaded Hourly Rate							Burden (hrs)	Labor Cost	O & M Costs	Total Costs**	Burden (hrs.)	Total Cost (\$)
	Year 1	Year 2	Year 3	Total	\$73	\$34	\$91	\$53	\$61	\$38	\$19	B	C	D	C+D	A*B	A*(C+D)
	A				Level of Effort (hrs)							B	C	D	C+D	A*B	A*(C+D)
Helicopter Transportation to and from Facility in Alaska	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$18,000		-	\$0
Monthly Sample Collection	0	0	0	0	0	0	0	216	0	216	0	432	\$19,634	\$0		-	\$0
Laboratory Identifies & Enumerates Entrained Marine Biota	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$3,120		-	\$0
Perform Statistical Analysis	0	0	0	0	12	4	6	0	36	0	0	58	\$3,763	\$0		-	\$0
Recordkeeping	0	0	0	0	1	1	1	6	1	0	16	26	\$901	\$0		-	\$0
Other Direct Costs	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$660		-	\$0
Totals	0	0	0	-	13	0	7	222	37	216	16	516	\$24,298	\$21,780	\$46,078	-	\$0

Exhibit B.2d

Velocity Monitoring

Activity	Facilities (Respondents)				Facility Manager	Junior Technical	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Totals Per Facility for the ICR Approval Period				Total for All Facilities in the ICR Approval Period	
					Assumed Loaded Hourly Rate							Burden (hrs)	Labor Cost	O & M Costs	Total Costs**	Burden (hrs.)	Total Cost (\$)
	Year 1	Year 2	Year 3	Total	\$73	\$34	\$91	\$53	\$61	\$38	\$19	B	C	D	C+D	A*B	A*(C+D)
	A				Level of Effort (hrs)							B	C	D	C+D	A*B	A*(C+D)
Monitor Average Through Technology	0	7	13	13	2	100	0	0	0	0	0	102	\$3,546	\$0		1,326	\$70,928
Analyze Data	0	7	13	13	4	40	0	0	0	0	0	44	\$1,653	\$0		572	\$33,056
Recordkeeping	0	7	13	13	1	8	0	0	0	0	8	17	\$493	\$0		221	\$9,864
Other Direct Costs	0	7	13	13	0	0	0	0	0	0	0	0	\$0	\$500		-	\$10,000
Totals	0	7	13	13	7	148	0	0	0	0	8	163	\$5,692	\$500	\$6,192	2,119	\$123,848

Exhibit B.2e

Yearly Status Report Activities

Activity	Facilities (Respondents)				Facility Manager	Junior Technical	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Totals Per Facility for the ICR Approval Period				Total for All Facilities in the ICR Approval Period	
					Assumed Loaded Hourly Rate							Burden (hrs)	Labor Cost	O & M Costs	Total Costs**	Burden (hrs.)	Total Cost (\$)
	Year 1	Year 2	Year 3	Total	\$73	\$34	\$91	\$53	\$61	\$38	\$19	B	C	D	C+D	A*B	A*(C+D)
	A				Level of Effort (hrs)							B	C	D	C+D	A*B	A*(C+D)
Report on Inspection and Maintenance	0	7	13	13	16	16	0	0	0	0	0	32	\$1,715	\$0		640	\$34,304
Detail Biological Monitoring Results	0	7	13	13	12	16	8	8	12	0	0	56	\$3,308	\$0		1,120	\$66,160
Detail Velocity Monitoring Results	0	7	13	13	8	16	0	0	0	0	0	24	\$1,130	\$0		480	\$22,592
Compile and Submit Report	0	7	13	13	40	40	0	0	0	0	16	96	\$4,584	\$0		1,920	\$91,680
Recordkeeping	0	7	13	13	2	2	1	1	1	0	8	15	\$568	\$0		300	\$11,350
Other Direct Costs	0	7	13	13	0	0	0	0	0	0	0	0	\$0	\$770		-	\$15,400
Totals	0	7	13	13	78	90	9	9	13	0	24	223	\$11,304	\$770	\$12,074	4,460	\$241,486

Total Cost for All NPDES Application Activities

	Facilities (Respondents)				Total Burden (hrs.)	Total Annual Cost
	Year 1	Year 2	Year 3	Total		
Totals					6,579	\$365,334

