CA-IR-1

General Information Requests

For each of the HECO witnesses who sponsor test period budgeted labor direct expense amounts, please provide the following information:

a. Identify each employee involved in preparation of budgeted staffing and associated labor direct expense amounts included in the witnesses' portion of the rate case test period budget.

b. Provide complete copies of all calculations, spreadsheet files, "pencil" workpapers, surveys and other analyses performed by each of the employees identified in response to part (a), documenting all work done to determine required staffing levels and overtime hours by Department, RA, Activity and NARUC Account.

c. Describe the actual force level that existed at the date the budget was prepared or otherwise served as a base for purposes of preparing the budget level.

d. For each budgeted employee position that is added to existing actual force levels (as the date the budget was prepared), **explain** the analyses undertaken to determine that each added position was necessary and should be filled in order to meet present or anticipated work requirements. Also, please explain how the anticipated work requirements were defined and

f. See a. above

A-IR-1 c. *A Force Bud Prep	CA-IR-1 d. # Budgeted Positions Added To Actual	CA-IR-1 d./e./f. For Increases, refer to CA-IR-1 response from:
10	1	T-13 E. T. Shiraki
9	0	
*151	5	T-8 S. K. Yoshida
22	3	T-8 S. K. Yoshida
11	0	
11	0	
11	0	
11	0	
11	0	
11	0	
11	0	
11	0	
11	0	
*151	5	T-8 S. K. Yoshida
8	1	T-13 E. T. Shiraki
6	0	
10	1	T-13 E. T. Shiraki
11	0	
2	0	
11	0	
11	0	
11	0	
11	0	
10	1	T-13 E. T. Shiraki
11	0	
3	0	
8	1	T-13 E. T. Shiraki
5	0	
10	1	T-13 E. T. Shiraki
9	0	

lined department work force. No RA detail available.

(Spreadsheet: RateCaseInfoSourcesCA-Irs.xls)

...ents				CA-IR-1 a.	CA-IR-1 c.	CA-IR-1 d.	CA-IR-1 d./e./f.
...nt	RA	*EE #	FY05 Budget05	Budget Prep - Source	Actual RA Force Level @ Bud Prep	# Budgeted Positions Added To Actual	For increases, refer to CA-IR-1 response from:
...al	PNC	150	$13,126	Susan Li	10	1	T-13 E. T. Shiraki
...al	PNC	150	$5,382	Susan Li	10	1	T-13 E. T. Shiraki
...al	PNC	150	$20,911	Susan Li	10	1	T-13 E. T. Shiraki
...al	PNC	150	$4,306	Susan Li	10	1	T-13 E. T. Shiraki
...kMgt	PKI	150	$149,436	W. Kellinoi/M. Nakayama	9	0	
...kMgt	PKI	150	$222,577	W. Kellinoi/M. Nakayama	9	0	
...kMgt	PKI	150	$7,028	W. Kellinoi/M. Nakayama	9	0	
...M	PDS	108	$101,983	Arvin Fujii	*151	5	T-8 S. K. Yoshida
...M	PDS	150	$93,055	Arvin Fujii	*151	5	T-8 S. K. Yoshida
...p Svcs	PVF	108	$2,533	Mark Sterlacci	22	3	T-8 S. K. Yoshida
...F	PFS	150	$2,208	Alden Ishii	11	0	
...F	PFS	150	$2,150	Alden Ishii	11	0	
...F	PFS	150	$4,299	Alden Ishii	11	0	
...F	PFS	150	$5,651	Alden Ishii	11	0	
...F	PFS	150	$36,719	Alden Ishii	11	0	
...F	PFS	150	$4,247	Alden Ishii	11	0	
...F	PFS	150	$26,586	Alden Ishii	11	0	
...F	PFS	150	$5,642	Alden Ishii	11	0	
...F	PFS	150	$16,494	Alden Ishii	11	0	
...F	PFS	150	$337,285	Alden Ishii	11	0	
...F	PFS	150	$79,619	Alden Ishii	11	0	
...F	PFS	150	$38,282	Alden Ishii	11	0	
...F	PFS	150	$4,291	Alden Ishii	11	0	
...F	PFS	150	$4,247	Alden Ishii	11	0	
...F	PFS	150	$20,781	Alden Ishii	11	0	
...mp & Be	PFB	150	$460	Pat Oshiro/Karen Ho	8	1	T-13 E. T. Shiraki
...mp & Be	PPW	150	$141,664	Pat Oshiro/Karen Ho	3	0	
...mp & Be	PFB	150	$1,840	Pat Oshiro/Karen Ho	8	1	T-13 E. T. Shiraki
...l Rel	PPI	150	$12,347	Jeri Morimatsu	6	0	
...F	PHA	150	$15,359	Jim Beavers	2	0	
...n Acctg	PAA	150	$854	Lou Michinaka	5	0	
			$162,562				
			$104,516				
			$694,323				
			$264,269				
			$ 155,692				
			$1,218,800				

* Combined department work force. No RA detail available.

Legal Labor Costs

	Activity				
LRR	795	Emer.Response	Facilitator	24	
		Safety,Sec,Fac		96	
	950	Lit - PI		172	+ 11.50
	951	Lit - PD		83	#1
LG	950	Lit - PI	Facilitator	120	
	953	Ind Rel		48	
	953	WC		48	
JPV	950		Facilitator	60	
	951			60	#1
Legal Asst - Cal.					
	950	Lit Doc Prod	Implementor	60	
	950	Lit - PI		60	
Legal Secs - Top					
	950	Lit -PI Docketing	Implementor	96	
Legal Secs - Bottom					
	951	Lit -PI Docketing		36	
	951	Records Mgmt Lit		247	+ 59

Labor Rates:	
Facilitator	$ 44.85
Implementor	$ 23.72

Combined

795	Facilitator	120	$ 5,382.00		#17
950	Facilitator	352	$ 15,787.20		
	Implementor	216	$ 5,123.52	$ 20,910.72	#24
951	Facilitator	143	$ 6,413.55		
	Implementor	283	$ 6,712.76	$ 13,126.31	#1
953	Facilitator	96	$ 4,305.60		#30

Labor Input Sheet - NonProject/NonProgram

2005

Resp Area (RA) PNC
Labor Class Facilitator (LRR)

Prepared by CKF
Date 4/16/2003

Dimension tab card								Rates tab card	Units tab card													
Line Item	RA	Act	Loc	Ind	Proj	EE	Labor Class	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
Labor Supply:									*(enter employee count in "Units tab card")*													
Labor Supply	PNC	*Supply	*Supply	*Supply	*Supply	*Supply	Facilitator (LRR)	Available Ho	1	1	1	1	1	1	1	1	1	1	1	1	12	
Labor Demand:									*(enter hours in "Units tab card")*													
Holiday	PNC	098	PHE	ND		107	Facilitator (LRR)		0	8	8	0	8	8	8	8	8	8	16	16	96	4.6%
Vacation	PNC	098	PHE	ND		107	Facilitator (LRR)				40						40			40	120	5.8%
Other NPW	PNC	098	PHE	ND		107	Facilitator (LRR)														0	0.0%
Workers Comp	PNC	098	PHE	ND		108	Facilitator (LRR)														0	0.0%
Planning & Engineering-HEC	PNC	211	KST	NE	NPNCZZZZ	150	Facilitator (LRR)	AD000667	2	2	2	2	2	2	2	2	2	2	2	2	24	1.2%
Engineering-HECO	PNC	301	OAH	NE	NPNCZZZZ	150	Facilitator (LRR)	AD000666	68	66	57	48	46	47	29	27	28	29	27	28	500	24.0%
Project Mgmt.-HECO	PNC	307	OAH	NE	NPNCZZZZ	150	Facilitator (LRR)	AD000668	16	9	6	16	16	16	16	16	16	16	16	8	167	8.0%
Construction & Maint.-HECO	PNC	320	OAH	NE	NPNCZZZZ	150	Facilitator (LRR)	AD000664	4	4	4	4	4	4	4	4	4	4	4	4	48	2.3%
Customer Installations-HECO	PNC	600	OAH	NE	NPNCZZZZ	150	Facilitator (LRR)	AD000018	16	10	6	16	16	16	16	16	16	16	16	16	176	8.5%
Legislative-HECO	PNC	745	PHE	NE	NPNCZZZZ	150	Facilitator (LRR)	AD000051	15	10	5	15									45	2.2%
Emergency Response-HECO	PNC	786	PHE	NE	NPNCZZZZ	150	Facilitator (LRR)	AD000456	2	2	2	2	2	2	2	2	2	2	2	2	24	1.2%
Safety, Security, Fac.-HECO	PNC	[illegible]	PHE	NE	NPNCZZZZ	150	Facilitator (LRR)	AD000066	8	8	8	8	8	8	8	8	8	8	8	8	[illegible]	4.0%
System Operations-HECO	PNC	325	OAH	NE	NPNCZZZZ	150	Facilitator (LRR)	AD000674	2	2	2	2	2	2	2	2	2	2	2	2	24	1.2%
Contracts-HECO	PNC	844	PHE	NE	NPNCZZZZ	150	Facilitator (LRR)	AD000011	8	8	8	8	8	8	8	8	8	8	8	8	96	4.6%
Litigation-PI-HECO	PNC	950	PHE	NE	NPNCZZZZ	150	Facilitator (LRR)	AD000055	13	10	14	15	15	15	15	15	15	15	15	15	172	8.3%
Litigation-PD-HECO	PNC	951	PHE	NE	NPNCZZZZ	150	Facilitator (LRR)	AD000058	4	3	4	8	8	8	8	8	8	8	8	8	83	4.0%
HECO-Meetings/Reports	PNC	960	PHE	NE	NPNCZZZZ	150	Facilitator (LRR)	AD000340	5	5	5	5	5	5	5	5	5	5	5	5	60	2.9%
Legal-General-HECO	PNC	960	PHE	NE	NPNCZZZZ	150	Facilitator (LRR)	AD000047	13	13	13	19	36	35	45	63	14	45	47	14	357	17.2%
PROJECTS																						
HONOLULU CITY LINE	PNC	307	OAH	NI	P4850000	150	Facilitator (LRR)	EE000139	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
EMS REVITALIZATION	PNC	306	OAH	NI	P0000717	150	Facilitator (LRR)														0	0.0%
																					0	
																					0	
								Total NonProj/Pgm Demand	176	160	184	168	176	176	168	184	176	168	176	176	2,088	100.4%
								Total Supply	168	160	184	168	176	176	168	184	176	168	176	176	2,080	
								LEGAL-GENER.	-8	0	0	0	0	0	0	0	0	0	0	0	-8	
Holidays - 2/21, 3/25, 5/30, 6/10, 7/4, 8/19, 9/5, 10/10, 11/11, 11/24, 12/23 (1/2), 12/26, 12/30 (1/2)									0	8	8	0	8	8	8	8	8	8	16	16	96	
Available hours per employee									168	160	184	168	176	176	168	184	176	168	176	176	2080	

#17

#24
#1

NOTE: Total NonProject/NonProgram Demand hours may *NOT* equal Total Supply hours due to Project/Program Demand hours (which are budgeted in the Project model)

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ed by CKF
6/5/2003

	Oct	Nov	Dec	Total	
rd")					
1	1	1	1	12	
5	8	16	16	96	4.6%
			40	80	3.8%
				0	0.0%
				0	0.0%
				0	0.0%
				20	1.0%
0	60	60	60	800	38.5%
7	2	2	2	24	1.2%
7	2	2	2	24	1.2%
5	5	5	5	30	1.4%
5	5	5	5	60	2.9%
0	10	10	10	120	5.8%
1	4	4	4	48	2.3%
1	4	4	4	48	2.3%
5	5	5	5	60	2.9%
1	63	63	23	670	32.2%
				0	0.0%
6	168	176	176	2,080	100.0%
6	168	176	176	2,080	
0	0	0	0	0	

8 8 16 16 96
76 168 176 176 2080

geted in the Project model)

#24

#30

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#24 - #1

4.6%	3.8%	0.0%	0.0%	0.6%	1.2%	8.7%	2.3%	3.5%	0.2%	1.5%	11.5%	17.3%	3.5%	2.3%	2.9%	2.9%	2.3%	27.5%	1.2%	2.3%	0.0%	0.0%	100.0%

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Labor Input Sheet - NonProject/NonProgram

2005

Resp Area (RA) PNC
Labor Class Implementor (CA)

Prepared by CKF
Date 4/16/2003

Dimension tab card								Rates tab ca	Units tab card													
Line Item	RA	Act	Loc	Ind	Proj	EE	Labor Class	ates Link T	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
Labor Supply:									*(enter employee count in "Units tab card")*													
Labor Supply	PNC	*Supply	*Supply	*Supply	*Supply	*Supply	Implementor (CA)	Available H	1	1	1	1	1	1	1	1	1	1	1	1	12	
Labor Demand:									*(enter hours in "Units tab card")*													
Holiday	PNC	098	PHE	ND		107	Implementor (CA)		0	8	8	0	8	8	8	8	8	8	16	16	96	4.6%
Vacation	PNC	098	PHE	ND		107	Implementor (CA)				40								40		80	3.8%
Other NPW	PNC	098	PHE	ND		107	Implementor (CA)														0	0.0%
Workers Comp	PNC	098	PHE	ND		108	Implementor (CA)														0	0.0%
	PNC					150	Implementor (CA)														0	0.0%
Employment	PNC	765	PHE	NE	NPNCZZZZ	150	Implementor (CA)	AD000030	10	10	10	10	10	10	10	10	10	10	10	10	120	5.8%
Due Diligence (Financings)	PNC	961	PHE	NE	NPNCZZZZ	150	Implementor (CA)	AD000025	5	5	5	5	5	5	5	5	5	5	5	5	60	2.9%
Due Diligence-HEI	PNC	961	HEI	BE	NPNCZZZZ	150	Implementor (CA)	AD000132	5			5			5			5		5	25	1.2%
Litigation (Doc Prod)	PNC	950	PHE	NE	NPNCZZZZ	150	Implementor (CA)	AD000059	5	5	5	5	5	5	5	5	5	5	5	5	60	2.9%
Litigation (PI)	PNC	950	PHE	NE	NPNCZZZZ	150	Implementor (CA)	AD000055	5	5	5	5	5	5	5	5	5	5	5	5	60	2.9%
MECO-Litigation (PI)	PNC	950	MAU	BE	NPNCZZZZ	150	Implementor (CA)	AD000117	1	1	1	1	1	1	1	1	1	1	1	1	12	0.6%
MECO-Land	PNC	928	MAU	BE	NPNCZZZZ	150	Implementor (TYE)	AD000113	2	2	2	2	2	2	2	2	2	2	2	2	24	1.2%
HELCO-Land	PNC	928	HEL	BE	NPNCZZZZ	150	Implementor (CA)	AD000094	2	2	2	2	2	2	2	2	2	2	2	2	24	1.2%
HELCO-Litigation (PI)	PNC	950	HEL	BE	NPNCZZZZ	150	Implementor (CA)	AD000098	2	2	2	2	2	2	2	2	2	2	2	2	24	1.2%
Legal-General	PNC	960	PHE	NE	NPNCZZZZ	150	Implementor (CA)	AD000047	131	120	104	131	136	136	123	144	136	123	88	123	1,495	71.9%
CIS Replacement	PNC	618	PHE	NE	P0000571	150	Implementor (CA)		0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
							Total NonProj/Pgm Demand		168	160	184	168	176	176	168	184	176	168	176	176	2,080	100.0%
							Total Supply		168	160	184	168	176	176	168	184	176	168	176	176	2,080	
								LEGAL-GENE	0	0	0	0	0	0	0	0	0	0	0	0	0	

Holidays - 2/21, 3/25, 5/30, 6/10, 7/4, 8/19, 9/5, 10/10, 11/11, 11/24, 12/23 (1/2), 12/26, 12/30 (1/2)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Holidays	0	8	8	0	8	8	8	8	8	8	16	16	96
Available hours per employee	168	160	184	168	176	176	168	184	176	168	176	176	2080

NOTE: Total NonProject/NonProgram Demand hours may *NOT* equal Total Supply hours due to Project/Program Demand hours (which are budgeted in the Project model)

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Labor Input Sheet - NonProject/NonProgram
2005

Resp Area (RA) PNC
Labor Class Implementor (DVO)

Prepared by CKF
Date 6/5/2003

Dimension tab card								Rates tab ca	Units tab card												
Line Item	RA	Act	Loc	Ind	Proj	EE	Labor Class	ates Link T	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Labor Supply:									*(enter employee count in "Units tab card")*												
Labor Supply	PNC	*Supply	*Supply	*Supply	*Supply	*Supply	Implementor (D	Available H	1	1	1	1	1	1	1	1	1	1	1	1	12
Labor Demand:									*(enter hours in "Units tab card")*												
Holiday	PNC	098	PHE	ND		107	Implementor (DVO)		0	8	8	0	8	8	8	8	8	8	16	16	96
Vacation	PNC	098	PHE	ND		107	Implementor (DVO)								80	80					160
Other NPW	PNC	098	PHE	ND		107	Implementor (DVO)														0
Workers Comp	PNC	098	PHE	ND		108	Implementor (DVO)														0
Payroll	PNC	777	PHE	NE	NPNCZZZZ	160	Implementor (D	AD000073	20	20	20	20	20	20	20	20	20	20	20	20	240
Invoices-Processing/mails	PNC	843	PHE	NE	NPNCZZZZ	160	Implementor (D	AD000044	1	1	1	1	1	1	1	1	1	1	1	1	12
Litigation-Pl-Docketing	PNC	[illegible]	PHE	NE	NPNCZZZZ	160	Implementor (D	AD000055	5	5	5	5	5	5	5	5	5	5	5	5	60
Meetings / Reports (Admin)	PNC	960	PHE	NE	NPNCZZZZ	160	Implementor (D	AD000340	4	4	4	4	4	4	4	4	4	4	4	4	48
Legal-General	PNC	960	PHE	NE	NPNCZZZZ	160	Implementor (D	AD000047	138	122	146	138	138	138	50	66	138	130	130	130	1,464
Total NonProj/Pgm Demand									168	160	184	168	176	176	168	184	176	168	176	176	2,080
Total Supply									168	160	184	168	176	176	168	184	176	168	176	176	2,080
								LEGAL-GENE	0	0	0	0	0	0	0	0	0	0	0	0	0