Exhibit B.3

Director Burden and Cost Estimates for Activities

Exhibit B.3a

Director Start-up Activities

Activity	Directors (Responses)	Senior Technical	Junior Technical	Clerical	Burden Per Director	Labor Cost per Director	ODCs lump sum*	Total Cost Per Director	Total Burden (hrs.)	Total Initial Cost
		Assumed Loaded Hourly Rate								
		\$50	\$32	\$24						
		Level of Effort (hrs)								
A	Level of Effort (hrs)			B	C	D	C+D	A*B	A*(C+D)	
Read and Understand Rule	3	12	12	0	24	\$977	\$0		72	\$2,930
Mobilization/Planning	3	24	16	0	40	\$1,698	\$0		120	\$5,095
Training	3	4	32	0	36	\$1,219	\$0		108	\$3,656
Other Direct Costs	3	0	0	0	-	\$0	\$50		-	\$150
Totals	3	40	60	0	100	\$3,894	\$50	\$3,944	300	\$11,832

Exhibit B.3b

Director Permit Issuance Activities

Activity	Directors (Responses)	Senior Technical	Junior Technical	Clerical	Burden Per Permit	Labor Cost per Permit	ODCs lump sum*	Total Cost Per Permit	Total Burden (hrs.)	Total Initial Cost*
		Assumed Loaded Hourly Rate								
		\$50	\$32	\$24						
		Level of Effort (hrs)								
A	Level of Effort (hrs)			B	C	D	C+D	A*B	A*(C+D)	
Review Source Water Physical Data	19	2	6	0	8	\$290	\$0		152	\$5,518
Review CWIS Data	19	6	18	0	24	\$871	\$0		456	\$16,553
Review Source Water Body Flow Information	19	2	6	0	8	\$290	\$0		152	\$5,518
Review CWIS Velocity Information	19	16	16	0	32	\$1,302	\$0		608	\$24,746
Review Design and Construction Technology Plan	19	24	8	0	32	\$1,443	\$0		608	\$27,421
Review Regional Monitoring Study Design and Sampling Plans	9	24	8	0	32	\$1,443	\$0		288	\$12,989
Review Regional Monitoring Study	2	300	50	0	350	\$16,445	\$0		700	\$32,890
Review Source Water Baseline Biological Characterization Study	19	40	25	0	65	\$2,778	\$0		1,235	\$52,773
Determine Monitoring Frequency	19	2	6	0	8	\$290	\$0		152	\$5,518
Determine Record keeping and Reporting Frequency	19	2	6	0	8	\$290	\$0		152	\$5,518
Considering Public Comments	19	16	16	0	32	\$1,302	\$0		608	\$24,746
Issuing Permit	19	1	6	1	8	\$265	\$0		152	\$5,037
Permit Record Keeping	19	1	1	2	4	\$130	\$0		76	\$2,466
Other Direct Costs	19	0	0	0	-	\$0	\$310		-	\$5,890
Totals	19	452	188	3	281	11,668	310	\$11,978	5,339	\$227,580

Exhibit B.3c
Annual Director Activities

Activity	Directors (Responses)	Senior Technical	Junior Technical	Clerical	Burden Per Permit	Labor Cost per Permit	ODCs lump sum*	Total Cost Per Permit	Total Burden (hrs.)	Total Annual Cost
		Assumed Loaded Hourly Rate								
		\$50	\$32	\$24						
A	Level of Effort (hrs)			B	C	D	C+D	A*B	A*(C+D)	
Review of Yearly Status Report	20	6	12	0	18	\$680	\$0		360	\$13,596
Compliance Tracking	20	4	12	0	16	\$581	\$0		320	\$11,616
Determination on Monitoring Frequency Reduction	8	4	8	0	12	\$453	\$0		96	\$3,626
Record Keeping	20	1	2	1	4	\$138	\$0		80	\$2,750
Other Direct Costs	20	0	0	0	-	\$0	\$30		-	\$600
Totals	20	15	34	1	50	\$1,851	\$30	\$1,881	856	\$32,188

Total Burden and Cost for All Director Activities

				Total Burden (hrs.)	Total Initial Cost
Totals				6,495	\$271,599

Exhibit B.4
Federal Burden and Cost Estimates for Activities

Exhibit B.4a
Federal Permit Program Oversight Activities

Activity	Federal (Responses)	Senior Technical	Junior Technical	Clerical	Burden per permit Review	Labor Cost per Permit Review	ODCs lump sum*	Total Cost per Permit Review	Total Burden (hrs.)	Total Initial Cost *
		Assumed Loaded Hourly Rate								
		\$50	\$32	\$24						
A	Level of Effort (hrs)			B	C	D	C+D	A*B	A*(C+D)	
Review Source Water Physical Data	-	0	0	0	-	\$0			-	\$0
Review CWIS Data	-	0	0	0	-	\$0			-	\$0
Review Source Water Body Flow Information	-	0	0	0	-	\$0			-	\$0
Review CWIS Velocity Information	-	0	0	0	-	\$0			-	\$0
Review Design and Construction Technology Plan	-	0	0	0	-	\$0			-	\$0
Review Regional Monitoring Study Design and Sampling Plans	-	0	0	0	-	\$0			-	\$0
Review Regional Monitoring Study	-	0	0	0	-	\$0			-	\$0
Review Source Water Baseline Biological Characterization Study	-	0	0	0	-	\$0			-	\$0
Review Pilot Study for New Impingement & Entrainment Technology	-	0	0	0	-	\$0			-	\$0
Review the Monitoring Frequency	-	0	0	0	-	\$0			-	\$0
Permit Record Keeping	-	0	0	0	-	\$0			-	\$0
Totals	-	0	0	0	0	\$0	\$0	\$0	-	\$0

Exhibit B.5

Respondents for the ICR Approval Period Year by Year by Activity

Facilities

	Year 1	Year 2	Year 3	Annual Average ¹
	2010	2011	2012	
Start-up Activities	31	0	0	10
Permit Application Activities	7	6	6	6
Source Water Body Flow Information	7	6	6	6
CWIS Velocity Information	7	6	6	6
Design and Construction Technology Plan (Impingement Only)	5	5	5	5
Design and Construction Technology Plan (Entrainment Only)	1	0	0	0
Design and Construction Technology Plan (Impingement & Entrainment)	1	1	1	1
Develop Regional Study Design and Submit to Director	2	0	0	1
Deep Water Baseline Monitoring for Source Water Baseline Biological Characterization Study	9	9	9	9
Deep Water Impingement Monitoring for Source Water Baseline Biological Characterization Study	9	9	9	9
Deep Water Entrainment Monitoring for Source Water Baseline Biological Characterization Study	3	3	3	3
Alaska Baseline Monitoring for Source Water Baseline Biological Characterization Study	1	1	1	1
Alaska Entrainment Monitoring for Source Water Baseline Biological Characterization Study	1	1	1	1
Initial Sourcewater Baseline Biological Characterization Data	10	0	0	3
Sourcewater Baseline Biological Characterization Data Study Final Regional Report	0	0	2	1
Use Regional Study Results for Individual Facility Studies	0	0	19	6
Biological Monitoring for Impingement	0	0	0	0
Biological Monitoring for Entrainment	0	0	0	0
Biological Monitoring for Entrainment (Alaska)	0	0	0	0
Velocity Monitoring	0	7	13	7
Yearly Status Report Activities	0	7	13	7
Respondents	31	16	19	22

Directors

	Year 1	Year 2	Year 3	Annual Average ²
	2010	2011	2012	
Director Start-up Activities	3	0	0	1
Director Permit Issuance Activities				
Review Permit Application Information	3	2	2	2
Review Source Water Body Flow Information	3	2	2	2
Review CWIS Velocity Information	3	2	2	2
Review Design and Construction Technology Plan	3	2	2	2
Review Regional Monitoring Study Design and Sampling Plans	2	2	2	2
Review Regional Monitoring Study	2	2	2	2
Review Source Water Baseline Biological Characterization Study	3	2	2	2
Determine Monitoring Frequency	3	2	2	2
Determine Permit Requirements and Issue Permit	3	2	2	2
Annual Director Activities				
Review of Yearly Status Report	0	3	3	2
Compliance Tracking	0	3	3	2
Determination on Monitoring Frequency Reduction	0	0	3	1
Record Keeping	0	3	3	2
Respondents	3	3	3	3

Sum for Facilities and Directors

	Year 1	Year 2	Year 3	Annual Average
	2010	2011	2012	
Facilities	31	16	19	22
Directors	3	3	3	3
Yearly Total	34	19	22	25

[1] Each facility is one respondent. One respondent may be involved in more than one activity; however, in order to avoid double-counting, the maximum number of respondents expected to be involved in the rule activities annually is assumed to be the number of respondents for that year.

[2] Each Director is one respondent.