Holidays - 1/1, 2/16, 4/9, 5/31, 6/11, 7/5, 8/20, 9/6, 10/11, 11/2, 11/11, 11/25, 12/23 (1/2), 12/27, 12/31 (1/2)	8	8	0	8	8	8	8	8	8	8	24	16	112	
Available hours per employee	168	160	184	168	176	176	168	184	176	168	176	176	2096	
Holiday														4.6%
Vacation														7.7%
Other NPW														0.0%
Workers Comp														0.0%
Payroll														11.5%
Invoices-Processing/mails														0.6%
Litigation-Pl-Docketing														2.9% - #24
Meetings / Reports (Admin)														2.3%
Legal-General														70.4%
Total NonProj/Pgm Demand														100.0%

NOTE: Total NonProject/NonProgram Demand hours may *NOT* equal Total Supply hours due to Project/Program Demand hours (which are budgeted in the Project model)

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Labor Input Sheet - NonProject/NonProgram

2005

Resp Area (RA) PNC
Labor Class Implementor (LI)

Prepared by CKF
Date 4/16/2003

	Dimension tab card						Rates tab ca		Units tab card													
Line Item	RA	Act	Loc	Ind	Proj	EE	Labor Class	ates Link T	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
Labor Supply:									*(enter **employee count** in **"Units tab card"**)*													
Labor Supply	PNC	*Supply	*Supply	*Supply	*Supply	*Supply	Implementor (LI)	Available H	1	1	1	1	1	1	1	1	1	1	1	1	12	
Labor Demand:									*(enter **hours** in **"Units tab card"**)*													
Holiday	PNC	098	PHE	ND		107	Implementor (LI)		0	8	8	0	8	8	8	8	8	8	16	16	96	4.6%
Vacation	PNC	098	PHE	ND		107	Implementor (LI)				40			40						40	120	5.8%
Other NPW	PNC	098	PHE	ND		107	Implementor (LI)														0	0.0%
Workers Comp	PNC	098	PHE	ND		108	Implementor (LI)														0	0.0%
Payroll	PNC	777	PHE	NE	NPNCZZZZ	150	Implementor (LI)	AD000073	5	5	5	5	5	5	5	5	5	5	5	5	60	2.9%
Litigation-PI-Docketing	PNC	960	PHE	NE	NPNCZZZZ	150	Implementor (LI)	AD000055	3	3	3	3	3	3	3	3	3	3	3	3	36	1.7%
Litigation-PD-Docketing	PNC	951	PHE	NE	NPNCZZZZ	150	Implementor (LI)	AD000058	3	3	3	3	3	3	3	3	3	3	3	3	36	1.7%
O/S Atty Invoices & Supplies	PNC	843	PHE	NE	NPNCZZZZ	150	Implementor (LI)	AD000044	48	32	32	48	40	30	44	44	44	40	48	30	480	23.1%
Meetings / Reports (Admin)	PNC	960	PHE	NE	NPNCZZZZ	150	Implementor (LI)	AD000340	4	4	4	4	4	4	4	4	4	4	4	4	48	2.3%
Budget, StrtPlng, Work Mgmt	PNC	701	PHE	NE	NPNCZZZZ	150	Implementor (LI)	AD000006	35	35	27	35	35	30	35	35	35	35	35	25	397	19.1%
Records Mgmt (Lit)	PNC	951	PHE	NE	NPNCZZZZ	150	Implementor (LI)	AD000669	21	21	21	21	21	19	21	21	21	21	21	18	247	11.9%
Recordes Mgmt (AOI)	PNC	960	PHE	NE	NPNCZZZZ	150	Implementor (LI)	AD000797	21	21	21	21	21	19	21	21	21	21	21	18	247	11.9%
Employment Labor	PNC	765	PHE	NE	NPNCZZZZ	150	Implementor (LI)	AD000030	5	5	5	5	5	5	5	5	5	5	5	5	60	2.9%
Legal-General	PNC	960	PHE	NE	NPNCZZZZ	150	Implementor (LI)	AD000047	23	23	15	23	31	10	19	35	27	23	15	9	253	12.2%
							Total NonProj/Pgm Demand		168	160	184	168	176	176	168	184	176	168	176	176	2,080	100.0%
							Total Supply		168	160	184	168	176	176	168	184	176	168	176	176	2,080	
								LEGAL-GENE	0	0	0	0	0	0	0	0	0	0	0	0	0	
Holidays - 2/21, 3/25, 5/30, 6/10, 7/4, 8/19, 9/5, 10/10, 11/11, 11/24, 12/23 (1/2), 12/26, 12/30 (1/2)									0	8	8	0	8	8	8	8	8	8	16	16	96	
Available hours per employee									168	160	184	168	176	176	168	184	176	168	176	176	2080	

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#1

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General Information Requests

For each of the HECO witnesses who sponsor test period budgeted labor direct expense amounts, please provide the following information:

a. Identify each employee involved in preparation of budgeted staffing and associated labor direct expense amounts included in the witnesses' portion of the rate case test period budget.

b. Provide complete copies of all calculations, spreadsheet files, "pencil" workpapers, surveys [illegible] performed by each of the employees identified in response to part (a)

forecast by first removing the labor hours allocated to subsidiary work from the total available hours and the remaining hours, devoted to HECO, are apportioned to NARUC 925 (Liability) and to NARUC 924 (Property).

The Insurance Area, which consists of the Director, Risk Management, Insurance Administrator and the Insurance Coordinator, develops their direct labor hour forecast by:

1) Mapping out on a yearly calendar the various insurance policy expiration dates along with the dates in which the application process should be started (information gathering and filling out of the application). This provides a snap-shot of the type of work being performed at any particular time.
2) Because some of the coverages overlap, or are included as part of the same policy renewal, the various allocations are weighted based upon the total premium allocated to each coverage. The results are used to determine the allocation of labor hours between the entities. In addition, 80 hours per month are taken from the total hours available for the Insurance Administrator and the Insurance Coordinator and are set aside for HECO to account for other non-insurance related labor costs, e.g., HECO specific meetings, training sessions, contract reviews, etc.
3) The total HECO labor hours are then allocated between 925 (Liability) and 924 (Property).
4) The labor hour allocations for the individuals are then categorized by the specific labor classification, i.e., Facilitator-Supervisor (NARUC 925 – 684.67 Hours, NARUC 924 – 339.04 Hours), Teacher/Coach (NARUC 925 – 5153.66 Hours, NARUC 924 – 2358.05 Hours) , Implementer (NARUC 925 – 1059.57 Hours, NARUC 924 – 405.93 Hours) and Bargaining Unit—Office and Clerical (NARUC

925 – 917.92 Hours, NARUC 924 – 2494.08 Hours), and are then input into the forecasting system which is linked to an hourly rate that produces a total labor for the Risk Management Division of $229,605 for NARUC 925 (Liability) and $149,436 for NARUC 924 (Property).

c. The Risk Management Division consists of the following:

Director, Risk Management (1) Facilitator--Supervisor

Insurance Administrator (1) Teacher/Coach

Insurance Coordinator (1) Implementer

Claims Administrator (1) Teacher/Coach

Claims Adjustor (3) Teacher/Coach

Claims Clerk (1) Bargaining Unit – Office & Clerical

Risk Management Clerk (1) Bargaining Unit – Office & Clerical

d. Not Applicable – Force Level Remains Unchanged

e. Not Applicable – Force Level Remains Unchanged

f. Not Applicable – Force Level Remains Unchanged

Insurance Area

Labor Details

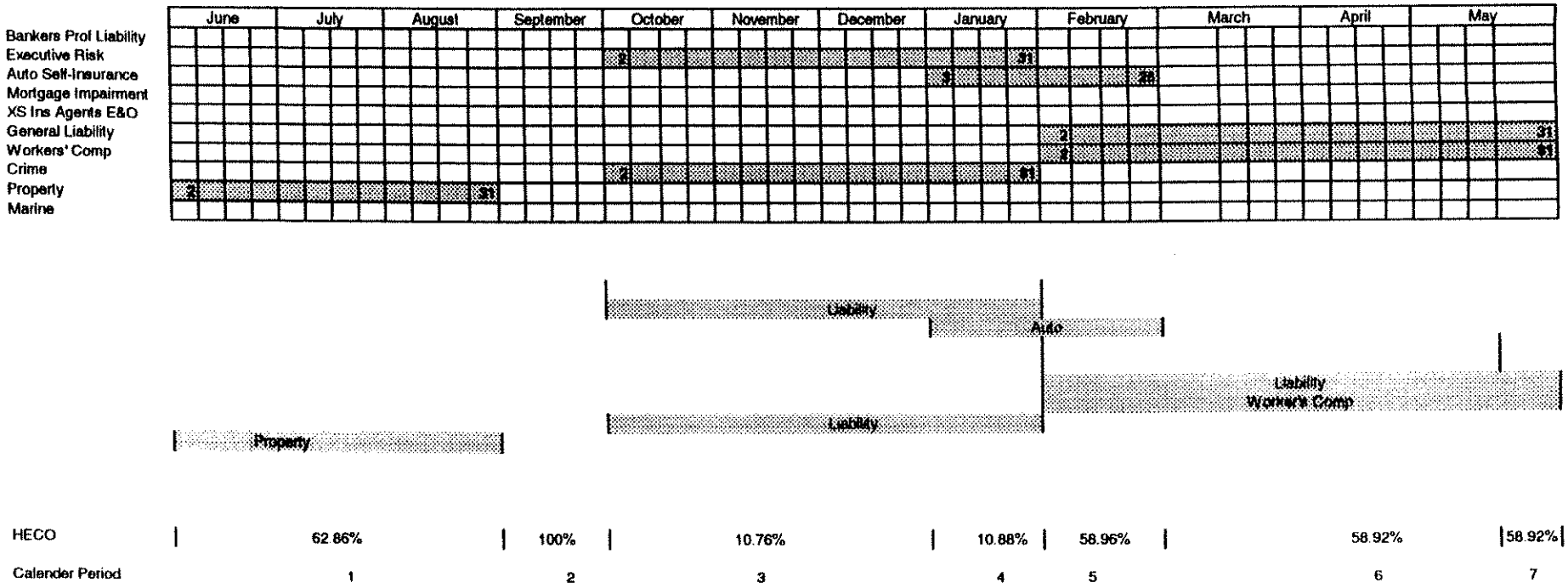
HECO's Premium Allocation (2/18/2004)

	Line of coverage	HECO	TOTAL
x	D&O	181,732.31	2,022,182.00
x	Fiduciary	66,790.28	127,973.44
x	SR	5,787.45	15,115.45
	Auto Bond	3,623.97	4,996.92
	GL	825,930.76	1,412,080.17
	XWC	164,026.70	268,040.89
	Prop w/o ics	1,351,159.39	2,189,864.43
	BM w/o ics	508,597.44	768,842.42
	Total	1,859,756.83	2,958,706.85
x	Crime	77,413.42	388,905.20
	P&I	3,176.25	3,176.25
	Hull & Machinery	457.20	457.20
	Inland/Ocean	6,000.00	50,000.00
	Bankers Prof	0.00	65,778.00
	Mrtg Imprmnt/E&O	0.00	33,497.60
	Ins Agents E&O	0.00	26,398.00
	XS Ins Agents E&O	0.00	0.00
	Frc'd Placed	0.00	16,748.88
	Lenders Protection	0.00	0.00
	Mtg Brokers Bond	0.00	0.00
	Property - ICS	1,487.50	3,551.24
	BIA Ins Agt E&O	0.00	124,614.00
	BIA XS Ins Agt E&O	0.00	52,500.00

Renewal Calendar Period

Property and BM	1,859,756.83	2,958,706.85	
	1,859,756.83	2,958,706.85	
	62.88%		
D&O	181,732.31	2,022,182.00	
Crime	77,413.42	388,905.20	
	259,145.73	2,409,087.20	
	10.76%		3
D&O	181,732.31	2,022,182.00	
Crime	77,413.42	388,905.20	
	262,769.70	2,414,084.12	
	10.88%		4
Auto Bond	3,623.97	4,996.92	
GL	825,930.76	1,412,080.17	
XWC	164,026.70	268,040.89	
	993,581.43	1,685,117.98	
	58.96%		5
Auto Bond	3,623.97	4,996.92	
GL	825,930.76	1,412,080.17	
XWC	164,026.70	268,040.89	
	993,581.43	1,685,117.98	
	58.96%		
GL	825,930.76	1,412,080.17	
XWC	164,026.70	268,040.89	
	989,957.46	1,680,121.06	
	58.92%		7
GL	825,930.76	1,412,080.17	
XWC	164,026.70	268,040.89	
	989,957.46	1,680,121.06	
	58.92%		6
Auto Bond	3,623.97	4,996.92	
D&O	181,732.31	2,022,182.00	
Crime	77,413.42	388,905.20	
	262,769.70	2,414,084.12	
	10.88%		
D&O	181,732.31	2,022,182.00	
Crime	77,413.42	388,905.20	
	259,145.73	2,409,087.20	

Renewal Calender



HECO	62.86%	100%	10.76%	10.88%	58.96%	58.92%	58.92%
Calender Period	1	2	3	4	5	6	7

Insurance Administrator - Teacher-Coach

2005 (WILLIE-T-C)	ST Hours	Xtra	098 Hol	098 Vac	098 Sick	789 Tng	749 Tng	Other	Available	HECO
January	168		0					80	88	89.57
February	160		8		8			80	64	117.74
March	184		8					80	96	136.56
April	168		0			40		80	48	108.28
May	176		8		8			80	80	127.12
June	176		8	80				80	8	85.03
July	168		8					80	80	130.28
August	184		8					80	96	140.34
September	176		8	80				80	8	88
October	168		8	40		32		80	8	80.86
November	176		16					80	80	88.6
December	176		16					80	80	88.6
	2080	0	96	200	16	72		**960**	**736**	1280.98
									1696	

Insurance Coordinator - Implementor

2005 (AMY-I)	ST Hours	Xtra	098 Hol	098 Vac	098 Sick	789 Tng	749 Tng	Other	Available	HECO
January	168		0		8			80	80	88.72
February	160		8					80	72	122.45
March	184		8					80	96	136.56
April	168		0					80	88	131.85
May	176		8		8			80	80	127.12
June	176		8					80	88	135.31
July	168		8					80	80	130.28
August	184		8					80	96	140.34
September	176		8					80	88	168
October	168		8	40				80	40	84.29
November	176		16	40				80	40	84.29
December	176		16	0	8			80	72	116.29
	2080	0	96	80	24			**960**	**920**	1465.5
									1880	

Director, Risk Management - Facilitator - Supervisor

2005 (RUSS-F-S)	ST Hours	Xtra	098 Hol	098 Vac	098 Sick	789 Tng	749 Tng	785 Emp	Available	HECO
January	168	20	0					9	179	28.49
February	160	20	8	24	8			7	133	85.41
March	184	20	8	40				8	148	95.21
April	168	20	0			40		7	141	90.08
May	176	20	8		8			9	171	109.76
June	176	20	8					9	179	121.52
July	168	20	8	40				7	133	90.61
August	184	20	8					10	186	126.91
September	176	20	8					9	179	188
October	168	20	8			32		7	141	22.16
November	176	20	16	16				8	156	24.78
December	176	20	16					9	171	40.78
	2080	240	96	120	16	72		99	**1917**	1023.71
									2016	

Allocation By Activity

		HECO	HECO
Property/BM		$ 1,859,756.83	100.00%
	(1)		
Property		1,859,756.83	100.00%
	(X)	$ 1,859,756.83	
D&O		181,732.31	
Crime		$ 77,413.42	
	(3)	$ 259,145.73	
D&O		181,732.31	
Crime		$ 77,413.42	
	(X)	$ 64,266.85	
Auto		$ 3,623.97	
D&O		181,732.31	
Crime		$ 77,413.42	
	(x)	$ 262,769.70	
Auto		$ 3,623.97	83.49%
GL		$ 825,930.76	
W/C		$ 164,026.70	16.51%
	(5)	$ 993,581.43	
GL		$ 825,930.76	83.43%
W/C		$ 164,026.70	16.57%
	(7)	$ 989,957.46	
GL		$ 825,930.76	83.43%
W/C		$ 164,026.70	16.57%
	(6)	$ 989,957.46	
D&O		181,732.31	
Auto Bond		3,623.97	
Crime		$ 77,413.42	
	(4)	$ 262,769.70	

Insurance Administrator (T-C) Hours Prorated by Activity

		HECO
WILLLIE (T-C)		
January	Liability	89.57
	Property	
	Marine	
	W/C	
February	Liability	98.3
	Property	
	Marine	
	W/C	19.44
March	Liability	113.93
	Property	
	Marine	
	W/C	22.63
April	Liability	90.34
	Property	
	Marine	
	W/C	17.94
May	Liability	106.06
	Property	
	Marine	
	W/C	21.06
June	Liability	
	Property	85.03
	Marine	
	W/C	
July	Liability	
	Property	130.28
	Marine	
	W/C	
August	Liability	
	Property	140.34
	Marine	
	W/C	
September	Liability	88
	Property	
	Marine	
	W/C	
October	Liability	80.86
	Property	
	Marine	
	W/C	
November	Liability	88.6
	Property	
	Marine	
	W/C	
December	Liability	88.6
	Property	
	Marine	
	W/C	

Insurance Coordinator (I) Hours Prorated by Activity

		HECO
AMY (I)		
January	Liability	88.72
	Property	
	Marine	
	W/C	
February	Liability	102.24
	Property	
	Marine	
	W/C	20.21
March	Liability	113.93
	Property	
	Marine	
	W/C	22.63
April	Liability	110
	Property	
	Marine	
	W/C	21.85
May	Liability	106.06
	Property	
	Marine	
	W/C	21.06
June	Liability	
	Property	135.31
	Marine	
	W/C	
July	Liability	
	Property	130.28
	Marine	
	W/C	
August	Liability	
	Property	140.34
	Marine	
	W/C	
September	Liability	168
	Property	
	Marine	
	W/C	
October	Liability	84.29
	Property	
	Marine	
	W/C	
November	Liability	84.29
	Property	
	Marine	
	W/C	
December	Liability	116.29
	Property	
	Marine	
	W/C	

Director, Risk Management (F-S) Hours Prorated by Activity

		HECO
Russ (F-S)		
January	Liability	28.49
	Property	
	Marine	
	W/C	
February	Liability	71.31
	Property	
	Marine	
	W/C	14.1
March	Liability	79.43
	Property	
	Marine	
	W/C	15.78
April	Liability	75.15
	Property	
	Marine	
	W/C	14.93
May	Liability	91.57
	Property	
	Marine	
	W/C	18.19
June	Liability	
	Property	121.52
	Marine	
	W/C	
July	Liability	
	Property	90.61
	Marine	
	W/C	
August	Liability	
	Property	126.91
	Marine	
	W/C	
September	Liability	188
	Property	
	Marine	
	W/C	
October	Liability	22.16
	Property	
	Marine	
	W/C	
November	Liability	24.78
	Property	
	Marine	
	W/C	
December	Liability	40.78
	Property	
	Marine	
	W/C	