Exhibit B.6

Responses for the ICR Approval Period Year by Year by Activity

Facilities

	Year 1	Year 2	Year 3	Annual Average
	2010	2011	2012	
Start-up Activities	31	0	0	10
Permit Application Activities	7	6	6	6
Source Water Body Flow Information	7	6	6	6
CWIS Velocity Information	7	6	6	6
Design and Construction Technology Plan (Impingement Only)	5	5	5	5
Design and Construction Technology Plan (Entrainment Only)	1	0	0	0
Design and Construction Technology Plan (Impingement & Entrainment)	1	1	1	1
Develop Regional Study Design and Submit to Director	2	0	0	1
Deep Water Baseline Monitoring for Source Water Baseline Biological Characterization Study	9	9	9	9
Deep Water Impingement Monitoring for Source Water Baseline Biological Characterization Study	9	9	9	9
Deep Water Entrainment Monitoring for Source Water Baseline Biological Characterization Study	3	3	3	3
Alaska Basline Monitoring for Source Water Baseline Biological Characterization Study	1	1	1	1
Alaska Entrainment Monitoring for Source Water Baseline Biological Characterization Study	1	1	1	1
Initial Sourcewater Baseline Biological Characterization Data	10	0	0	3
Sourcewater Baseline Biological Characterization Data Study Final Regional Report	0	0	2	1
Use Regional Study Results for Individual Facility Studies	0	0	19	6
Biological Monitoring for Impingement	0	0	0	0
Biological Monitoring for Entrainment	0	0	0	0
Biological Monitoring for Entrainment (Alaska)	0	0	0	0
Velocity Monitoring	0	7	13	7
Yearly Status Report Activities	0	7	13	7
Responses	94	61	94	83

Directors

	Year 1	Year 2	Year 3	Annual Average
	2010	2011	2012	
Director Start-up Activities	3	0	0	1
Director Permit Issuance Activities				
Review Permit Application Information	7	6	6	6
Review Source Water Body Flow Information	7	6	6	6
Review CWIS Velocity Information	7	6	6	6
Review Design and Construction Technology Plan	7	6	6	6
Review Regional Monitoring Study Design and Sampling Plans	9	0	0	3
Review Regional Monitoring Study	0	0	2	1
Review Source Water Baseline Biological Characterization Study	0	0	19	6
Review Pilot Study for New Impingement & Entrainment Technology	0	0	0	0
Determine Monitoring Frequency	7	6	6	6
Determine Permit Requirements and Issue Permit	7	6	6	6
Annual Director Activities				
Review of Yearly Status Report	0	7	13	7
Compliance Tracking	0	7	13	7
Determination on Monitoring Frequency Reduction	0	0	7	2
Record Keeping	0	7	13	7
Responses	54	57	103	71

Sum for Facilities and Directors

	Year 1	Year 2	Year 3	Annual Average
	2010	2011	2012	
Facilities	94	61	94	83
Directors	54	57	103	71
Yearly Total	148	118	197	154

Exhibit B.7
Hourly Burden for the ICR Approval Period Year by Year
for Facilities

Facility Activities

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		2010	2011	2012	
NPDES Permit Application Activities					
Start-up Activities	B1a	1,333	0	0	444
Permit Application Activities	B1b	175	150	150	158
Source Water Body Flow Information	B1c	266	228	228	241
CWIS Velocity Information	B1d	0	0	0	0
Design and Construction Technology Plan (Impingement Only)	B1e	175	175	175	175
Design and Construction Technology Plan (Entrainment Only)	B1e	35	0	0	12
Design and Construction Technology Plan (Impingement & Entrainment)	B1e	38	38	38	38
Develop Regional Study Design and Submit to Director	B1f	156	0	0	52
Deep Water Baseline Monitoring for Source Water Baseline Biological Characterization Study	B1f	2,778	2,778	2,778	2,778
Deep Water Impingement Monitoring for Source Water Baseline Biological Characterization Study	B1f	1,296	1,296	1,296	1,296
Deep Water Entrainment Monitoring for Source Water Baseline Biological Characterization Study	B1f	432	432	432	432
Alaska Basline Monitoring for Source Water Baseline Biological Characterization Study	B1f	384	384	384	384
Alaska Entrainment Monitoring for Source Water Baseline Biological Characterization Study	B1f	192	192	192	192
Initial Sourcewater Baseline Biological Characterization Data	B1f	3,660	0	0	1,220
Sourcewater Baseline Biological Characterization Data Study Final Regional Report	B1f	0	0	576	192
Use Regional Study Results for Individual Facility Studies	B1f	0	0	3,154	1,051
NPDES Permit Application Activity Total		10,920	5,673	9,403	8,665
Annual Activities					
Biological Monitoring for Impingement	B2a	0	0	0	0
Biological Monitoring for Entrainment	B2b	0	0	0	0
Biological Monitoring for Entrainment (Alaska)	B2c	0	0	0	0
Velocity Monitoring	B2d	0	1,141	2,119	1,087
Yearly Status Report Activities	B2e	0	1,561	2,899	1,487
Annual Activity Yearly Labor Total		0	2,702	5,018	2,573
Yearly Labor Total		10,920	8,375	14,421	11,238

Exhibit B.8

Hourly Burden for the ICR Approval Period Year by Year for Directors and Federal Government

Director Activities

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		2010	2011	2012	
Director Start-up Activities	B3a	300	0	0	100
Director Permit Issuance Activities	B3b	1,436	984	2,919	1,780
Annual Director Activities	B3e	0	266	578	281
Yearly Total		1,736	1,250	3,497	2,161