Claims Area

Labor Details

Claims Administrator - Teacher-Coach

2005 (MARK-T-C)	ST Hours	Xtra	098 Hol	098 Vac	098 Sick	789 Tng	749 Tng	Other	Available	heco liab 0.6	heco prop 0.1	
Jan	168		0						168	100.80	16.80	
Feb	160	12	8	40					124	74.40	12.40	
Mar	184	12	8			8			180	108.00	18.00	
Apr	168		0		8				160	96.00	16.00	
May	176		8						168	100.80	16.80	
Jun	176		8	40					128	76.80	12.80	
Jul	168		8						160	96.00	16.00	
Aug	184		8			8			168	100.80	16.80	
Sep	176		8	40			40		88	52.80	8.80	
Oct	168		8		8				152	91.20	15.20	
Nov	176		16						160	96.00	16.00	
Dec	176	8	16	40					128	76.80	12.80	
Total	2080	32	96	160	16	16	40	0	1784	1070.40	178.40	1248.80

Claims Adjuster - Teacher-Coach

2005 (DEBBIE-T-C)	ST Hours	Xtra	098 Hol	098 Vac	098 Sick	789 Tng	749 Tng	Other	Available	heco liab 0.8	heco prop 0	
Jan	168		0						168	134.40	0.00	
Feb	160	12	8						164	131.20	0.00	
Mar	184	8	8						184	147.20	0.00	
Apr	168		0		8				160	128.00	0.00	
May	176		8	40		8			120	96.00	0.00	
Jun	176		8	40					128	102.40	0.00	
Jul	168		8	40					120	96.00	0.00	
Aug	184		8						176	140.80	0.00	
Sep	176		8			8			160	128.00	0.00	
Oct	168		8		8				152	121.60	0.00	
Nov	176		16						160	128.00	0.00	
Dec	176	8	16						168	134.40	0.00	
Total	2080	28	96	120	16	16	0	0	1860	1488.00	0.00	1488.00

Claims Adjuster - Teacher-Coach

2005 (DAVE-T-C)	ST Hours	Xtra	098 Hol	098 Vac	098 Sick	789 Tng	749 Tng	Other	Available	heco liab 0.8	heco prop 0.1	
Jan	168		0						168	134.40	16.80	
Feb	160	12	8						164	131.20	16.40	
Mar	184	8	8						184	147.20	18.40	
Apr	168		0		8				160	128.00	16.00	
May	176		8						168	134.40	16.80	
Jun	176		8						168	134.40	16.80	
Jul	168		8			8			152	121.60	15.20	
Aug	184		8	80					96	76.80	9.60	
Sep	176		8						168	134.40	16.80	
Oct	168		8	40	8				112	89.60	11.20	
Nov	176		16			8			152	121.60	15.20	
Dec	176	8	16						168	134.40	16.80	
Total	2080	28	96	120	16	16	0	0	1860	1488.00	186.00	1674.00

Claims Adjuster - Teacher-Coach

2005 (CINDY-T-C)	ST Hours	Xtra	098 Hol	098 Vac	098 Sick	789 Tng	749 Tng	Other	Available	heco liab 0.1	heco prop 0.9	
Jan	168		0						168	16.80	151.20	
Feb	160	12	8	40					124	12.40	111.60	
Mar	184	8	8			8			176	17.60	158.40	
Apr	168		0		8				160	16.00	144.00	
May	176		8						168	16.80	151.20	
Jun	176		8	40					128	12.80	115.20	
Jul	168		8						160	16.00	144.00	
Aug	184		8			8			168	16.80	151.20	
Sep	176		8						168	16.80	151.20	
Oct	168		8	40	8				112	11.20	100.80	
Nov	176		16						160	16.00	144.00	
Dec	176	8	16	40					128	12.80	115.20	
Total	2080	28	96	160	16	16	0	0	1820	182.00	1638.00	1820.00

Claims Clerk - Bargaining Unit-Office Clerical

2005 (SHIRLEY-BU-OC)	ST Hours	Xtra	098 Hol	098 Vac	098 Sick	789 Tng	749 Tng	Other	Available	heco liab 0.01	heco prop 0.99	
Jan	168		0						168	1.68	166.32	
Feb	160		8						152	1.52	150.48	
Mar	184		8	40	8				128	1.28	126.72	
Apr	168		0						168	1.68	166.32	
May	176		8			8			160	1.60	158.40	
Jun	176		8						168	1.68	166.32	
Jul	168		8	40	8				112	1.12	110.88	
Aug	184		8						176	1.76	174.24	
Sep	176		8	40					128	1.28	126.72	
Oct	168		8		8				152	1.52	150.48	
Nov	176		16	40					120	1.20	118.80	
Dec	176		16						160	1.60	158.40	
Total	2080	0	96	160	24	8	0	0	1792	17.92	1774.08	1792.00

Risk Management Clerk - Bargaining Unit-Office Clerical

2005 (GERI-BU-OC)	ST Hours	Xtra	098 Hol	098 Vac	098 Sick	789 Tng	749 Tng	Other	Available	heco liab 0.4	heco prop 0.3	liab ins 0.1	prop ins 0.1	payroll 777 0.03	invoice 843 0.05	order 842 0.02	
Jan	168		0						168	67.20	50.40	16.80	16.80	5.04	8.40	3.36	
Feb	160		8						152	60.80	45.60	15.20	15.20	4.56	7.60	3.04	
Mar	184		8	40	8				128	51.20	38.40	12.80	12.80	3.84	6.40	2.56	
Apr	168		0						168	67.20	50.40	16.80	16.80	5.04	8.40	3.36	
May	176		8			8			160	64.00	48.00	16.00	16.00	4.80	8.00	3.20	
Jun	176		8						168	67.20	50.40	16.80	16.80	5.04	8.40	3.36	
Jul	168		8	40					120	48.00	36.00	12.00	12.00	3.60	6.00	2.40	
Aug	184		8	40					136	54.40	40.80	13.60	13.60	4.08	6.80	2.72	
Sep	176		8		8				160	64.00	48.00	16.00	16.00	4.80	8.00	3.20	
Oct	168		8						160	64.00	48.00	16.00	16.00	4.80	8.00	3.20	
Nov	176		16						160	64.00	48.00	16.00	16.00	4.80	8.00	3.20	
Dec	176		16	40					120	48.00	36.00	12.00	12.00	3.60	6.00	2.40	
Total	2080	0	96	160	16	8	0	0	1800	720.00	540.00	180.00	180.00	54.00	90.00	36.00	1800.00

Labor
Category Input Sheets

Facilitator Supv Input Sheet

Facilitator Supervisor - 2005 Input Sheet

	Code Block	EE	January	February	March	April	May	June	July	August	September	October	November	December	
HECO	PKI098PHENDNPKZZZZZ	107	0	40	48	0	16	8	48	8	8	8	32	16	232
	PKI749PHENENPKZZZZZ	150	0	0	0	0	0	0	0	0	0	0	0	0	0
	PKI785PHENENPKZZZZZ	150	9	7	8	7	9	9	7	10	9	7	8	9	99
	PKI789PHENENPKZZZZZ	150	0	0	0	40	0	0	0	0	0	32	0	0	72
	PKI950PHENENPKZZZZZ	150	28.49	71.31	79.43	75.15	91.57	0	0	0	188	22.16	24.78	40.78	621.67
	PKI951PHENENPKZZZZZ	150	0	0	0	0	0	121.52	90.61	126.91	0	0	0	0	339.04
	PKI952PHENENPKZZZZZ	150	0	0	0	0	0	0	0	0	0	0	0	0	0
	PKI953PHENENPKZZZZZ	150	0	14.1	15.78	14.93	18.19	0	0	0	0	0	0	0	63
															1023.71
															1426.71

Teacher-Coach Input Sheet

Teacher/Coach - 2005 Input Sheet

	Code Block	EE	January	February	March	April	May	June	July	August	September	October	November	December	
HECO	PKI098PHENDNPKZZZZZ	107	0	128	32	32	88	240	80	120	160	192	80	160	1312
	PKI749PHENENPKZZZZZ	150	0	0	0	0	0	0	0	0	40	0	0	0	40
	PKI785PHENENPKZZZZZ	150													
	PKI789PHENENPKZZZZZ	150	0	0	16	40	8	0	8	16	8	32	8	0	136
	PKI950PHENENPKZZZZZ	150	475.97	447.50	533.93	458.34	454.06	326.40	329.60	335.20	420.00	394.46	450.20	447.00	5072.66
	PKI951PHENENPKZZZZZ	150	184.80	140.40	194.80	176.00	184.80	229.83	305.48	317.94	176.80	127.20	175.20	144.80	2358.05
	PKI952PHENENPKZZZZZ	150	0	0	0	0	0	0	0	0	0	0	0	0	0
	PKI953PHENENPKZZZZZ	150	0	19.44	22.63	17.94	21.06	0	0	0	0	0	0	0	81.07
															7511.78
															8999.78

Implementor Input Sheet

Implementor - 2005 Input Sheet

	Code Block	EE	January	February	March	April	May	June	July	August	September	October	November	December	
HECO	PKI098PHENDNPKZZZZZ	107	8	8	8	0	16	8	8	8	8	48	56	24	200
	PKI749PHENENPKZZZZZ	150	0	0	0	0	0	0	0	0	0	0	0	0	0
	PKI785PHENENPKZZZZZ	150													0
	PKI789PHENENPKZZZZZ	150	0	0	0	0	0	0	0	0	0	0	0	0	0
	PKI950PHENENPKZZZZZ	150	88.72	102.24	113.93	110	106.06	0	0	0	168	84.29	84.29	116.29	973.82
	PKI951PHENENPKZZZZZ	150	0	0	0	0	0	135.31	130.28	140.34	0	0	0	0	405.93
	PKI952PHENENPKZZZZZ	150	0	0	0	0	0	0	0	0	0	0	0	0	0
	PKI953PHENENPKZZZZZ	150	0	20.21	22.63	21.85	21.06	0	0	0	0	0	0	0	85.75
															1465.5
															1665.5

BU-OC INPUT SHEET

BU-OC - 2005 Input Sheet

	Code Block	EE	January	February	March	April	May	June	July	August	September	October	November	December	
HECO	PKI098PHENDNPKZZZZZ	107	0	16	112	0	16	16	104	56	64	24	72	72	552
	PKI777PHENENPKZZZZZ	150	5.04	4.56	3.84	5.04	4.80	5.04	3.60	4.08	4.80	4.80	4.80	3.60	54
	PKI842PHENENPKZZZZZ	150	3.36	3.04	2.56	3.36	3.20	3.36	2.40	2.72	3.20	3.20	3.20	2.40	36
	PKI843PHENENPKZZZZZ	150	8.40	7.60	6.40	8.40	8.00	8.40	6.00	6.80	8.00	8.00	8.00	6.00	90
	PKI749PHENENPKZZZZZ	150	0	0	0	0	0	0	0	0	0	0	0	0	0
	PKI789PHENENPKZZZZZ	150	0	0	0	0	16	0	0	0	0	0	0	0	16
	PKI950PHENENPKZZZZZ	150	85.68	77.52	65.28	85.68	81.60	85.68	61.12	69.76	81.28	81.52	81.20	61.60	917.92
	PKI951PHENENPKZZZZZ	150	233.52	211.28	177.92	233.52	222.40	233.52	158.88	228.64	190.72	214.48	182.80	206.40	2494.08
	PKI952PHENENPKZZZZZ	150													0
	PKI953PHENENPKZZZZZ	150													0
															3412
															4160

Available Hrs 2001-05

	2001	2002	2003	2004	2005
January	184	184	184	176	168
February	160	160	160	160	160
March	176	168	168	184	184
April	168	176	176	176	168
May	184	184	176	168	176
June	168	160	168	176	176
July	176	184	184	176	168
August	184	176	168	176	184
September	160	168	176	176	176
October	184	184	184	168	168
November	176	168	160	176	176
December	168	176	184	184	176
	2088	2088	2088	2096	2080

Harris, Russ

#3 | #14

From: Fujii, Arvin
Sent: Wednesday, December 29, 2004 8:04 AM
To: Harris, Russ
Cc: Yoshida, Steve
Subject: CA-IR-1(Russ).doc
Importance: High

Russ,

Attached are our responses to the IR, as well as, worksheets that were used to prepare our forecast. I have highlighted the items in yellow to indicate the amounts that relate to your area. Please give me a call if you have any questions or concerns. Thanks.

CA-IR-1

General Information Requests

For each of the HECO witnesses who sponsor test period budgeted labor direct expense amounts, please provide the following information:

a. Identify each employee involved in preparation of budgeted staffing and associated labor direct expense amounts included in the witnesses' portion of the rate case test period budget.

b. Provide complete copies of all calculations, spreadsheet files, "pencil" work papers, surveys and other analyses performed by each of the employees identified in response to part (a), documenting all work done to determine required staffing levels and overtime hours by Department, RA, Activity and NARUC Account.

c. Describe the actual force level that existed at the date the budget was prepared or otherwise served as a base for purposes of preparing the budget level.

d. For each budgeted employee position that is added to existing actual force levels (as the date the budget was prepared), **explain** the analyses undertaken to determine that each added position was necessary and should be filled in order to meet present or anticipated work requirements. Also, please explain how the anticipated work requirements were defined and determined.

e. Describe and, to the extent possible, quantify the backlog of work, unfinished projects, deferred maintenance and other labor requirements unfulfilled at present staffing levels, that will be satisfied by adding the employee positions identified in your response to part (d).

f. Provide complete copies of all studies, analyses, work papers, projections, notes, correspondence, assumptions and other documents associated with your responses to parts (d) and (e) above.

HECO Response:

a. The following employees prepared the 2005 Rate case budget for Construction &

Labor Input Sheet - NonProject
2005

Resp Area (RA) DS
Labor Class D_UGCREW

Prepared by Arvin Fujii
Date 2/18/2004

Dimension tab card								Rates tab card	Units tab card												
Line Item	RA	Act	Loc	Ind	Proj	EE	Labor Class	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Labor Supply:									*(enter employee count in "Units tab card")*												
Labor Supply	DS	*Supply	*Supply	*Supply	*Supply	*Supply	D_UGCREW	Available Hours	23	23	23	23	23	23	23	22	22	22	21	21	269
Labor Demand:									*(enter hours in "Units tab card")*												
Holiday	DS	098	PHE	ND	NPDZZZZZ	107	D_UGCREW	D_UGCREW	0	184	184	0	184	184	184	176	176	176	336	336	2,120
Vacation	DS	098	PHE	ND	NPDZZZZZ	107	D_UGCREW	D_UGCREW	246	176	231	185	178	256	224	230	166	205	290	291	2,677
Other NPW	DS	098	PHE	ND	NPDZZZZZ	107	D_UGCREW	D_UGCREW	98	70	92	74	71	102	89	92	66	82	116	116	1,071
Workers Comp	DS	098	PHE	ND	NPDZZZZZ	108	D_UGCREW	D_UGCREW	186	178	196	146	193	180	208	239	154	154	142	113	2,089
Maint Dist Tools & Equip	DS	492	OAH	NE	NPDZZZZZ	150	D_UGCREW	D_UGCREW	6	6	6	5	6	5	5	5	4	4	4	4	60
Strategic Planning Meetings	DS	700	OAH	NC	NPDZZZZZ	150	D_UGCREW	D_UGCREW	0	121	0	0	0	0	0	16	6	0	0	0	143
Maintin Relationship w/Customer	DS	753	OAH	NC	NPDZZZZZ	150	D_UGCREW	D_UGCREW	21	41	0	0	21	0	0	0	118	0	0	0	201
Attend Training	DS	789	OAH	NC	NPDZZZZZ	150	D_UGCREW	D_UGCREW	176	195	48	236	237	78	92	113	59	133	81	148	1,596
Personal Restrictive Duty	DS	795	PDO	NE	NPDZZZZZ	150	D_UGCREW	D_UGCREW	6	6	6	6	6	6	6	6	6	6	6	6	76
Environmental Training	DS	795	OAH	NC	NPDZZZZZ	150	D_UGCREW	D_UGCREW	0	0	98	33	4	9	23	17	19	6	52	40	301
Attend Safety Training	DS	797	OAH	NC	NPDZZZZZ	150	D_UGCREW	D_UGCREW	58	102	73	72	77	30	36	46	66	193	19	20	792
Prov & Support the Bus/Mng Risk & Loss Control	DS	951	PDM	NE	NPDZZZZZ	150	D_UGCREW	D_UGCREW	84	79	81	67	73	62	64	55	56	58	56	57	792
								Total NonProj/Pgm Demand	882	1,159	1,015	825	1,051	912	932	995	897	1,017	1,102	1,132	11,918
								Total Supply	3,864	3,680	4,232	3,864	4,048	4,048	3,864	4,048	3,872	3,696	3,696	3,696	46,608
									(2,982)	(2,521)	(3,217)	(3,039)	(2,997)	(3,136)	(2,932)	(3,053)	(2,975)	(2,679)	(2,594)	(2,564)	
Holidays - 2/21, 3/25, 5/30, 6/10, 7/4, 8/19, 9/5, 10/10, 11/11, 11/24, 12/23 (1/2), 12/26, 12/30 (1/2)									0	8	8	0	8	8	8	8	8	8	16	16	96
Available hours per employee									168	160	184	168	176	176	168	184	176	168	176	176	2080

NOTE: Total NonProject Demand hours may *NOT* equal Total Supply hours due to Project Demand hours (which are budgeted in the Project file)

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Labor Input Sheet - NonProject
2005