Federal Activities

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		2010	2011	2012	
Federal Permit Program Oversight Activities	B4a	0	0	0	0
Yearly Total		0	0	0	0

Exhibit B.9
Costs for the ICR Approval Period Year by Year
for Facilities

Facility Activities

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		2010	2011	2012	
NPDES Permit Application Activities					
Start-up Activities	B1a	\$65,754	\$0	\$0	\$21,918
Permit Application Activities	B1b	\$5,564	\$4,769	\$4,769	\$5,034
Source Water Body Flow Information	B1c	\$9,387	\$8,046	\$8,046	\$8,493
CWIS Velocity Information	B1d	\$0	\$0	\$0	\$0
Design and Construction Technology Plan (Impingement Only)	B1e	\$5,106	\$5,106	\$5,106	\$5,106
Design and Construction Technology Plan (Entrainment Only)	B1e	\$1,021	\$0	\$0	\$340
Design and Construction Technology Plan (Impingement & Entrainment)	B1e	\$1,162	\$1,162	\$1,162	\$1,162
Develop Regional Study Design and Submit to Director	B1f	\$10,015	\$0	\$0	\$3,338
Deep Water Baseline Monitoring for Source Water Baseline Biological Characterization Study	B1f	\$155,337	\$155,337	\$155,337	\$155,337
Deep Water Impingement Monitoring for Source Water Baseline Biological Characterization Study	B1f	\$71,884	\$71,884	\$71,884	\$71,884
Deep Water Entrainment Monitoring for Source Water Baseline Biological Characterization Study	B1f	\$23,961	\$23,961	\$23,961	\$23,961
Alaska Basline Monitoring for Source Water Baseline Biological Characterization Study	B1f	\$20,337	\$20,337	\$20,337	\$20,337
Alaska Entrainment Monitoring for Source Water Baseline Biological Characterization Study	B1f	\$10,169	\$10,169	\$10,169	\$10,169
Initial Sourcewater Baseline Biological Characterization Data	B1f	\$205,840	\$0	\$0	\$68,613
Sourcewater Baseline Biological Characterization Data Study Final Regional Report	B1f	\$0	\$0	\$36,778	\$12,259
Sourcewater Baseline Biological Characterization Data Study Final Regional Report	B1f	\$0	\$0	\$144,237	\$48,079
NPDES Permit Application Activity Total		\$585,538	\$300,772	\$481,786	\$456,032
Annual Activities					
Biological Monitoring for Impingement	B2a	\$0	\$0	\$0	\$0
Biological Monitoring for Impingement (Alaska)	B2b	\$0	\$0	\$0	\$0
Biological Monitoring for Entrainment	B2b	\$0	\$0	\$0	\$0
Biological Monitoring for Entrainment (Alaska)	B2c	\$0	\$0	\$0	\$0
Velocity Monitoring		\$0	\$39,847	\$74,001	\$37,949
Yearly Status Report Activities	B2e	\$0	\$79,130	\$146,956	\$75,362
Annual Activity Yearly Labor Total		\$0	\$118,977	\$220,957	\$113,311
Yearly Labor Total		\$585,538	\$419,749	\$702,743	\$569,343

Facility O&M

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		2010	2011	2012	
NPDES Application					
Install Remote Monitoring Device for Impingement Monitoring	B.1f	\$180,000	\$0	\$0	\$60,000
Operation & Maintenance of Remote Monitoring Device	B.1f	\$6,000	\$6,000	\$6,000	\$6,000
Helicopter Transportation to and from Facility	B.1f	\$108,000	\$108,000	\$108,000	\$108,000
Helicopter Transportation to and from Facility in Alaska	B.1f	\$18,000	\$18,000	\$18,000	\$18,000
Baseline Sample Laboratory Analysis		\$312,000	\$312,000	\$312,000	\$312,000
Entrainment Sample Laboratory Analysis	B.1f	\$12,480	\$12,480	\$12,480	\$12,480
Other Direct Costs	B.1a-g	\$3,825	\$1,950	\$141,290	\$49,022
Annual					
Operation & Maintenance of Remote Monitoring Device	B.2a	\$0	\$0	\$0	\$0
Helicopter Transportation to and from Facility	B.2c	\$0	\$0	\$0	\$0
Helicopter Transportation to and from Facility in Alaska	B.2d	\$0	\$0	\$0	\$0
Laboratory Identifies & Enumerates Entrained Marine Biota	B.2c&d	\$0	\$0	\$0	\$0
Other Direct Costs	B.2a-g	\$0	\$8,890	\$16,510	\$8,467
Equipment Cost Subtotal		\$312,000	\$132,000	\$132,000	\$192,000
Laboratory Analysis Subtotal		\$324,480	\$324,480	\$324,480	\$324,480
Other Direct Costs Subtotal		\$3,825	\$10,840	\$157,800	\$57,488
Yearly O&M Total		\$640,305	\$467,320	\$614,280	\$573,968