Resp Area (RA) DS
Labor Class D_OHCREW Summary

Prepared by Arvin Fujii
Date 2/18/2004

Dimension tab card								Rates tab card	Units tab card												
Line Item	RA	Act	Loc	Ind	Proj	EE	Labor Class	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Labor Supply:									*(enter employee count in "Units tab card")*												
Labor Supply	DS	*Supply	*Supply	*Supply	*Supply	*Supply	D_OHCREW	Available Hours	133	133	133	133	133	133	133	134	134	134	135	137	1,605
Labor Demand:									*(enter hours in "Units tab card")*												
Holiday	DS	098	PHE	ND	NPDZZZZZ	107	D_OHCREW	D_OHCREW	0	1,064	1,064	0	1,064	1,064	1,064	1,072	1,072	1,072	2,160	2,192	12,888
Vacation	DS	098	PHE	ND	NPDZZZZZ	107	D_OHCREW	D_OHCREW	1,261	917	1,201	965	926	1,330	1,164	1,253	906	1,118	1,664	1,691	14,418
Other NPW	DS	098	PHE	ND	NPDZZZZZ	107	D_OHCREW	D_OHCREW	570	407	534	429	412	591	518	560	405	499	745	759	6,429
Workers Comp	DS	098	PHE	ND	NPDZZZZZ	108	D_OHCREW	D_OHCREW	58	55	61	45	60	56	65	74	48	48	44	35	649
Maintain Dist SCADA System	DS	491	OAH	NC	NPDZZZZZ	150	D_OHCREW	D_OHCREW	173	173	173	173	173	173	173	173	173	173	173	173	2,080
Maint Dist Tools & Equip	DS	492	OAH	NE	NPDZZZZZ	150	D_OHCREW	D_OHCREW	105	100	103	85	93	78	81	69	70	73	71	72	1,000
Resp to Cust Inq & Svc Req	DS	600	OAH	NC	NPDZZZZZ	150	D_OHCREW	D_OHCREW	37	37	37	37	37	37	37	37	37	37	37	37	444
Strategic Planning Meetings	DS	700	OAH	NC	NPDZZZZZ	150	D_OHCREW	D_OHCREW	9	188	0	0	9	1	18	21	18	31	8	18	299
Improve Business Process	DS	720	OAH	NC	NPDZZZZZ	150	D_OHCREW	D_OHCREW	37	27	20	37	38	29	20	23	34	15	49	70	399
Maint Relationship w/Community	DS	753	OAH	NC	NPDZZZZZ	150	D_OHCREW	D_OHCREW	68	111	154	95	41	63	112	135	229	293	262	38	1,599
Dev,Mng & Admin EE Polic,Prac & Proc	DS	765	PDO	NC	NPDZZZZZ	150	D_OHCREW	D_OHCREW	46	31	53	37	46	35	49	52	39	26	26	20	460
Plan for & Det EE Train & Dev	DS	785	OAH	NC	NPDZZZZZ	150	D_OHCREW	D_OHCREW	48	48	48	48	48	48	48	48	48	48	48	48	576
Employee Development	DS	786	OAH	NC	NPDZZZZZ	150	D_OHCREW	D_OHCREW	0	0	0	0	0	200	376	0	0	0	0	0	576
Volunteer Trainers	DS	788	PDO	NC	NPDZZZZZ	150	D_OHCREW	D_OHCREW	0	40	80	40	72	144	4	60	60	24	140	0	664
Attend Training	DS	789	OAH	NC	NPDZZZZZ	150	D_OHCREW	D_OHCREW	0	400	688	320	672	936	225	460	480	363	140	0	4,704
Environmental Training	DS	795	OAH	NC	NPDZZZZZ	150	D_OHCREW	D_OHCREW	0	0	27	30	223	63	31	226	127	92	216	154	1,189
Personal Restrictive Duty	DS	795	PDO	NE	NPDZZZZZ	150	D_OHCREW	D_OHCREW	208	208	208	208	208	208	208	208	208	208	208	208	2,500
Attend Safety Training	DS	797	OAH	NC	NPDZZZZZ	150	D_OHCREW	D_OHCREW	198	401	301	329	402	249	190	303	300	546	98	129	3,446
Maintain Vehicles	DS	942	PDO	NE	NPDZZZZZ	150	D_OHCREW	D_OHCREW	852	798	823	878	742	622	647	554	582	588	565	573	8,004
								Total NonProj/Pgm Demand	3,691	4,986	5,576	3,557	5,267	5,928	5,029	5,349	4,817	5,255	6,655	6,216	62,322
								Total Supply	22,344	21,280	24,472	22,344	23,408	23,408	22,344	24,656	23,584	22,512	23,760	24,112	278,224
									(18,653)	(16,294)	(18,896)	(18,787)	(18,141)	(17,480)	(17,315)	(19,307)	(18,767)	(17,257)	(17,105)	(17,896)	
Holidays - 2/21, 3/25, 5/30, 6/10, 7/4, 8/19, 9/5, 10/10, 11/11, 11/24, 12/23 (1/2), 12/26, 12/30 (1/2)									0	8	8	0	8	8	8	8	8	8	16	16	96
Available hours per employee									168	160	184	168	176	176	168	184	176	168	176	176	2080

NOTE: Total NonProject Demand hours may *NOT* equal Total Supply hours due to Project Demand hours (which are budgeted in the Project file)

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The staffing level within the Safety Division is based on the elements that make up HECO's safety and health program. Our safety and health program is basically driven by the needs of our trades and crafts positions in the operating departments (e.g., C&M, O&M, System Operations, Customer Service, CID, Support Services). HiOSH and OSHA determine the minimum safety

CA-IR-1 Direct Labor

Line Item #	NARUC	NARUC Descr	*Act #	RA	*EE #	FY05 Budget05	Budget Prep - Source	Explanation		
5	925	INJURIES & DAMA	112	PFS	150	$2,208	Alden Ishii			
6	925	INJURIES & DAMA	700	PFS	150	$2,150	Alden Ishii	Estimate 54 hrs/yr based on 4-yr ave; SF000317 - 211 hrs total / 4 yrs = 53 hrs		
7	925	INJURIES & DAMA	701	PFS	150	$4,299	Alden Ishii	Estimate 13.5 hrs/mo for Safety Director for monthly budget updates		
8	925	INJURIES & DAMA	720	PFS	150	$5,651	Alden Ishii	Estimate 12 hrs/mo for Safety Director to review effectiveness of safety & health program		
9	925	INJURIES & DAMA	749	PFS	150	$36,719	Alden Ishii	Estimate 12 hrs/mo for safety professionals (6) plus 10 hrs/mo for admin staff (3)		
10	925	INJURIES & DAMA	777	PFS	150	$4,247	Alden Ishii	Estimate 3hrs/pay period x 26 periods + 14 hrs for adjustments; SF000319 - 208 hrs total since 6/01		
11	925	INJURIES & DAMA	785	PFS	150	$26,586	Alden Ishii	Proportioned 25% of costs associated with work orders SF000005, SF000006, SF000083, SF000008	SF000005, SF000006, SF000083, SF000008, **Total**	1,800, 1,200, 3,600, 6,800, **13,400**
12	925	INJURIES & DAMA	787	PFS	150	$5,642	Alden Ishii	Proportioned 1.5% of costs associated with work orders SF000005, SF000006, SF000083, SF000008	SF000005, SF000006, SF000083, SF000008, **Total**	1,800, 1,200, 3,600, 6,800, **13,400**
13	925	INJURIES & DAMA	789	PFS	150	$16,494	Alden Ishii	SF000218 - 2509hrs / 47periods = 53hrs/period; 53hrs/period x 10periods = 530 hrs		
18	925	INJURIES & DAMA	795	PFS	150	$337,285	Alden Ishii	Proportioned 62.5% of costs associated with work orders SF000005, SF000006, SF000083, SF000008	SF000005, SF000006, SF000083, SF000008, **Total**	1,800, 1,200, 3,600, 6,800, **13,400**
20	925	INJURIES & DAMA	796	PFS	150	$79,619	Alden Ishii	Historical costs associated with work orders SF000050, SF000051, SF000064, SF000061, & SF000063	SF000050, SF000051, SF000064, SF000060, SF000063 **Total**	500, 338, 2,003, 29, 95, **2,965**
21	925	INJURIES & DAMA	797	PFS	150	$38,282	Alden Ishii	Proportioned 10% of costs associated with work orders SF000005, SF000006, SF000083, SF000008	SF000005, SF000006, SF000083, SF000008, **Total**	1,800, 1,200, 3,600, 6,800, **13,400**
22	925	INJURIES & DAMA	842	PFS	150	$4,291	Alden Ishii	Estimate 16hrs/mo for clerical support; SF000320 - 675hrs / 42mos = 16hrs/mo		
23	925	INJURIES & DAMA	843	PFS	150	$4,247	Alden Ishii	Estimate 16 hrs/mo for clerical support; SF000321 - 611hrs / 42mos = 15hrs/mo		
26	925	INJURIES & DAMA	950	PFS	150	$20,781	Alden Ishii	SF000016, SF000086 = 3864hrs / 70periods = 55hrs/period; 55 Hrs/period x 12 periods = 660 hrs	SF000018, SF000086, **Total**	1,178 , 2,686 , **3,864**

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12/28/2004

*VIEW: Labor Hour

*RA #	*Act #	*Loc #	*Ind #	*EE #	Line item	FY04	FY05	
PFS	777	PHE	NE	150	Payroll - Safety Aide	92	92	#10
PFS	777					184	184	
PFS	785	PHE	NE	150	Training Dev - Safety Aide	1,306	1,290	
PFS	785	PHE	NE	150	Training Dev - Clerk Typist III	1,266	1,250	
PFS	785	PHE	NE	150	Training Dev - FEI& Repairer(DD)	112	112	
PFS	785	PHE	NE	150	Training Dev - FEI&Repairer (GK)	112	112	
PFS	785	PHE	NE	150	Training Dev - Fleet Specialist (KT)	107	107	
PFS	785	PHE	NE	150	Training Dev - OHSS (AS)	112	112	
PFS	785	PHE	NE	150	Training Dev - OHSS (EY)	112	112	
PFS	785	PHE	NE	150	Training Dev - OHSS (JM)	107	107	
PFS	785	PHE	NE	150	Training Dev - OHSS (RR)	37	37	
PFS	785	PHE	NE	150	Training Dev - PSafety Specialist (RP)	62	54	
PFS	785	PHE	NE	150	Training Dev - Safety Director	68	68	#11
PFS	785					3,401	3,361	
PFS	787	PHE	NE	150	Dev Ee Training - Fleet Specialist (KT)	62	54	
PFS	787	PHE	NE	150	Dev Ee Training - OHSS (RR)	130	130	#12
PFS	787					192	184	
PFS	789	PHE	NE	150	Attend Training - FEI&Repairer (DD)	148	148	
PFS	789	PHE	NE	150	Attend Training - FEI&Repairer (GK)	148	148	
PFS	789	PHE	NE	150	Attend Training - OHSS (RR)	92	92	
PFS	789	PHE	NE	150	Attend Training - PSafety Specialist (RP)	113	113	
PFS	789	PHE	NE	150	Attend Training - Safety Director	37	37	#13
PFS	789					538	538	
PFS	795	PHE	NE	150	Safety Programs/Training - Clerk Typist III	36	36	
PFS	795	PHE	NE	150	Safety Programs/Training - FEI&Repairer (DD)	112	112	
PFS	795	PHE	NE	150	Safety Programs/Training - FEI&Repairer (GK)	112	112	
PFS	795	PHE	NE	150	Safety Programs/Training - Fleet Specialist (...	1,175	1,163	
PFS	795	PHE	NE	150	Safety Programs/Training - OHSS (AS)	1,295	1,283	
PFS	795	PHE	NE	150	Safety Programs/Training - OHSS (EY)	1,160	1,149	
PFS	795	PHE	NE	150	Safety Programs/Training - OHSS (JM)	1,137	1,124	
PFS	795	PHE	NE	150	Safety Programs/Training - OHSS (RR)	1,237	1,222	
PFS	795	PHE	NE	150	Safety Programs/Training - PSafety Speciali...	1,160	1,146	
PFS	795	PHE	NE	150	Safety Programs/Training - Safety Aide	36	36	
PFS	795	PHE	NE	150	Safety Programs/Training - Safety Director	1,022	1,006	#18
PFS	795					8,482	8,389	
PFS	796	PHE	NE	150	Fire Protection - FEI&Repairer (DD)	1,331	1,316	
PFS	796	PHE	NE	150	Fire Protection - FEI&Repairer (GK)	1,338	1,322	
PFS	796	PHE	NE	150	Fire Protection - Fleet Specialist (KT)	107	107	
PFS	796	PHE	NE	150	Fire Protection - OHSS (EY)	112	112	
PFS	796	PHE	NE	150	Fire Protection - OHSS (JM)	107	107	#20
PFS	796					2,995	2,964	
PFS	797	PHE	NE	150	Attend Safety Training - Clerk Typist III	92	92	
PFS	797	PHE	NE	150	Attend Safety Training - FEI&Repairer (DD)	148	148	
PFS	797	PHE	NE	150	Attend Safety Training - FEI&Repairer (GK)	148	148	
PFS	797	PHE	NE	150	Attend Safety Training - Fleet Specialist (KT)	140	140	
PFS	797	PHE	NE	150	Attend Safety Training - OHSS (AS)	148	147	

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*VIEW: Labor Hour

*RA #	*Act #	*Loc #	*Ind #	*EE #	Line item	FY04	FY05	
PFS	797	PHE	NE	150	Attend Safety Training - OHSS (EY)	148	147	
PFS	797	PHE	NE	150	Attend Safety Training - OHSS (JM)	141	141	
PFS	797	PHE	NE	150	Attend Safety Training - OHSS (RR)	92	92	
PFS	797	PHE	NE	150	Attend Safety Training - PSafety Specialist (...	140	140	
PFS	797	PHE	NE	150	Attend Safety Training - Safety Aide	92	92	
PFS	797	PHE	NE	150	Attend Safety Training - Safety Director	37	37	
PFS	797					1,326	1,324	#21
PFS	842	PHE	NE	150	Order Materials - Clerk Typist III	92	92	
PFS	842	PHE	NE	150	Order Materials - Safety Aide	94	94	
PFS	842					186	186	#22
PFS	843	PHE	NE	150	Process Invoices - Clerk Typist III	92	92	
PFS	843	PHE	NE	150	Process Invoices - Safety Aide	92	92	
PFS	843					184	184	#23
PFS	950	PHE	NE	150	Risk Management - Fleet Specialist (KT)	180	180	
PFS	950	PHE	NE	150	Risk Management - OHSS (AS)	75	75	
PFS	950	PHE	NE	150	Risk Management - OHSS (EY)	75	75	
PFS	950	PHE	NE	150	Risk Management - OHSS (JM)	71	71	
PFS	950	PHE	NE	150	Risk Management - PSafety Specialist (RP)	188	187	
PFS	950	PHE	NE	150	Risk Management - Safety Director	69	69	
PFS	950					658	657	
						23,055	22,880	#26

General Information Requests

For each of the HECO witnesses who sponsor test period budgeted labor direct expense amounts, please provide the following information:

a. Identify each employee involved in preparation of budgeted staffing and associated labor direct expense amounts included in the witnesses' portion of the rate case test period budget.

b. Provide complete copies of all calculations, spreadsheet files, "pencil" workpapers, surveys and other analyses performed by each of the employees identified in response to part (a), documenting all work done to determine required staffing levels and overtime hours by Department, RA, Activity and NARUC Account.

c. Describe the actual force level that existed at the date the budget was prepared or otherwise served as a base for purposes of preparing the budget level.

d. For each budgeted employee position that is added to existing actual force levels (as the date

12/21/2004

*VIEW: Direct Labor Cost - 795

_RA	_A...	_Loc	_Ind	_Proj	_...	_LbrClass	Line Item	FY05	Jan 05	Feb 05	Mar 05	Apr 05	May 05	Jun 05	Jul 05	Aug 05	Sep 05	Oct 05	Nov 05	Dec 05
PFB	795	PHE	NE	NPFZZZZZ	150	__TC	HECO LABOR 795	15	0	0	1	5	0	2	0	5	1	0	0	1
								$460.05	$0.00	$0.00	$30.67	$153.35	$0.00	$61.34	$0.00	$153.35	$30.67	$0.00	$0.00	$30.67
								15	0	0	1	5	0	2	0	5	1	0	0	1
								$460.05	$0.00	$0.00	$30.67	$153.35	$0.00	$61.34	$0.00	$153.35	$30.67	$0.00	$0.00	$30.67

#15

CA-IR-1
DOCKET NO. 04-0113
HECO T-14
ATTACHMENT 6
PAGE 2 OF 17

#23 Net Balance #27

10:15AM

*VIEW: Direct Labor Cost - 953

LbrClass	Line Item	FY05	Jan 05	Feb 05	Mar 05	Apr 05	May 05	Jun 05	Jul 05	Aug 05	Sep 05	Oct 05	Nov 05	Dec 05
E	HECO LABOR	0	0	0	0	0	0	0	0	0	0	0	0	0
		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
I	HECO LABOR (IAM)	0	0	0	0	0	0	0	0	0	0	0	0	0
		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
TC	HECO (Disability Management) 953	60	5	5	5	5	5	5	5	5	5	5	5	5
		$1,840.20	$153.35	$153.35	$153.35	$153.35	$153.35	$153.35	$153.35	$153.35	$153.35	$153.35	$153.35	$153.35
TCS	HECO LABOR (IAM)	0	0	0	0	0	0	0	0	0	0	0	0	0
		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
TC	Analyst Labor	0	0	0	0	0	0	0	0	0	0	0	0	0
		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
FS	Director	1,308	109	79	159	109	109	109	109	149	139	19	109	109
		$52,071.48	$4,339.29	$3,144.99	$6,329.79	$4,339.29	$4,339.29	$4,339.29	$4,339.29	$5,931.69	$5,533.59	$756.39	$4,339.29	$4,339.29
FS	Director - Interfaces w/ AP & HR	0	0	0	0	0	0	0	0	0	0	0	0	0
		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
I	Coordinator	1,600	146	127	150	141	146	99	135	151	140	96	134	135
		$37,952.00	$3,463.12	$3,012.44	$3,558.00	$3,344.52	$3,463.12	$2,348.28	$3,202.20	$3,581.72	$3,320.80	$2,277.12	$3,178.48	$3,202.20
I	Coordinator-Interfaces w/ AP & HR	0	0	0	0	0	0	0	0	0	0	0	0	0
		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
TC	Administrator	1,676	145	140	153	146	145	146	140	155	148	100	140	120
		$51,402.92	$4,447.15	$4,293.80	$4,692.51	$4,477.82	$4,447.15	$4,477.82	$4,293.80	$4,753.65	$4,477.82	$3,067.00	$4,293.80	$3,680.40
FS	WC Director	0	0	0	0	0	0	0	0	0	0	0	0	0
		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
I	WC Coordinator	10	0	0	1	1	1	1	1	1	1	1	1	1
		$237.20	$0.00	$0.00	$23.72	$23.72	$23.72	$23.72	$23.72	$23.72	$23.72	$23.72	$23.72	$23.72
		4,654	405	351	468	402	406	360	390	461	431	221	389	370
		$143,503.80	$12,402.91	$10,604.58	$14,757.37	$12,338.70	$12,426.63	$11,342.46	$12,012.36	$14,444.33	$13,509.26	$6,277.58	$11,966.64	$11,398.96

#27 & #28

Ho, Karen

From: Ho, Karen
Sent: Saturday, February 07, 2004 3:04 PM
To: zz$HR-FB; zz$HR-FC
Subject: RE: Labor Forecast for 2005

Keep in mind that this is just a forecast so all I need is your best estimate. Thanks!

-----Original Message-----
From: Ho, Karen
Sent: Saturday, February 07, 2004 2:59 PM
To: zz$HR-FB; zz$HR-FC
Subject: Labor Forecast for 2005
Importance: High

Hi-

I am preparing our department's labor forecast for 2005 and desperately need your help. In your in-box is a spreadsheet of your 2003 actual hours charged to the different activities. The column headings are the various activities that you have performed. At the bottom of the spreadsheet is the percentage of productive hours (the total hours charged to that activity divided by the grand total of the last column). Please review the report and various activities that you have charged your time to. There maybe some activities that you performed in 2003 that doesn't necessarily apply to 2005. Therefore, please make the following adjustments:

- cross out the activities that does not apply to 2005
- add activities that you will be doing in 2005 that do not appear on the report and include the % of productive time
- adjust the percentage of productive hours (i.e., if you are not performing a particular activity in 2005, that time is spent doing something else; therefore, you would need to add that time to another activity)

Also, please let me know when you plan to take vacation in 2005. I need the hours by month. This will help me determine the total productive hours (total available hours per month minus vacation/holidays).

For your information, labor hours are entered into the Pillar budgeting system by hours per month. I need to enter vacation by hours per month and labor by activity by hours per month. Yes, a very tedious process!

DEADLINE: Return the spreadsheet with your changes to me ASAP or by end of the day on Monday, February 9. I need time to enter all this on Pillar and my deadline is Noon on February 11.

CONFUSING?...QUESTIONS?...Please see me if you have any questions.

Thank you!
Karen

Prepared by KHO
Date 2/7/2004

Units tab card

Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
(enter employee count in "Units tab card")									
3	3	3	3	3	3	3	3	3	36
(enter hours in "Units tab card")									
0	24	24	24	24	24	24	48	48	288
		40	80					120	320
									0
									0
46	48	25	46						188
11	1								12
11									11
20	30	26	45	98	98	78	83	36	712
6	5	6	5	6	5	6	5	5	65
2				2				2	6
			2						2
			2						2
			2						2
			2						2
		2			1			1	4
									2
			2	2	3	2	2	2	15
			2	2	3	2	2	2	15
	2			2			2		6
107 132	176 181	107 132	107 132	171 156	106 131	107 132	106 131	84 50	[illegible] 128
3	3	3	3	3	3	3	3	2	25
3	5	4	3	4	4	3	4	3	46
3	3	3	3	3	3	3	3	2	35
3	3	3	3	3	3	4	3	3	37
		2			3			2	7
6	7	8	5	6	5	12	9	6	67
4	1	2	4	1	2	4	1	3	31
10	6	10	6	10	7	7	8	9	[illegible]
15	12	12	14	13	12	15	12	13	[illegible]
14	11	15	13	12	14	13	11	16	[illegible]
		1						1	[illegible]
41	55	53	46	50	47	49	46	49	[illegible]

Dimension tab card								Rates tab card	Units tab card												
Line Item	RA	Act	Loc	Ind	Proj	EE	Labor Class	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Other Ee Benefits	PFB	780	HEI	NE	NPFZZZZZ	150	TC	TC	1	3	1	2	1	2	1	1	1	1	1	3	18
Other Ee Benefits	PFB	780	HEL	NE	NPFZZZZZ	150	TC	TC	1	1	1	1	1	9	1	1	1	1	1	3	22
Other Ee Benefits	PFB	780	MAU	NE	NPFZZZZZ	150	TC	TC		1				1						2	4
Other Ee Benefits	PFB	780	PHE	NE	NPFZZZZZ	150	TC	TC	6	8	5	7	5	7	5	7	5	7	5	8	75
IAM	PFB	780	PHE	NE	NPFZZZZZ	150	TC	TC	2	2	2	3	2	2	2	2	3	2	2	2	26
PDS Prep/Mtg	PFB	785	PHE	NE	NPFZZZZZ	150	TC	TC	6												6
Attend Training	PFB	789	PHE	NE	NPFZZZZZ	150	TC	TC		2		3	1			2	3				11
Attend Safety Training	PFB	797	PHE	NE	NPFZZZZZ	150	TC	TC	2												2
Process Invoices/ProCard	PFB	843	PHE	NE	NPFZZZZZ	150	TC	TC	7	7	7	7	7	8	7	7	7	7	7	8	88
AIP/EAP/IAM/Well/MedCon	PFB	780	PHE	NE	NPFZZZZZ	150	TC	TC	147	147	147	147	147	147	147	147	147	147	147	147	1,764
Flu Shots/ Safety General	PFB	795	PHE	NE	NPFZZZZZ	150	TC	TC			1	5		2		5	1			1	15
Workers' Compensation	PFB	953	PHE	NE	NPFZZZZZ	150	TC	TC	5	5	5	5	5	5	5	5	5	5	5	5	60
Workers' Compensation	PFB	953	HEL	BE	NPFZZZZZ	150	TC	TC			1			1			1			1	4
Workers' Compensation	PFB	953	MAU	BE	NPFZZZZZ	150	TC	TC				1				1				1	3
HR Suite Proj	PFB					150	TC	TC	25	25	25	25	25	25	25	25	25	25	25	25	[illegible]
								Total NonProj/Pgm Demand	523	525	585	511	546	555	612	575	542	527	541	565	6,607
								Total Supply	504	480	552	504	528	528	504	552	528	504	528	528	6,240
Holidays - 2/21, 3/25, 5/30, 6/10, 7/4, 8/19, 9/5, 10/10, 11/11, 11/24, 12/23 (1/2), 12/26, 12/30 (1/2)									0	8	8	0	8	8	8	8	8	8	16	16	96
Available hours per employee									168	160	184	168	176	176	168	184	176	168	176	176	2080
								Demand minus Supply	19	45	33	7	18	27	108	23	14	23	13	37	367

NOTE: Total NonProject Demand hours may *NOT* equal Total Supply hours due to Project Demand hours (which are budgeted in the Project file)

2003 Actual Hours - JMarler

Sum of NO_OF_HOURS	Attend Safety Training	Attend Training	Attendance Improvement Prog Admin	Corp Health Admin - EAP Services	Dev,Mngs,Admin Employee Pol,Prac & Proc	Develop & Administer Business Plans	Empl Benefits Admin & General Exp	FLU SHOTS	H01500 HELCO ICB-WC	HELCO FMLA	HIPAA Task Force	INCIDENT RESPONSE PLAN AND EXERCISE	Integrated Absence Management	Integrated Absence Mgmt / Case Mgmt	M15817 001 MECO ICB-WC	Maint Rel w/ Industry, Prof Assoc	Medical Consulting Services	Negotiations 2003
process_date																		
adjusted hrs	1	3	314	3	0	4	[redacted]	10	4	7	0	[redacted]	15	1346	3	6	79	0
adjusted percentage of productive hrs	0.1%	0.2%	16.5%	0.2%	0.0%	0.2%	1.4%	0.5%	0.2%	0.4%	0.0%	0.3%	0.8%	70.7%	0.2%	0.3%	4.2%	0.0%
	797	789	780			700	776	795	953	780		776	780		953	749	780	

780 AIP/EAP/IAM/Wellness Medical Consulting 1763

776 Et Ben-gen, Incident Response 31

795 Flu Shots/Safety 15

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Sum of NO_OF_HC									
process_date	Oil Spill Training	PRE-RETIREMENT WORKSHOP	Process Invoices; ProCard reporting	Safety general office activities	Staffing	WC LABOR	Wellness Activities	Grand Total	
adjusted hrs	2	3	2	5	0	61	6	1905	
adjusted percentage of productive hrs	0.1%	0.2%	0.1%	0.3%	0.0%	3.2%	0.3%	100.0%	1904
	789	779	843	795		953	780		

	INCIDENT RESPONSE PLAN AND EXERCISE	Integrated Absence Management	Integrated Absence Mgmt / Case Mgmt	M15617 001 MECO ICB-WC	Maint Rel w/ Industry, Prof Assoc	Medical Consulting Services	Negotiations 2003
		16.00					
			31.00				
			30.00				
			37.20				1.00
3.00			37.00				
5.50			36.50				
2.50			38.00				
2.50			26.50				
1.00			36.50				
			6.00				
1.50			26.50		1.00		
3.00			30.00				
3.00			43.00				3.00
			29.50			1.00	
2.00			35.00				
2.00						28.50	
1.00			32.00		5.00		
			18.50			1.00	
			17.00				
	6.50		34.50			1.50	
3.00			36.50				
			37.00			3.00	
			30.00				
			33.00				
			33.00				
			38.50			2.00	
			29.00			5.00	
			26.50				
			14.50			15.50	
			8.00			6.00	
			19.50			3.00	
			28.00			3.00	
			7.00				
			33.50			2.00	
1.00			28.50			1.50	
			42.50				
			-8.50	3.00			
			33.00			1.00	
			31.00				
			30.00				
			31.00				
			36.00				
			14.00				
			26.50				
			25.00			9.00	
			29.50				
			33.50				7.00
			34.00				
			32.50				
			34.00				
			37.00				
			37.50			1.00	
			31.00				
			32.00				
			29.50				
			19.00				
30.00	6.50	16.00	1571.25	3.00	6.00	82.00	8.50
1.5%	0.3%	0.8%	~~79.5%~~ 62.97%	0.2%	0.3%	4.2%	~~0.4%~~ 0

2003 Actual Hours - JMarler

Sum of NO_OF_HO

process_date	Oil Spill Training	PRE-RETIREMENT WORKSHOP	Process Invoices; ProCard reporting	Safety general office activities	Staffing	WC LABOR	Wellness Activities	Grand Total
1/6/2003								16.00
1/13/2003					10.50			42.50
1/20/2003						1.00		41.00
1/27/2003						1.00		41.75
2/3/2003						1.00		42.00
2/10/2003								42.00
2/18/2003						2.00		42.50
2/24/2003						1.00	1.50	34.50
3/3/2003							4.50	43.00
3/10/2003								12.00
3/17/2003			1.00			2.00		33.50
3/24/2003						1.00		34.00
3/31/2003							3.00	80.00
4/7/2003							2.00	34.00
4/14/2003							2.00	40.00
4/21/2003				2.00		1.00		33.50
4/28/2003						2.00	1.00	42.00
5/1/2003				1.00			5.00	36.50
5/5/2003								17.00
5/12/2003								42.50
5/19/2003			1.00			1.00		42.50
5/27/2003								42.50
6/2/2003		3.00				2.00		35.00
6/9/2003						6.00	2.50	42.50
6/16/2003								34.00
6/23/2003								42.00
6/30/2003						6.00		42.50
7/7/2003							1.00	34.00
7/14/2003								42.50
7/21/2003								18.00
7/28/2003								35.00
8/1/2003								34.00
8/4/2003								8.50
8/11/2003							2.00	42.50
8/18/2003	2.50							35.00
8/25/2003								42.50
8/26/2003				1.00				-0.50
9/2/2003								34.00
9/9/2003								34.00
9/15/2003								26.00
9/22/2003								25.00
9/29/2003				1.00				33.00
10/6/2003								27.00
10/6/2003								25.50
10/10/2003							7.50	43.00
10/20/2003							2.50	34.00
10/27/2003								42.50
10/31/2003								34.00
11/10/2003							3.00	42.50
11/17/2003								34.00
11/24/2003						1.00		42.50
12/1/2003						34.00		34.00
12/8/2003							2.00	42.50
12/15/2003								40.50
12/22/2003								34.00
12/29/2003								29.50
1/2/2004								21.00
Grand Total	2.50	3.00	2.00	5.00	10.50	63.00	41.50	1975.25
Percentage of productive hrs	0.1%	0.2%	0.1%	0.3%	0.5%	3.2%	2.1%	100.0%

3.0%

Total	12	96	102	0	0	2	98	6	258	384	2	30	15	96	4,300	[illegible]	2,397 2,356	2,080	96	2080 277 276

2003 Actual Hours - POshiro

...of NO_OF_H0desc

process_date	Develop & Administer Business Plans	Ee Trng & Dev Needs; PDS Prep/Mtg	Empl Benefits Admin & General Exp	H01500 HELCO ICB-WC	HEI HTB - WC LABOR (TOOTS)	Integrated Absence Mgmt / Case Mgmt	M15817 001 MECO ICB-WC	Maint Rel w/ Industry, Prof Assoc	Maintain Rel w/ Legislature & Gov't	Negotiations 2003	Staffing	WC ISD DEVELOPMENT CHARGES / SOFTWARE	WC LABOR	WC Labor - Risk Management	Grand Total
adjusted hours	2.00	2.00	259.50	29.00	15.00	385.00	35.50	6.00	28.00	0.00	9.50	141.50	1136.00	20.00	2069.00
adjusted % of productive hrs	0.1%	0.1%	12.5%	1.4%	0.7%	18.6%	1.7%	0.3%	1.4%	0.0%	0.5%	6.8%	+9.5 54.9%	1.0%	100.0%
	700 ✓	785 ✓	776 ✓	953 ✓	953 ✓	780 ✓	953 ✓	749 ✓	745 ✓			953	1145.5 953	953	

953 PHE 1707

Vacation
2005
Feb
56 hrs
Oct.
36

2003 Actu[illegible]rs - POehiro

[illegible]n of NO_OF_H[illegible]desc

process_date	Develop & Administer Business Plans	Ee Trng & Dev Needs; PDS Prep/Mtg	Empl Benefits Admin & General Exp	H01500 HELCO ICB-WC	HTB - WC LABOR (TOOTS)	Integrated Abesnce Mgmt / Case Mgmt	M15817 001 MECO ICB-WC	Maint Rel w/ Industry, Prof Assoc	Maintain Rel w/ Legislature & Gov't	Negotiations 2003	Staffing	WC ISD DEVELOPMENT CHARGES / SOFTWARE	WC LABOR	WC Labor - Risk Management	Grand Total
1/6/2003													[illegible]		16.00
1/13/2003											8.00	3.00	32.00		48.50
1/20/2003			12.50										30.50		49.00
1/27/2003		2.00	7.00	4.00			3.00					2.00	[illegible]	5.00	43.00
2/3/2003			4.00	2.00		3.00	2.00		5.50	6.00		1.50	23.00		47.00
2/10/2003			6.50	1.00	1.00	6.00	1.00		3.00	2.00		2.00	21.50		44.00
2/18/2003			6.00	1.00		7.00	1.00		1.00	8.50			22.00		46.50
2/24/2003			3.00			3.00			2.00				12.00		20.00
3/3/2003			4.50			8.00			1.00				18.00		36.50
3/10/2003			6.00	1.00	0.50	6.00	1.00						20.00		46.00
3/17/2003			7.50			7.00							22.00		36.50
3/24/2003			2.00			13.00	2.00		4.00				18.00		45.50
3/31/2003			2.00			13.00						2.00	[illegible]		[illegible]
4/7/2003			5.00	1.00	1.00	12.50	1.00					1.50	13.00		35.00
4/14/2003			6.50			9.50							13.00		29.00
4/21/2003			4.50			9.50						2.50	17.00	2.00	35.50
4/28/2003			10.00	2.00		4.50	2.00					5.50	18.00	4.00	46.00
5/12/2003			4.00	1.00	0.50	4.00	1.00						24.50	1.00	36.50
5/19/2003			8.50			7.00						1.00	28.00		46.00
5/27/2003			6.00	1.00		8.00	3.00		4.00				24.00	1.00	44.50
6/2/2003				2.00	2.00	7.00	2.00						14.00	10.00	37.00
6/9/2003			7.00	1.00	1.00	13.50	1.00					1.50	24.00		49.00
6/16/2003			6.00			10.50						1.00	22.00		39.50
6/23/2003			8.00			11.00						1.00	28.00		48.00
6/30/2003	2.00		11.00			9.00							24.00		46.00
7/7/2003			8.00	2.00	1.00	7.00	1.00						17.00	1.00	37.00
7/14/2003			8.00			8.00						7.00	[illegible]	1.00	47.00
7/21/2003			6.00			[illegible]							[illegible]		44.50
7/28/2003			7.00			[illegible]						3.00	[illegible]		43.00
8/1/2003			6.50			9.00				1.50		3.00	17.00		39.00
8/4/2003			1.50							1.00		2.00	5.00		9.50
8/11/2003			6.00	1.00	1.00	8.00	1.00					7.50	22.00		46.50
8/18/2003			7.50	1.00	1.00	7.00	1.00					6.00	14.00		37.50
8/25/2003			1.50			6.00						6.00	12.00	2.50	27.00
9/2/2003			6.50	1.00		7.00	2.00					8.00	22.00		41.00
9/8/2003			3.00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				3.00	17.00	1.00	36.50
9/15/2003			4.00	[illegible]		[illegible]						4.00	21.00		44.50
9/22/2003			3.00			[illegible]						[illegible]	[illegible]		49.00
9/29/2003			4.00			[illegible]							[illegible]		[illegible]
10/1/2003				1.00		4.00	1.00						14.00		20.00
10/6/2003			1.50	2.50	1.00	4.00	2.00					1.50	15.00	1.00	28.50
10/10/2003			4.00	0.50		6.50							35.00		46.00
10/20/2003						8.50							27.50		36.00
10/27/2003			9.00			6.50						2.00	30.00		47.50
10/31/2003			8.00	1.00		8.00	2.00						28.00		47.00
11/10/2003			6.00	1.00	3.00	8.00	1.00						27.50		43.50
11/17/2003			8.00			[illegible]						2.00	21.00		37.00
11/24/2003			3.00			[illegible]							[illegible]		[illegible]
12/1/2003				1.00		6.00	1.50					2.50	17.00	1.00	29.00
12/8/2003													40.00		40.00
12/10/2003			5.00	1.00	1.00	8.00	1.00		5.50			1.50	-17.00		6.00
12/15/2003			1.00			6.50			1.00				10.00		18.50
12/22/2003			5.50			6.00			1.50				21.00	1.00	35.00
12/29/2003			1.00	1.00		4.50	1.00						10.00		17.50
1/2/2004				1.00		3.00	1.00						13.50		18.50
Grand Total	2.00	2.00	259.50	29.00	15.00	385.00	36.50	6.00	26.00	20.00	9.50	109.50	1136.00	32.00	2069.00
Percentage of productive hrs	0.1%	0.1%	12.5%	1.4%	0.7%	18.6%	1.7%	0.3%	1.4%	1.0%	0.5%	5.3%	54.9%	1.5%	100.0%