Exhibit B.10
Costs for the ICR Approval Period Year by Year
for Directors and Federal Government

Director Activities

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		2010	2011	2012	
Director Start-up Activities	B3a	\$11,682	\$0	\$0	\$3,894
Director Permit Issuance Activities	B3b	\$58,319	\$38,854	\$124,517	\$73,897
Annual Director Activities	B3e	\$0	\$9,787	\$21,348	\$10,378
Yearly Total		\$70,001	\$48,641	\$145,864	\$88,169

Director O&M

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		2010	2011	2012	
Start-Up & NPDES Application					
Other Direct Costs	B3a-b	\$2,320	\$1,860	\$1,860	\$2,013
Annual					
Other Direct Costs	B3c-d	\$0	\$210	\$390	\$200
Yearly O&M Cost Total		\$2,320	\$2,070	\$2,250	\$2,213

Federal Labor Activities

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		2010	2011	2012	
Federal Permit Program Oversight Activities	B4a	0	0	0	\$0
Yearly Total		\$0	\$0	\$0	\$0

Federal O&M

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		2010	2011	2012	
Federal Permit Program Oversight ODCs	B4a	\$0	\$0	\$0	\$0
Yearly Total		\$0	\$0	\$0	\$0

Exhibit B.11

Summary of the Burden, Respondents, Responses, and Costs for the ICR Approval Period by Year and Annual Averages

Facilities

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average	Three Year Total ¹
		2010	2011	2012		
Burden (hours)	B7	10,920	8,375	14,421	11,238	33,715
Respondents (number)	B5	31	16	19	22	31
Responses (number)	B6	94	61	94	83	249
Costs (labor)	B9	\$585,538	\$419,749	\$702,743	\$569,343	\$1,708,030
Costs (Equipment)	B9	\$312,000	\$132,000	\$132,000	\$192,000	\$576,000
Costs (Lab Analysis)	B9	\$324,480	\$324,480	\$324,480	\$324,480	\$973,440
Costs (Other Direct Costs)	B9	\$3,825	\$10,840	\$157,800	\$57,488	\$172,465
Total Costs		\$1,225,843	\$887,069	\$1,317,023	\$1,143,312	\$3,429,935

[1] Each facility is one respondent. One respondent may perform activities in more than one year. So to avoid double-counting, the respondent 3 year total, is the total number of facilities that must perform one or more activities during the ICR approval period.

Directors (EPA Region)

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average	Three Year Total ¹
		2010	2011	2012		
Burden (hours)	B8	1,736	1,250	3,497	2,161	6,483
Respondents (number)	B5	3	3	3	3	3
Responses (number)	B6	54	57	103	71	214
Costs(labor)	B10	\$70,001	\$48,641	\$145,864	\$88,169	\$264,506
Costs (Other Direct Costs)	B10	\$2,320	\$2,070	\$2,250	\$2,213	\$6,640
Total Costs		\$72,321	\$50,711	\$148,114	\$90,382	\$271,146

[1] Each director is one respondent. One respondent may perform activities in more than one year. So to avoid double-counting, the respondent 3 year total, is the total number of directors that must perform one or more activities during the ICR approval period.

Federal Government

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average	Three Year Total
		2010	2011	2012		
Burden (hours)	B8	-	-	-	-	-
Costs(labor)	B10	\$0	\$0	\$0	\$0	\$0
Costs (O&M)	B10	\$0	\$0	\$0	\$0	\$0
Total Costs		\$0	\$0	\$0	\$0	\$0

Totals for Respondents (Facilities and Directors)*

	Annual Average	Three Year Total
Total Respondent Burden (hours)	13,399	40,198
Total Respondents (number)	25	34
Total Respondent Labor Costs	\$657,512	\$1,972,536
Total Respondent Capital and O&M Costs	\$576,182	\$1,728,545
Total Respondent Cost for All Activities	\$1,233,694	\$3,701,081