Rate Case

320

141.50

30.0

dget manager: 1b Resource Leveling Detail Code Blk(Mo) 3:21PM

	FY05	Jan 05	Feb 05	Mar 05	Apr 05	May 05	Jun 05	Jul 05	Aug 05	Sep 05	Oct 05	Nov 05	Dec 05
	0	0	0	0	0	0	0	0	0	0	0	0	0
	-258	-21	-22	-21	-22	-21	-22	-21	-22	-21	-22	-21	-22
	-384	-32	-32	-32	-32	-32	-32	-32	-32	-32	-32	-32	-32
	-2	-2	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	-1	-1	0	0	0	0	0	0	0	0	0	0	0
IAGEMENT - ...	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Renaissan...	0	0	0	0	0	0	0	0	0	0	0	0	0
	-15	-1	-1	-1	-2	-1	-1	-1	-2	-1	-1	-1	-2
	0	0	0	0	0	0	0	0	0	0	0	0	0
ector	-29	-2	-3	-2	-3	-2	-3	-2	-3	-2	-3	-2	-2
Director	0	0	0	0	0	0	0	0	0	0	0	0	0
ector	-36	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
Director	0	0	0	0	0	0	0	0	0	0	0	0	0
	-1,308	-109	-79	-159	-109	-109	-109	-109	-149	-139	-19	-109	-109
/ AP & HR	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	-277	-10	-51	-49	-10	0	-4	-8	-35	-32	-56	-12	-10
ilable Hours	2,080	168	160	184	168	176	176	168	184	176	168	176	176
lidays	-96	0	-8	-8	0	-8	-8	-8	-8	-8	-8	-16	-16
cation √80	-280	0 -40	0	0	0	0 -160	40 0	0	0	0	40 0	0	0
	-4	0	0	0	0	0	-4	0	0	0	0	0	0
	-18	0	-4	-3	-2	0	-1	-1	-1	-3	0	-2	-1
	-22	-2	-1	-1	-3	0	-2	-2	-2	-3	-2	-2	-2
√240	-220	-20	-20	-20	-20	20 0	-20	-20	-20	-20	-20	-20	-20
Materials Levs...	0	0	0	0	0	0	0	0	0	0	0	0	0
	-10	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
√1600	-1,500	146 -108	-127	-150	-141	146 0	77 -138	-135	-151	-140	96 -138	-134	-135
w/ AP & HR	0	0	0	0	0	0	0	0	0	0	0	0	0
	-10	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
	0	0	0	0	0	0	0	0	0	0	0	0	0
vailable Hours	2,080	168	160	184	168	176	176	168	184	176	168	176	176
olidays	-96	0	-8	-8	0	-8	-8	-8	-8	-8	-8	-16	-16
acation	-64	0	0	0	0	0	0	0	0	0	-40	0	-24
	0	0	0	0	0	0	0	0	0	0	0	0	0
	-19	-1	-1	-2	-1	-4	-2	-1	-1	-2	-1	-1	-2
	-240	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20
	-3	-3	0	0	0	0	0	0	0	0	0	0	0
	-2	0	-1	0	0	-1	0	0	0	0	0	0	0
	-11	-1	0	-1	-1	0	0	0	0	0	-8	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0

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Labor Input Sheet - NonProject
2005

Revised: 2/17/2004

Resp Area (RA) PPW
Labor Class I

Prepared by _____
Date _____

Dimension tab card								Rates tab card	Units tab card												
Line Item	RA	Act	Loc	Ind	Proj	EE	Labor Class	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Labor Supply:									*(enter employee count in "Units tab card")*												
Labor Supply	PPW	*Supply	*Supply	*Supply	*Supply	*Supply		Available Hours	1	1	1	1	1	1	1	1	1	1	1	1	[illegible]
Labor Demand:									*(enter hours in "Units tab card")*												
Holiday	PPW	098	PHE	ND		107		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Vacation	PPW	098	PHE	ND		107		[illegible]	40				160								[illegible]
Other NPW	PPW	098	PHE	ND		107		[illegible]													[illegible]
Workers Comp	PPW	098	PHE	ND		108		[illegible]													[illegible]
	PPW	753	PHE	NE	NPFZZZZZ	150		[illegible]						4							[illegible]
	PPW	776	PHE	NE	NPFZZZZZ	150		[illegible]		4	3	2		1	1	1	3		2	1	[illegible]
	PPW	777	PHE	NE	NPFZZZZZ	150		[illegible]	2	1	1	3		2	2	2	3	2	2	2	[illegible]
	PPW	953	PHE	NE	NPFZZZZZ	[illegible]		[illegible]	106	127	150 152	141 143	6 8	137 141	135 137	151 153	140 142	136 138	134 136	135 137	[illegible]
IAM	PPW	780	PHE	NE	NPFZZZZZ	150		[illegible]	20	20	20	20		20	20	20	20	20	20	20	[illegible]
	PPW					150		[illegible]													[illegible]
HR Suite Project	PPW	953	PHE	ND	Benefits04	150		[illegible]			1	1	1	1	1	1	1	1	1	1	[illegible]
HR Suite Project	PPW	953	PHE	NE	Benefits04	150		[illegible]			1	1	1	1	1	1	1	1	1	1	[illegible]
	PPW					150		[illegible]													[illegible]
	PPW					150		[illegible]													[illegible]
								Total NonProj/Pgm Demand	168	160	184	168	176	176	168	184	176	168	176	176	2,080
								Total Supply	168	160	184	168	176	176	168	184	176	168	176	176	2,080
Holidays - 2/21, 3/25, 5/30, 6/10, 7/4, 8/19, 9/5, 10/10, 11/11, 11/24, 12/23 (1/2) 12/26, 12/30 (1/2)									0	8	8	0	8	8	8	8	8	8	16	16	96
Available hours per employee									168	160	184	168	176	176	168	184	176	168	176	176	2080
								Demand minus Supply	0	0	0	0	0	0	0	0	0	0	0	0	0

NOTE: Total NonProject Demand hours may *NOT* equal Total Supply hours due to Project Demand hours (which are budgeted in the Project file)

Labor Input S[illegible]t - NonProject
2005

Resp Area (RA) PPW
Labor Class TC (MM)

Prepared by KHO
Date 2/7/2004

Dimension tab card								Rates tab card	Units tab card												
Line Item	RA	Act	Loc	Ind	Proj	EE	Labor Class	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Labor Supply:									*(enter employee count in "Units tab card")*												
Labor Supply	PPW	*Supply	*Supply	*Supply	*Supply	*Supply	TC	Available Hours	1	1	1	1	1	1	1	1	1	1	1	1	12
Labor Demand:									*(enter hours in "Units tab card")*												
Holiday	PPW	098	PHE	ND		107	TC	TC	0	8	8	0	8	8	8	8	8	8	16	16	96
Vacation	PPW	098	PHE	ND		107	TC	TC										40		24	64
Other NPW	PPW	098	PHE	ND		107	TC	TC													0
Workers Comp	PPW	098	PHE	ND		108	TC	TC													0
Dev & Admin Bus Plans	PPW	700	PHE	NE	NPFZZZZZ	150	TC	TC													0
Main Rel w/ Govt Agency	PPW	745	PHE	NE	NPFZZZZZ	150	TC	TC													0
Main Rel w/ Ind Profess	PPW	749	PHE	NE	NPFZZZZZ	150	TC	TC													0
EE Ben Admin/Gen	PPW	776	PHE	NE	NPFZZZZZ	150	TC	TC	1	1	2	1	4	2	1	1	2	1	1	2	19
IAM	PPW	780	PHE	NE	NPFZZZZZ	150	TC	TC	20	20	20	20	20	20	20	20	20	20	20	20	240
PDS Prep/Mtg	PPW	785	PHE	NE	NPFZZZZZ	150	TC	TC	3												3
Attend Training	PPW	789	PHE	NE	NPFZZZZZ	150	TC	TC		1			1								2
Attend Safety Training	PPW	797	PHE	NE	NPFZZZZZ	150	TC	TC	1		1	1						8			11
Workers' Comp	PPW	953	HEL	BE	NPFZZZZZ	150	TC	TC													0
Workers' Comp - TOOTS	PPW	953	HEI	BE	NPFZZZZZ	150	TC	TC													0
Workers' Comp	PPW	953	MAU	BE	NPFZZZZZ	150	TC	TC													0
Workers' Comp	PPW	953	PHE	NE	NPFZZZZZ	160	TC	TC	145	140	153	146	145	146	140	155	146	100	140	120	1,876
	PPW					150	TC	TC													0
								Total NonProj/Pgm Demand	170	170	184	168	178	176	169	184	176	177	177	182	2,111
								Total Supply	168	160	184	168	176	176	168	184	176	168	176	176	2,080

Holidays - 2/21, 3/25, 5/30, 6/10, 7/4, 8/19, 9/5, 10/10, 11/11, 11/24, 12/23 (1/2), 12/26, 12/30 (1/2)	0	8	8	0	8	8	8	8	8	8	16	16	96
Available hours per employee	168	160	184	168	176	176	168	184	176	168	176	176	2080
Demand minus Supply	2	10	0	0	2	0	1	0	0	9	1	6	31

NOTE: Total NonProject Demand hours may *NOT* equal Total Supply hours due to Project Demand hours (which are budgeted in the Project file)

2003 Actual Hours - MMinatoya

Sum of NO_OF_H desc											
date	Attend Safety Training	Attend Training	Develop & Administer Business Plans	Ee Trng & Dev Needs; PDS Prep/Mtg	Empl Benefits Admin & General Exp	INCIDENT RESPONSE PLAN AND EXERCISE	Integrated Absence Mgmt / Case Mgmt	MERIT SAFETY MEETINGS-Session 3	Strike Prep-Informational Meetings	WC LABOR	Grand Total
1/6/2003	[illegible]	[illegible]	[illegible]	3.00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.00	16.00
1/13/2003	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1/20/2003	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Harris, Russ

From: Morimatsu, Jeri
Sent: Thursday, December 23, 2004 10:30 AM
To: Harris, Russ
Subject: RE: Rate Case Information Needs - Safety Program Direct Labor

#16

+24 hours Implementor = Total 408 hrs

We estimated our labor (384 hours for teacher/coach) by looking at 2003 actuals & taking into consideration that we're planning for updates to the Substance Abuse Program (SAP) policy & Preventable Vehicle Accident (PVA) policy. I'm attaching the 2003 actuals for 795. Please let me know if you have any questions or need anything else. Thanks.

2003 Actual Hours.XLS (23 KB)

From: Harris, Russ
Sent: Monday, December 20, 2004 4:26 PM
To: Ishii, Alden; Fujii, Arvin; Oshiro, Pat; Morimatsu, Jeri; Iwanaga, Lorrie
Cc: Li, Susan; Kelilnoi, Willie
Subject: Rate Case Information Needs - Safety Program Direct Labor

925 INJURIES & DAMAGES	789 Attend Training	SSF	150	$16,494		$103,996 SSF
925 INJURIES & DAMAGES	795 Mg Safety Pgm & Trng	C&M	150	$93,055		$93,055 C&M
INJURIES & DAMAGES	795 Mg Safety Pgm & Trng	CID	150	0		
925 INJURIES & DAMAGES	795 Mg Safety Pgm & Trng	Comp & Ben	150	$460		$460 Comp & Ben
925 INJURIES & DAMAGES	795 Mg Safety Pgm & Trng	Corp Comm	150	0		

RIE	795 Mg Safety Pgm & Trng	Cust Svc	150	0	
AG					
RIE	795 Mg Safety Pgm & Trng	Engineering	150	0	
AG					
RIE	795 Mg Safety Pgm & Trng	Ind Rel	150	$12,347	$12,347 Ind Rel
AG					
RIE	795 Mg Safety Pgm & Trng	InfoTech	150	0	
AG					
RIE	795 Mg Safety Pgm & Trng	Legal	150	$5,382	$5,382 Legal
AG					
RIE	795 Mg Safety Pgm & Trng	MAFS	150	0	
AG					
RIE	795 Mg Safety Pgm & Trng	Production	150	0	
AG					
RIE	795 Mg Safety Pgm & Trng	SSF	150	$352,644	$352,644 SSF
AG					
RIE	795 Mg Safety Pgm & Trng	Supp Svcs	150	0	
AG					
RIE	795 Mg Safety Pgm & Trng	Sys Op	150	0	
AG					
RIE	795 Mg Safety Pgm & Trng	WFSD	150	$0	
AG					

#16

#16

Prepared by: J. Morimatsu
Date:

Units tab card									
May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
nter employee count in "Units tab card")									
1	1	1	1	1	1	1	1	12	
(enter hours in "Units tab card")									
8	8	8	8	8	8	16	16	96	
16	16	16	16	16	16			160	
								0	
								0	
1	1	1	1	1	1	1	1	12	
84	84	83	83	83	83	83	83	1,002	
2	2	2	2	2	2	2	2	24	
24	24	24	24	24	24	24	24	288	
[redacted]									✓
2	2	2	2	2	2	2	2	24	
	6		6		6		6	36	
3	3	3	3	3	3	3	3	36	
	1			1			1	4	
7	7	7	7	6	6	6	6	80	
	1		1		1		1	6	
1		1		1		1		6	
	1		1		1		1	6	
1	1	1	1	1	1	1	1	12	
2	173	181	172	179	172	178	163	171	2,080
3	176	176	168	184	176	168	176	176	2,080
0	8	8	8	8	8	8	16	16	96
8	176	176	168	184	176	168	176	176	2080

12/28/2004 - 9:55 AM

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#16

py: J. Morimatsu

Oct	Nov	Dec	Total
)			
1	1	1	12
8	16	16	96
10	10	10	120
			0
			0
1	1	1	12
146	146	146	1,760
2	2	2	24
[redacted]			
2	2	2	24
6		6	36
3	3	3	36
		1	4
6	6	6	80
	1		6
	1		6
192	196	201	2,300
168	176	176	2,080
8	16	16	96
168	176	176	2080

12/28/2004 10:28 AM

#16

Labor Input Sheet - NonProject
2005

Resp Area (RA) PI
Labor Class IMPLTR
(Jeri - 21022)

Prepared by: J. Morimatsu
Date:

Dimension tab card								Rates tab card	Units tab card												
Line Item	RA	Act	Loc	Ind	Proj	EE	Labor Class	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Labor Supply:									*(enter employee count in "Units tab card")*												
Labor Supply	PI	*Supply	*Supply	*Supply	*Supply	*Supply	IMPLTR	Available Hours	1	1	1	1	1	1	1	1	1	1	1	1	12
Labor Demand:									*(enter hours in "Units tab card")*												
Holiday	PI	098	PHE	ND		107	IMPLTR	IMPLTR	0	8	8	0	8	8	8	8	8	8	16	16	96
Vacation	PI	098	PHE	ND		107	IMPLTR	IMPLTR	10	10	10	10	10	10	10	10	10	10	10	10	120
Other NPW	PI	098	PHE	ND		107	IMPLTR	IMPLTR													0
Workers Comp	PI	098	PHE	ND		108	IMPLTR	IMPLTR													0
ADM	PI	765	PHE	NE	NPPZZZZZ	150	IMPLTR	IMPLTR	12	12	12	12	12	12	12	12	12	12	12	12	144
LABOR	PI	805	PHE	NE	NPPZZZZZ	150	IMPLTR	IMPLTR	124	108	112	109	109	104	86	82	109	106	116	115	1,280
WAGE	PI	775	PHE	NE	NPPZZZZZ	150	IMPLTR	IMPLTR	4	4	4	4	4	4	4	4	4	4	4	4	48
FORECAST	PI	701	PHE	NE	NPPZZZZZ	150	IMPLTR	IMPLTR			15	15	15	15	30	50	10	10			160
ABM	PI	721	PHE	NE	NPPZZZZZ	150	IMPLTR	IMPLTR	4	4	4	4	4	4	4	4	4	4	4	4	48
PURCHASING	PI	842	PHE	NE	NPPZZZZZ	150	IMPLTR	IMPLTR	1	1	1	1	1	1	1	1	1	1	1	1	12
ACCTS. PAYBABLE	PI	843	PHE	NE	NPPZZZZZ	150	IMPLTR	IMPLTR	1	1	1	1	1	1	1	1	1	1	1	1	12
TRADE Meetings	PI	749	PHE	NE	NPPZZZZZ	150	IMPLTR	IMPLTR	2	2	2	2	2	2	2	2	2	2	2	2	24
TRNG - Attend	PI	789	PHE	NE	NPPZZZZZ	150	IMPLTR	IMPLTR	3	3	3	3	3	3	3	3	3	3	3	3	36
TRNG - Attend Safety	PI	797	PHE	NE	NPPZZZZZ	150	IMPLTR	IMPLTR			1			1			1			1	4
HR Suite Software	PI					150	IMPLTR	IMPLTR	5	5	5	5	5	5	5	5	5	5	5	5	60
MECO - Labor	PI	805	PHE	NE	NPPZZZZZ	150	IMPLTR	IMPLTR			2			2			2				6
HELCO - Labor	PI	805	PHE	NE	NPPZZZZZ	150	IMPLTR	IMPLTR			2			2			2				6
								Total NonProj/Pgm Demand	168	160	184	168	176	176	168	184	176	168	176	176	2,080
								Total Supply	168	160	184	168	176	176	168	184	176	168	176	176	2,080
Holidays - 2/21, 3/25, 5/30, 6/10, 7/4, 8/19, 9/5, 10/10, 11/11, 11/24, 12/23 (1/2), 12/26, 12/30 (1/2)									0	8	8	0	8	8	8	8	8	8	16	16	96
Available hours per employee									168	160	184	168	176	176	168	184	176	168	176	176	2080

jm \forecast\2004 2005\2005 Labor Input Sheet xls

12/28/2004 - 10 28 AM

CA-IR-1
DOCKET NO. 04-0113
HECO T-14
ATTACHMENT 7
PAGE 5 OF 6

1706 - 2003 ACTUAL LABOR HOURS
Data as of 1/27/04

DESCRIPTION	COST CENTER	TOTAL HOURS
P Labor	PPI795PHENENPPZZZZZ	260.00
L PHYSICALS & TRAINING	PPI795PHENCNPDZZZZZ	8.50
M Safety Quality Comm (External Use)	PPI795PHENENPDZZZZZ	4.00
M Safety Quality Comm (External Use)	PPI795PHENENPDZZZZZ	1.00
L TRAINING	PPI795PHENENPDZZZZZ	32.00
	Total 795 hours	**305.50**

#16

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HECO T-14
ATTACHMENT 7
PAGE 6 OF 6

INTEROFFICE CORRESPONDENCE

Hawaiian Electric Co., Inc.