* Totals for annual averages may not match exactly due to rounding discrepancies

**Exhibit B.12
Facility Cost and Burden Estimates for NPDES Permit Renewal Application Activities**

**Exhibit B.12a
Start-up Activities**

Activity	Facility	Junior	CAD	Contracted	Biologist	Statistician	Biological	Clerical	Burden Per Facility	Labor Cost per Facility	Capital Cost per Facility	O&M Cost per Facility	Total Cost Per Facility
	Assumed Loaded Hourly Rate												
	\$73	\$34	\$30	\$91	\$53	\$61	\$38	\$19					
Level of Effort (hrs)									B	C	D	E	C+D+E
Read and Understand Rule	4	4	0	0	0	0	0	0	8	\$429	\$0	\$0	
Mobilization/Planning	1	2	0	0	0	0	0	0	3	\$141	\$0	\$0	
Training	1	1	0	0	0	0	0	0	2	\$107	\$0	\$0	
Other Direct Costs	0	0	0	0	0	0	0	0	0	\$0		\$15	
Totals	6	7	0	0	0	0	0	0	13	\$677	\$0	\$15	\$692

**Exhibit B.12b
Permit Application Activities**

Activity	Facility	Junior	CAD	Contracted	Biologist	Statistician	Biological	Clerical	Burden Per Facility	Labor Cost per Facility	Capital Cost per Facility	O&M Cost per Facility	Total Cost Per Facility
	Assumed Loaded Hourly Rate												
	\$73	\$34	\$30	\$91	\$53	\$61	\$38	\$19					
Level of Effort (hrs)									B	C	D	E	C+D+E
Statement of Compliance Option Selected	0	0	0	0	0	0	0	0	0	\$0	\$0	\$0	
Source Water Physical Data	0	1	2	0	0	0	0	0	3	\$95	\$0	\$0	
Submit Materials for Review by Permitting Authority	0	0	0	0	0	0	0	2	2	\$37	\$0	\$0	
Recordkeeping	0	0	0	0	0	0	0	1	1	\$19	\$0	\$0	
Other Direct Costs	0	0	0	0	0	0	0	0	0	\$0	\$0	\$40	
Totals									6	\$150	\$0	\$40	\$190

Water balance diagram is assumed to be taken from the facility design report. The hours reported here are for incorporation of the diagram(s) in the permit.

**Exhibit B.12c
Source Water Body Flow Information**

Activity	Facility	Junior	CAD	Contracted	Biologist	Statistician	Biological	Clerical	Burden Per Facility	Labor Cost per Facility	Capital Cost per Facility	O&M Cost per Facility	Total Cost Per Facility
	Assumed Loaded Hourly Rate												
	\$73	\$34	\$30	\$91	\$53	\$61	\$38	\$19					
Level of Effort (hrs)									B	C	D	E	C+D+E
Gather Information Characterizing Flow	0	2	0	0	0	0	0	0	2	\$68	\$0	\$0	
Perform Engineering Calculations	1	4	1	0	0	0	0	0	6	\$240	\$0	\$0	
Submit Data and Analysis for Review	0	0	0	0	0	0	0	1	1	\$19	\$0	\$0	
Recordkeeping	0	1	0	0	0	0	0	1	2	\$53	\$0	\$0	
Other Direct Costs	0	0	0	0	0	0	0	0	0	\$0	\$0	\$23	
Totals									11	\$379	\$0	\$23	\$401

**Exhibit B.12d
Design and Construction Technology Plan**

Activity	Facility	Junior	CAD	Contracted	Biologist	Statistician	Biological	Clerical	Burden Per Facility	Labor Cost per Facility	Capital Cost per Facility	O&M Cost per Facility	Total Cost Per Facility
	Assumed Loaded Hourly Rate												
	\$73	\$34	\$30	\$91	\$53	\$61	\$38	\$19					
	Level of Effort (hrs)												
	B	C	D	E	C+D+E								
Delineate Hydraulic Zone of Influence	1	1	1	0	0	0	0	0	3	\$138		\$0	
Perform Engineering Calculations (Impingement)	1	1	0	0	0	0	0	0	2	\$107		\$0	
Perform Engineering Calculations (Entrainment)	1	1	0	0	0	0	0	0	2	\$107		\$0	
Document that Technologies Are Optimal	0	4	0	0	0	0	0	3	7	\$192		\$0	
Submit Data and Analysis for Review	0	0	0	0	0	0	0	3	3	\$56		\$0	
Recordkeeping	1	1	0	0	0	0	0	3	5	\$163		\$0	
Other Direct Costs	0	0	0	0	0	0	0	0	0	\$0		\$40	
Totals									22	\$762		\$40	\$802

**Exhibit B.12e
Source Water Baseline Biological Characterization Study**

Activity	Facility	Junior	CAD	Contracted	Biologist	Statistician	Biological	Clerical	Avg. Burden Per Facility	Avg. Labor Cost per Facility for	Capital Cost per Facility	O&M Cost per Facility	Total Cost Per Facility
	Assumed Loaded Hourly Rate												
	\$73	\$34	\$30	\$91	\$53	\$61	\$38	\$19					
	Level of Effort (hrs)												
	B	C	D	E	C+D+E								
Develop Regional Study Design and Submit to Director	0	0	0	14	29	2	0	1	46	\$2,951	\$0	\$0	
Develop and Submit Source Water Sampling Plans for Facilities in Regional Study	0	0	0	5	10	2	0	1	18	\$1,125	\$0	\$0	
Revise Regional Study Plans Based on Director Review	0	0	0	5	14	0	0	0	19	\$1,197	\$0	\$0	
Implement Baseline Deep Water Sampling	2	2	0	96	173	60	173	4	510	\$28,413	\$0	\$0	
Install Remote Monitoring Device for Impingement Monitoring	0	0	0	0	0	0	0	0	0	\$0	\$0	\$0	
Operation & Maintenance of Remote Monitoring Device	0	0	0	0	0	0	0	0	0	\$0	\$0	\$2,000	
Impingement Deep Water Monitoring	1	1	0	48	86	30	86	2	254	\$14,161	\$0	\$0	
Entrainment Deep Water Monitoring	1	1	0	48	86	30	86	2	254	\$14,161	\$0	\$0	
Implement Baseline Sampling Alaska	2	2	0	96	259	60	259	4	682	\$36,230	\$0	\$0	
Impingement Monitoring Alaska	1	1	0	48	130	30	130	2	342	\$18,160	\$0	\$0	
Entrainment Monitoring Alaska	1	1	0	48	130	30	130	2	342	\$18,160	\$0	\$0	
Helicopter Transportation to and from Facility	0	0	0	0	0	0	0	0	0	\$0	\$0	\$21,600	
Helicopter Transportation to and from Facility in Alaska	0	0	0	0	0	0	0	0	0	\$0	\$0	\$32,400	
Baseline Sample Laboratory Analysis	0	0	0	0	0	0	0	0	0	\$0	\$0	\$56,160	
Entrainment Sample Laboratory Analysis	0	0	0	0	0	0	0	0	0	\$0	\$0	\$5,616	
Profile of Source Water Biota	0	0	0	19	36	0	12	2	69	\$4,127	\$0	\$0	
Identification of Critical Species	0	0	0	12	24	0	0	1	37	\$2,381	\$0	\$0	
Description of Additional Stresses	0	0	0	10	18	0	6	1	35	\$2,109	\$0	\$0	
Gather Tidal Excursion Information	0	10	0	0	0	0	0	1	11	\$359	\$0	\$0	
Write Regional Study based on Results and Submit to Director	0	0	0	48	96	5	0	2	151	\$9,794	\$0	\$0	
Revise Regional Study Based on Director Review	0	0	0	5	14	0	0	0	19	\$1,197	\$0	\$0	
Use Regional Study Results for Individual Facility Studies	12	24	0	1	2	0	0	0	39	\$1,891	\$0	\$0	
Recordkeeping	1	2	0	10	22	5	9	1	50	\$2,882	\$0	\$0	
Finalize Individual Study based on Director review	2	7	0	0	0	0	0	2	11	\$421	\$0	\$0	
Other Direct Costs Deepwater	0	0	0	0	0	0	0	0	0	\$0	\$0	\$7,960	
Other Direct Costs Alaska	0	0	0	0	0	0	0	0	0	\$0	\$0	\$11,950	
Gulf of Mexico Totals									1,523	87,167	-	93,336	\$180,503
Alaska Totals									1,407	\$77,660	\$0	\$106,126	\$183,786

Exhibit B.13
 Director Burden and Cost Estimates for Permit Renewal

Exhibit B.13
 Director Permit Reissuance Activities

Activity	Senior Technical	Junior Technical	Clerical	Burden Per Permit	Labor Cost per Permit	ODCs lump sum*	Total Cost Per Permit
	Assumed Loaded Hourly Rate						
	\$50	\$32	\$24				
Level of Effort (hrs)				B	C	D	C+D
Review Source Water Physical Data	1	2	0	3	\$113		
Review CWIS Data	2	5	0	7	\$259		
Review Source Water Body Flow Information	1	2	0	3	\$113		
Review CWIS Velocity Information	5	5	0	10	\$407		
Review Design and Construction Technology Plan	7	2	0	9	\$410		
Review Source Water Baseline Biological Characterization Study	12	8	0	20	\$849		
Determine Monitoring Frequency	1	2	0	3	\$113		
Determine Record keeping and Reporting Frequency	1	2	0	3	\$113		
Considering Public Comments	5	5	0	10	\$407		
Issuing Permit	0	2	0	2	\$64		
Permit Record Keeping	0	0	1	1	\$24		
Totals	35	35	1	71	2873	\$310	0