#19

'04 DEC 30 A9:58

HAWAIIAN ELECTRIC CO., INC.
INSURANCE & CLAIMS DIV.

December 29, 2004

To: Russ Harris
Director, Risk Management

From: Gail Smith
Facilities Planning Clerk

Subject: HECO Rate Case – Request for Information
NARUC ACCOUNT: 925 – A&G Operation

Per Patsy Nanbu's memo of December 21, attached are the responses required for Safety, Security & Facilities, SSF Admin Division (HA). Also attached are the supporting documents.

Should you have any questions concerning the attached information, please contact:

Jim Beavers, Manager
Joycelynn Chun, Secretary
SSF Administration
Safety, Security & Facilities Department
Phone: Jim 543-7848
JC: 543-7379

Mail Stop Code: WAG - HA

Thank you and Happy New Year!

GS:s
Attachment

cc: J. Beavers
J. Chun

· CA/IR
y, Security Facilities

PHA - SSF Admin

min-Facilities	B38	A & G Operation	925	Labor	NPFZZZZZ	795	PHE	150	15,359.20	Jim Beavers, Manager SSF	Yes SF000083	Wage rate increase assumptions for safety related work embedded in standard labor rates by Budgets	None			
			925	LABOR COSTS					15,359.20							

12/29/2004 *VIEW: Labor Hour by Activity

*Act #	Activity	*RA #	FY05
098	Payroll Cost Center	PHA	296
098	Payroll Cost Center	PHA	276
098	Payroll Cost Center	PHA	572
098			572
376	Disp & Mon Gen/Tr SCADA	PHA	0
376	Disp & Mon Gen/Tr SCADA	PHA	0
376	Disp & Mon Gen/Tr SCADA	PHA	0
376			0
700	Dev & Adm Business Plans	PHA	286
700	Dev & Adm Business Plans	PHA	286
700			286
701	Dev & Mg Forecasts	PHA	198
701	Dev & Mg Forecasts	PHA	198
701			198
720	Improve Bus Processes	PHA	24
720	Improve Bus Processes	PHA	24
720			24
747	Mg Environ Initiatives	PHA	24
747	Mg Environ Initiatives	PHA	24
747			24
753	Maint Rel-Community	PHA	8
753	Maint Rel-Community	PHA	8
753			8
777	Process Payroll	PHA	24
777	Process Payroll	PHA	24
777			24
795	Mg Safety Pgm & Trng	PHA	292
795	Mg Safety Pgm & Trng	PHA	292
795			292
843	Proc Invoices Oth Pmt	PHA	24
843	Proc Invoices Oth Pmt	PHA	24
843			24
930	Mg Const & Reconfig Fac	PHA	285
930	Mg Const & Reconfig Fac	PHA	285

12/29/2004 *ENTER: Direct RA Cost

*Act #	*Loc #	*Ind #	*EE #	Line Item	FY04	FY05
720	PHE	NE	150	Improve Business Processes (Mtgs-...	$684.46	$1,262.40
720	PHE	NE	150		$684.46	$1,262.40
720					$684.46	$1,262.40
747	PHE	NE	150	Native Species PAT	$684.46	$1,262.40
747	PHE	NE	150		$684.46	$1,262.40
747					$684.46	$1,262.40
749	PHE	NE	520	TRAVEL - MAINLAND	$2,500.00	$0.00
749	PHE	NE	520		$2,500.00	$0.00
749	PHE	NE	522	TRAVEL - INTERISLAND	$150.00	$300.00
749	PHE	NE	522		$150.00	$300.00
749					$2,650.00	$300.00
753	PHE	NE	150	Community Action Group/Apprise	$293.34	$420.80
753	PHE	NE	150		$293.34	$420.80
753					$293.34	$420.80
777	PHE	NE	150	Sec. -Payroll	$324.66	$569.28
777	PHE	NE	150		$324.66	$569.28
777					$324.66	$569.28
795	PHE	NE	150	SAFETY	$7,333.50	$15,359.20
795	PHE	NE	150		$7,333.50	$15,359.20
842	PHE	NE	205	PURCHASES (FA000430) 12/09/02 r...	$1,400.00	$2,400.00
842	PHE	NE	205		$1,400.00	$2,400.00
842					$1,400.00	$2,400.00

ımpensation Direct Labor

:ompensation payments as requested by Pat Oshiro and her group. I also receive
ıt guess based on time expected to be spent for the actual check preparation, mailing
green on the attached spreadsheet is my input sheet for what you are asking about.

ıumbers in each column represent.

#29

recipient named above. This message may contain information that is privileged, confidential, and exempt
ssage, you have received this message in error and are notified that any review, dissemination, distribution,
ne immediately by telephone and delete the original message. My number is (808) 543-7394. Thank you.

Labor Input Sheet - NonProject/NonProgram
2005

Resp Area (RA) AA
Labor Class I (Lou)

Prepared by L. Michinaka
Date 06/20/03

Dimension tab card								Rates tab card	Units tab card												
Line Item	RA	Act	Loc	Ind	Proj	EE	Labor Class	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Labor Supply:													*(enter employee count in "Units tab card")*								
[redacted]									168	160	184	168	176	176	168	184	176	168	176	176	2080
Labor Demand:													*(enter hours in "Units tab card")*								
[redacted]									0	8	8	0	8	8	8	8	8	8	16	16	96
[redacted]									16		32	48		8	32	40	8		8	16	208
HECO Rate Case	PAA	735	PHE	NE		150	I	I	10	5	10				10	10	10	10			65
Available Labor									152	152	134	120	168	160	128	136	160	160	152	144	1,766
Dev. & Manage Fcsts.	[redacted]	701	PHE	NE	NPAZZZZZ	[redacted]					4			4	40	4		4			56
Staff Meetings	[redacted]	720	PHE	NE	NPAZZZZZ	[redacted]			3	3	3	3	3	3	3	3	3	3	3	3	36
Assist w/Audit - External	[redacted]	761	PHE	NE	NPAZZZZZ	[redacted]			3			2			2			24		16	47
Payroll	[redacted]	777	PHE	NE	NPAZZZZZ	[redacted]			5	5	5	5	5	5	5	5	5	5	5	5	60
Administer Retirement Prgm	[redacted]	779	PHE	NE	NPAZZZZZ	[redacted]			2	2	2	2	2	2	2	2	2	2	2	2	24
Attend Training	[redacted]	789	PHE	NE	NPAZZZZZ	[redacted]			1	1			1	1			1	1		1	7
Fire Protection	[redacted]	796	PHE	NE	NPAZZZZZ	[redacted]									2				2		4
Accig. Policies & Procedures	[redacted]	815	PHE	NE	NPAZZZZZ	[redacted]			78	86	110	96	147	135	54	102	129	101	130	91	1,261
Admin. Tax Returns	[redacted]	819	PHE	NE	NPAZZZZZ	[redacted]			1	1	1	1	1	1	1	1	1	1	1	1	12
Prepare & File Fin. Rpts-Ext	[redacted]	836	PHE	NE	NPAZZZZZ	[redacted]			40	40										16	96
Order Materials & Supplies	[redacted]	842	PHE	NE	NPAZZZZZ	[redacted]			3	3	3	3	3	3	3	3	3	3	3	3	36
Process Invoices	[redacted]	843	PHE	NE	NPAZZZZZ	[redacted]			3	3	3	3	3	3	3	3	3	3	3	3	36
Process Workers Comp. Pm	PAA	953	PHE	NE	NPAZZZZZ	150	I	I	3	3	3	3	3	3	3	3	3	3	3	3	36
Total Supply									168	160	184	168	176	176	168	184	176	168	176	176	2060
Holidays - 1/1, 2/16, 4/9, 5/31, 6/11, 7/5, 8/20, 9/6, 10/11, 11/2, 11/11, 11/25, 12/23 (1/2), 12/24, 12/30 (1/2), 1									0	8	8	0	8	8	8	8	8	8	16	16	96
Available hours per employee									168	160	184	168	176	176	168	184	176	168	176	176	2060

NOTE: Total NonProject/NonProgram Demand hours may *NOT* equal Total Supply hours due to Project/Program Demand hours (which are budgeted in the Project model)

#29

S:\Management\Accounting\MacctBud\Forecast\Forms\2005 Labor Lou.xls

12/23/2004

CA-IR-1
DOCKET NO. 04-0113
HECO T-14
ATTACHMENT 9
PAGE 2 OF 3

r 15, 2004 3:28 PM
le; Iwanaga, Lorrie

n Needs - Workers Compensation Direct Labor

Comp & Ben	150	$112,432	$147,905	$156,530	$211,673	$148,984	$152,756	$143,504	$143,504
Corp Comm	150	0	$0	$141	$219	$0	0	0	$0
Cust Svc	150	$226	$98	$350	$356	$0	0	0	$0
Financial VP	150	$146	$71	$0	0	0	0	0	$0
Gen Acctg	150	$262	$997	$510	$531	$896	$1,113	$854	$854
Ind Rel	150	$18,673	$1,017	$2,058	$493	$0	$0	0	$0
InfoTech	150	$0	$713	$26	0	0	0	0	$0
Legal	150	$564	$376	$0	$2,142	$971	$4,641	$4,306	$4,306
MAFS	150	0	0	0	$0	$40	0	0	$0
Production	150	0	$0	$969	$51	$0	0	0	$0
RiskMgt	150	$2,245	$939	$4,602	$1,743	$2,467	$6,965	$7,028	$7,028
WFSD	150	$0	$727	$2,237	$2,849	$0	$0	$0	$0
									$155,692

pd to show how the direct labor was estimated. For Activity 953 Workers Comp Exp Element 150, you can see the costs in red for
e the person who calculated these projections and provide the worksheets indicating how the calculations were done. We need to
han December 27 to allow us to blend the responses into our consolidated response.
X4696

CA-IR-2

General Information Requests

For each of the HECO witnesses who sponsor test period budgeted non-labor direct expense amounts, please provide the following information:

a. Identify each employee involved in preparation of budgeted non-labor direct expense amounts included in the rate case test period budget and sponsored by the witness.

b. Provide complete copies of all calculations, spreadsheet files, "pencil" workpapers, surveys and other analyses performed by each of the employees identified in response to part (a), indicating the amounts by Department, RA, Activity and NARUC Account that such

calculations support.

c. For each budgeted non-labor amount in the test period forecast that exceeds $50,000, please describe the basis for determining the budgeted amount (for example, bid solicitation, price times quantity estimation, historical cost escalated, etc.)

d. For each item in your response to part (c), where specific quantities and prices were discretely forecasted, explain the basis for and source of the budgeted quantity inputs and budgeted prices for each such item. Provide complete copies of all studies, reports and other

c. See CA-IR-2, HECO T-14, Page 3, Line Items 34, 36, 39, 46, 51, 53-54, 59, 61, 63-65, 71, and 73-74

d. See item c. above

e. See item c. above

f. See item c. above

g. See item b. above

(Spreadsheet: RateCaseInfoSourcesCA-Irs.xls)

	RA	*EE #	FY05 Budget05	CA-IR-2 a. Budget Prep - Source	CA-IR-2 a. > $50,000? X
	PKI	205	$525	Willie Keliinoi	
h	PEZ	451	$33,900	Blane Murakami	
	PKI	501	$314,169	W. Keliinoi/M. Nakayama	X
	PKI	502	$4,645	W. Keliinoi/M. Nakayama	
	PKI	900	$1,993,104	W. Keliinoi/M. Nakayama	X
	PKI	905	($30,749)	Mark Nakayama	
			$2,315,594		
	PPI	201	$3,000	Jeri Morimatsu	
ion	PIB	201	$57,996	Karen Yim	X
ion	PIH	201	$1,500	Karen Yim	
ion	PIK	201	$2,160	Karen Yim	
ion	PIL	201	$3,600	Karen Yim	
ion	PIO	201	$300	Karen Yim	
ion	PIX	201	$6,900	Karen Yim	
vcs	PVA	201	$7,200	Mark Sterlacci	
	PFS	205	$72,840	Alden Ishii	X
	PFS	205	$45,650	Alden Ishii	
t	PKI	205	$735	Willie Keliinoi	
	PFS	205	$2,400	Alden Ishii	
t	PKI	205	$140	Willie Keliinoi	
	PFS	301	$127,920	Alden Ishii	X
t	PKI	301	$1,260	Willie Keliinoi	
h	PEZ	451	$80,412	Blane Murakami	X
h	PEZ	451	$99,216	Blane Murakami	X
h	PEZ	451	$42,240	Blane Murakami	
	PFS	501	$7,500	Alden Ishii	
& Be	PFB	501	$3,000	Pat Oshiro/Karen Ho	
	PPI	501	$29,500	Jeri Morimatsu	
	PFS	501	$225,340	Alden Ishii	X
	PFS	501	$22,000	Alden Ishii	
t	PKI	501	$169,006	Willie Keliinoi	X
& Be	PPW	501	$7,164	Pat Oshiro/Karen Ho	
it	PKI	501	$145,504	Willie Keliinoi	X
it	PKI	502	$266,292	Mark Nakayama	X
it	PKI	509	$696,408	Mark Nakayama	X
	PFS	515	$480	Alden Ishii	
	PFS	515	$120	Alden Ishii	
	PFS	516	$480	Alden Ishii	
	PFS	520	$3,000	Alden Ishii	
	PFS	521	$504	Alden Ishii	
& Be	PPW	530	$1,156,191	Pat Oshiro/Lori Okazaki	X
	PFS	900	$14,400	Alden Ishii	
it	PKI	900	$1,279,843	W. Keliinoi/M. Nakayama	X
it	PKI	900	$259,432	Willie Keliinoi	X
ch	PEP	901	$9,645	Blane Murakami	
			$4,851,278		

(Spreadsheet: RateCaseInfoSourcesCA-Irs.xls)

ments

				CA-IR-2 a.	CA-IR-2 a.
ept	**RA**	***EE #**	**FY05 Budget05**	**Budget Prep - Source**	**> $50,000? X**
liskMgt	PKI	205	$525	Willie Keliinoi	
liskMgt	PKI	501	$314,169	W. Keliinoi/M. Nakayama	X
liskMgt	PKI	502	$4,645	W. Keliinoi/M. Nakayama	
liskMgt	PKI	900	$1,993,104	W. Keliinoi/M. Nakayama	X
liskMgt	PKI	905	($30,749)	Mark Nakayama	
liskMgt	PKI	205	$735	Willie Keliinoi	
liskMgt	PKI	205	$140	Willie Keliinoi	
liskMgt	PKI	301	$1,260	Willie Keliinoi	
liskMgt	PKI	501	$169,006	Willie Keliinoi	X
liskMgt	PKI	501	$145,504	Willie Keliinoi	X
liskMgt	PKI	502	$266,292	Mark Nakayama	X
liskMgt	PKI	509	$696,408	Mark Nakayama	X
liskMgt	PKI	900	$1,279,843	W. Keliinoi/M. Nakayama	X
liskMgt	PKI	900	$259,432	Willie Keliinoi	X
nfoTech	PEZ	451	$33,900	Blane Murakami	
nfoTech	PEZ	451	$80,412	Blane Murakami	X
nfoTech	PEZ	451	$99,216	Blane Murakami	X
nfoTech	PEZ	451	$42,240	Blane Murakami	
nfoTech	PEP	901	$9,645	Blane Murakami	
nd Rel	PPI	201	$3,000	Jeri Morimatsu	
nd Rel	PPI	501	$29,500	Jeri Morimatsu	
Production	PIB	201	$57,996	Karen Yim	X
Production	PIH	201	$1,500	Karen Yim	
Production	PIK	201	$2,160	Karen Yim	
Production	PIL	201	$3,600	Karen Yim	
Production	PIO	201	$300	Karen Yim	
Production	PIX	201	$6,900	Karen Yim	
Supp Svcs	PVA	201	$7,200	Mark Sterlacci	
SSF	PFS	205	$72,840	Alden Ishii	X
SSF	PFS	205	$45,650	Alden Ishii	
SSF	PFS	205	$2,400	Alden Ishii	
SSF	PFS	301	$127,920	Alden Ishii	X
SSF	PFS	501	$7,500	Alden Ishii	
SSF	PFS	501	$225,340	Alden Ishii	X
SSF	PFS	501	$22,000	Alden Ishii	
SSF	PFS	515	$480	Alden Ishii	
SSF	PFS	515	$120	Alden Ishii	
SSF	PFS	516	$480	Alden Ishii	
SSF	PFS	520	$3,000	Alden Ishii	
SSF	PFS	521	$504	Alden Ishii	
SSF	PFS	900	$14,400	Alden Ishii	
Comp & Be	PFB	501	$3,000	Pat Oshiro/Karen Ho	
Comp & Be	PPW	501	$7,164	Pat Oshiro/Karen Ho	
Comp & Be	PPW	530	$1,156,191	Pat Oshiro/Lori Okazaki	X
			$2,315,594		
			$4,851,278		

CA-IR-2

General Information Requests

For each of the HECO witnesses who sponsor test period budgeted non-labor direct expense amounts, please provide the following information:

a. Identify each employee involved in preparation of budgeted non-labor direct expense amounts included in the rate case test period budget and sponsored by the witness.

b. Provide complete copies of all calculations, spreadsheet files, "pencil" workpapers, surveys and other analyses performed by each of the employees identified in response to part (a), indicating the amounts by Department, RA, Activity and NARUC Account that such calculations support.

c. For each budgeted non-labor amount in the test period forecast that exceeds $50,000, please describe the basis for determining the budgeted amount (for example, bid solicitation, price times quantity estimation, historical cost escalated, etc.)

d. For each item in your response to part (c), where specific quantities and prices were discretely forecasted, explain the basis for and source of the budgeted quantity inputs and budgeted prices for each such item. Provide complete copies of all studies, reports and other documents that were relied upon.

e. For each item in your response to part (c) where historical costs were escalated, provide all historical cost information that was considered and explain how such data was evaluated and escalated to derive test year proposed levels.

f. For each item in your response to part (c) where a bid solicitation or other special analysis was conducted, explain what was done and provide complete copies of all supporting reports, bid solicitations, proposal, analyses, workpapers and other documents associated with such efforts.

g. Provide complete copies of all other information required to completely support and document the test year projected expense levels being proposed by the Company, including general assumptions and forecasting instructions that were employed.

HECO Response:

a. William K. Keliinoi – Insurance Administrator

   Mark Nakayama – Claims Administrator

b. See Attached

c. The Liability and Property Insurance Premium forecast was determined by obtaining the

total estimated renewal cost of each line of coverage from our broker, Marsh (see work paper titled "Marsh P&CFrcst"). HECO's share of the premium for each line of coverage was estimated by applying the latest actual premium allocation we have on file (see work paper titled "02-18-2004PremAllocation"). The premiums were then annualized (see work paper titled "HECO Premiums – Annualized") and input into the forecasting system to the appropriate NARUC account -- 925 or 924.

The Property Losses were projected as stated in HECO T-14, DOCKET NO. 04-0113, Page 13 thru 15 of 33, Line 18 -25, 1-25 and 1-2. The Liability Losses were projected as stated in HECO T-14, DOCKET NO. 04-0113, Page 30 of 33, Line 15 -25. The total for each line number is:

1. Line 34 (NARUC 924) $314,169: $20,349 (Cargo/Hull Premiums) + $293,820 (Losses).
2. Line 36 (NARUC 924) $1,993,104: Property and Boiler & Machinery Premiums.
3. Line 61 (NARUC 925) $169.006: Fiduciary/Crime/Auto & Misc. Bonds/Protection & Indemnity Premiums. Also includes $200 for miscellaneous costs (cell phone).
4. Line 63 (NARUC 925) $145,504: Workers' Compensation Special Fund Assessment.
5. Line 73 (NARUC 925) $1,279,843: $1,272,449 (Liability Premiums) + $7,392 (Liability Reserves).
6. Line 74 (NARUC 925) $259,432: Workers' Compensation Liability Premium.

d. Renewal cost estimates provided by Marsh are attached and labeled "MarshP&CFrcst". Copies of the Handy Whitman Index and Consumer Price Index (CPI) are attached as

e. See attached

f. Not Applicable

g. See attached.

Premium Calculation Details

02-18-2004Allocation%

Line of coverage	HECO	TOTAL
D&O	181,732.31	2,022,182.00
	8.99%	100%
Fiduciary	66,790.28	127,973.44
	52.19%	100%
SR	5,787.45	15,115.45
	38.29%	100%
Auto Bond	3,623.97	4,996.92
	72.52%	100%
GL	825,930.76	1,412,080.17
	58.49%	100%
XWC	164,026.70	268,040.89
	61.19%	100%
Prop w/o ics	1,351,159.39	2,188,864.43
	61.73%	100%
BM w/o ics	508,597.44	769,842.42
	66.07%	100%
Crime	77,413.42	386,905.20
	20.01%	100%
P&I	3,176.25	3,176.25
	100.00%	100%
Hull & Machinery	457.2	457.20
	100.00%	100%
Inland/Ocean	6,000.00	50,000.00
	12.00%	100%
Bankers Prof	0.00	65,776.00
	0.00%	100%
Mrtg Imprmnt/E&O	0.00	33,497.60
	0.00%	100%
Ins Agents E&O	0.00	26,398.00
	0.00%	100%
XS Ins Agents E&O	0.00	0.00
	#DIV/0!	#DIV/0!
Frc'd Placed	0.00	16,748.88
	0.00%	100%
Lenders Protection	0	0.00
	#DIV/0!	#DIV/0!
Mtg Brokers Bond	0	0.00
	#DIV/0!	#DIV/0!
Property - ICS	1,487.50	3,551.24
	42.00%	100%
BIA Ins Agt E&O	0	124,614.00
	0.00%	100%
BIA XS Ins Agt E&O	0	52,500.00
	0.00%	100%

WC Assessment
From W/C Calcula

2004	119,807	207,190
2005	144,104	248,521

Marsh P&CFrcst

2/15/2004

HEI Forecast CORPORATE TOTAL	Renewal Date	11/1/02-03 2003 Act / Fcst Purchase Price	% inc	11/1/03-04 2004Forecast Purchase Price	% inc	11/1/04-05 2005 Forecast Purchase Price	
Cas/Prop							
D&O-1	1-Feb	$ 30,000.00	2453.33%	$ 766,000.00	15.00%	$ 880,900.00	
D&O-2	1-Feb	$ -	#DIV/0!	$ -	#DIV/0!	$ -	
D&O-3	1-Feb	$ 27,707.25	3260.79%	$ 931,182.00	15.00%	$ 1,070,859.30	
D&O-4	1-Feb	$ 5,000.00	6400.00%	$ 325,000.00	15.00%	$ 373,750.00	2,325,509.30
Fiduc-1	1-Feb	$ 86,947.75	47.27%	$ 128,044.20	14.04%	$ 146,022.32	
S/R	1-Feb	$ -	#DIV/0!	$ 15,120.00	-100.00%	$ -	
Crime	1-Feb	$ 351,919.60	9.96%	$ 386,965.91	9.48%	$ 423,654.63	
Feb subtotal		$ 501,574.60	408.86%	$ 2,552,312.11	13.43%	$ 2,895,186.24	
GL-1	1-Jun	$ 1,079,378.76	14.83%	$ 1,239,415.37	10.93%	$ 1,374,824.14	
GL-2	1-Jun	$ 259,429.78	76.88%	$ 458,876.85	16.69%	$ 535,450.60	1,910,274.74
XWC-1	1-Jun	$ 225,769.95	26.17%	$ 284,853.44	17.98%	$ 336,059.13	
XWC-2	1-Jun	$ 42,290.72	100.00%	$ 84,581.44	50.00%	$ 126,872.16	$ 462,931.29
June subtotal		$ 1,606,867.21	26.68%	$ 2,067,727.19	14.77%	$ 2,373,206.03	
Property	1-Sep	$ 2,103,926.00	4.57%	$ 2,200,052.14	5.20%	$ 2,314,527.60	
B&M	1-Sep	$ 748,697.00	4.51%	$ 782,491.66	5.23%	$ 823,411.37	
ProVision	1-Sep	$ -	#DIV/0!	$ -	#DIV/0!	$ -	
Sep subtotal		$ 2,852,623.00	4.55%	$ 2,982,543.81	5.21%	$ 3,137,938.97	
Provision Workers' Comp	1-May	$ -	#DIV/0!	$ -	#DIV/0!	$ -	
PECS Workers' Comp	23-Dec	$ 7,328.00	50.81%	$ 11,051.00	10.00%	$ 12,156.10	
Work Comp subtotal		$ 7,328.00	50.81%	$ 11,051.00	10.00%	$ 12,156.10	
Installation Floater	9-Apr	$ 14,476.20	15.00%	$ 15,200.01	15.00%	$ 15,960.01	
Protection & Indemnity	10-Nov	$ 3,493.87	5.00%	$ 3,668.56	-4.55%	$ 3,501.82	
Hull & Machinery	10-Nov	$ 525.78	5.00%	$ 552.07	-8.70%	$ 504.06	
Inland/Ocean Cargo	1-Dec	$ 172,500.00	5.00%	$ 181,125.00	-8.70%	$ 165,375.00	
Marine subtotal		$ 190,995.85	5.00%	$ 200,545.64	-7.58%	$ 185,340.89	
Cas/Prop subtotal		$ 5,159,388.66	51.46%	$ 7,814,179.75	10.11%	$ 8,603,828.23	
Auto Self-Ins. Bond	34789	$ 5,000.00	0.00%	$ 5,000.00	0.00%	$ 5,000.00	
Misc Bonds	various	$ 9,216.00	0.00%	$ 9,216.00	0.00%	$ 9,216.00	
USL&H Bond	33420	$ 2,000.00	0.00%	$ 2,000.00	0.00%	$ 2,000.00	
Misc Bonds subtotal		$ 16,216.00	0.00%	$ 16,216.00	0.00%	$ 16,216.00	
Total		$ 5,175,604.66	51.29%	$ 7,830,395.75	10.08%	$ 8,620,044.23	

HEI Forecast Non-Rate Case & Misc	Renewal Date	2001 Act / Fcst Purchase Price	% inc	2002 Forecast Purchase Price	% inc	2003 Forecast Purchase Price
Property B&M						
Property-ICS	1-Sep	$ 3,537.00	4.52%	$ 3,696.70	4.98%	$ 3,880.91
B&M-ICS	1-Sep	$ -	#DIV/0!	$ -	#DIV/0!	$ -
ICS subtotal		$ 3,537.00	4.52%	$ 3,696.70	4.98%	$ 3,880.91
Prop-Mahakea	1-Sep	$ 102.00	4.36%	$ 106.45	5.00%	$ 111.77
B&M-Mahakea	33482	$ -	#DIV/0!	$ -	#DIV/0!	$ -
Mahakea subtotal		$ 102.00	4.36%	$ 106.45	5.00%	$ 111.77
Prop-Hale Kekela	1-Sep	$ 630.00	4.53%	$ 658.55	5.00%	$ 691.48
B&M-Hale Kekela	33482	$ -	#DIV/0!	$ -	#DIV/0!	$ -
Hale Kekela subtotal		$ 630.00	4.53%	$ 658.55	5.00%	$ 691.48
Total - Non Rate & Misc		$ 4,269.00	4.51%	$ 4,461.70	4.99%	$ 4,684.16
ASB only coverages						
Lenders Prot	1-Feb	$ -	#DIV/0!	$ -	#DIV/0!	$ -
Ins Agt E&O	28-May	$ -	#DIV/0!	$ -	#DIV/0!	$ -
Excess Ins Agt E&O	28-May	$ -	#DIV/0!	$ -	#DIV/0!	$ -
Mtg Prot/E&O	26-May	$ 40,697.60	20.00%	$ 48,837.12	20.00%	$ 58,604.54
Mtg Brkrs Bond	14-Oct	$ -	#DIV/0!	$ -	#DIV/0!	$ -
Bankers Professional Liab.	15-Feb	$ 89,881.39	368.82%	$ 421,382.38	15.00%	$ 484,589.73
BIA Ins Agt E&O	30-Nov	$ 99,808.00	24.85%	$ 124,614.00	15.00%	$ 143,306.10
BIA Excess Ins Agt E&O	30-Nov	$ 28,970.19	89.70%	$ 54,957.00	19.80%	$ 65,727.27
Comm'l Fcd Place	33595	$ 19,148.88	20.00%	$ 22,978.66	20.00%	$ 27,574.39
Total - ASB		$ 278,507.06	141.56%	$ 672,769.15	15.91%	$ 779,802.03
TOTAL - All Coverages		$ 5,458,380.72	55.86%	$ 8,507,626.60	10.54%	$ 9,404,530.42
Outside of Contract						
Property Engineering Fee	1-Sep	$ 70,000.00	10.00%	$ 77,000.00	10.00%	$ 84,700.00
B&M Engineering Fee	1-Sep	$ 55,000.00	0.00%	$ 55,000.00	0.00%	$ 55,000.00
Total - Outside		125,000.00	5.60%	132,000.00	5.83%	139,700.00

HECO Premiums-Annualized

	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05	Total
82	149,336	3,626	-	-	160	-	-	-	-	3,502	-	168,806
27	100,200	100,200	100,200	100,200	110,532	110,532	110,532	110,532	110,532	110,532	110,532	1,272,449
	-	-	-	-	-	-	-	-	-	504	19,845	20,349
46	163,246	163,246	163,246	163,246	163,246	163,246	163,246	171,784	171,784	171,784	171,784	1,993,106
	-	-	-	-	-	1,400	-	-	-	-	144,104	145,504
38	18,838	18,838	18,838	18,838	23,606	23,606	23,606	23,606	23,606	23,606	23,606	259,430
94	431,620	285,910	282,284	282,284	297,544	298,784	297,384	305,922	305,922	309,928	469,871	3,859,644

94	431,620	285,910	282,284	282,284	297,544	298,784	297,384	305,922	305,922	309,928	469,871	3,859,644

Annualized Purchase Price For Policies Beginning in 2005

	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05	Total
50	17,422	17,422	17,422	17,422	17,422	17,422	17,422	17,422	17,422	17,422	17,422	206,791
69	69,658	-	-	-	-	-	-	-	-	-	-	75,427
53	77,709	-	-	-	-	-	-	-	-	-	-	84,161
61	1,769	-	-	-	-	-	-	-	-	-	-	1,930
78	82,778	82,778	82,778	82,778	93,110	93,110	93,110	93,110	93,110	93,110	93,110	1,065,658
38	18,838	18,838	18,838	18,838	23,606	23,606	23,606	23,606	23,606	23,606	23,606	259,430
35	117,135	117,135	117,135	117,135	117,135	117,135	117,135	123,420	123,420	123,420	123,420	1,430,784
11	46,111	46,111	46,111	46,111	46,111	46,111	46,111	48,364	48,364	48,364	48,364	562,343
94	431,620	282,284	282,284	282,284	297,384	297,384	297,384	305,922	305,922	305,922	305,922	3,686,503
	-	3,626	-	-	-	-	-	-	-	-	-	3,626
	-	-	-	-	160	-	-	-	-	-	-	160
	-	3,626	-	-	160	-	-	-	-	-	-	3,786
	-	-	-	-	-	-	-	-	-	-	144,104	144,104
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	1,400	-	-	-	-	-	1,400
	-	-	-	-	-	1,400	-	-	-	-	144,104	145,504
	-	-	-	-	-	-	-	-	-	3,502	-	3,502
	-	-	-	-	-	-	-	-	-	504	-	504
	-	-	-	-	-	-	-	-	-	-	19,845	19,845
	-	-	-	-	-	-	-	-	-	4,006	19,845	23,851
	-	-	-	-	-	-	-	1,630	-	-	-	1,630
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	1,630	-	-	-	1,630
	-	-	-	-	-	-	-	112	-	-	-	112
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	[redacted]	-	-	-	112
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	1,742	-	-	-	1,742
194	431,620	285,910	282,284	282,284	297,544	298,784	297,384	305,922	305,922	309,928	469,871	3,859,644

PKI 951 PHE NN NPKZZZZZ 501
[redacted] PKI 951 MAH NN NPKZZZZZ 501

Harris, Russ

From: Keliinoi, Willie
Sent: Tuesday, June 08, 2004 3:44 PM
To: Okazaki, Lori
Cc: Harris, Russ; Nakayama, Mark
Subject: 2004/2005 Property Activity Revisions

Lori,

Please make the following changes to our Pillar Files for 2004 and 2005:

PKI 951 PHE NE NPKZZZZZ 501 (Property Claims) - the 2004 monthly amount should be $23,488.17/month and 2005 should be $24,485/month. 293,820

PKI 951 PHE NE NPKZZZZZ 502 (Property Legal) - the 2004 monthly amount should be $371.25/month and 2005 should be $387.08/month. 4,645

905?

PKI 951 PHE NE NPKZZZZZ 509 (Property Damage Bad Debt) - the 2004 monthly amount should be ($2,458.17) /month and 2005 should be ($2,562.42) /month. 30,749 ✓

Please call me if you have any questions.

Willie Keliinoi
Insurance Administrator

293,820

Claims EE

Prem

Rate Case

Property Losses Forecast w/ CPI & Handy/Whitman

Property

The annual recorded property costs from 1996 through Jan 2004 (97 months) were brought forward to 2003 dollars by using the Consumer Price Index for All Urban Consumers and the Handy-Whitman Index, Pacific Region

2005 UPI

FEB 02 '04 03:28PM

Post-it™ brand fax transmittal memo 7571 | # of pages ▸ 1

To: Mark Nakamura | From: DBEDT
Co. | Co. Library
Dept. | Phone # 586-2424
Fax # 543-3-33 | Fax #

ono 415-975-4567 Note: To receive
DEMAND Code 9255. To request
ON-DEMAND Code 9256

FAX-ON-DEMAND CODE 9225

All Urban Consumers (CPI-U)

AUG	SEPT	OCT	NOV	DEC	ANNUAL AVERAGE
97.9		100.0		98.0	97.2
99.3		100.4		101.1	99.3
103.9		104.4		105.3	103.5
106.9		107.4		108.4	106.8
109.5		109.8		110.9	109.4

85 to Feb. 1986 (in this example 2.9 percent).

1.4		0.4		3.2	2.2
4.8		4.0		4.2	4.2
2.9		2.9		2.9	3.2
2.4		2.2		2.3	2.4

OVER-THE-YEAR PERCENT CHANGE

EAR	1st Half	2nd Half	ANNUAL AVERAGE
984			
985	3.7	2.9	3.2
986	2.4	2.3	2.4
987	4.0	6.0	5.0
988	6.0	5.9	5.9
989	5.2	6.2	5.8
990	7.2	7.4	7.3
991	6.3	5.9	7.2
992	4.8	4.9	4.8
993	3.1	3.3	3.2
994	3.0	2.5	2.7
95	2.1	2.2	2.2
96	2.2	0.9	1.6
97	0.9	0.5	0.7
98	-0.1	-0.5	-0.2
99	0.4	1.6	1.0
00	1.9	1.7	1.7
01	1.3	1.1	1.2
02	1.1	1.0	1.1
03	1.7		

E-0

Handy / Whitman

COST TRENDS OF ELECTRIC UTILITY CONSTRUCTION

PACIFIC REGION (1973=100)

Line	CONSTRUCTION AND EQUIPMENT	FERC	COST INDEX NUMBERS 1999 Jan. 1	1999 Jul. 1	2000 Jan. 1	2000 Jul. 1	2001 Jan. 1	2001 Jul. 1	2002 Jan. 1	2002 Jul. 1	2003 Jan. 1	2003 Jul. 1	2004 Jan. 1	2004 Jul. 1	2005 Jan. 1	2005 Jul. 1
1	Total Plant-All Steam Generation		366	365	369	382	387	386	398	403	412	410				
2	Total Plant-All Steam & Nuclear Gen.		365	364	368	382	386	386	398	403	411	410				
3	Total Plant-All Steam & Hydro Gen.		359	357	361	374	378	378	389	393	401	400				
4																
5	**Steam Production Plant**															
6	Total Steam Production Plant		388	391	397	414	419	416	424	434	445	441				
7	Structures & Improvements-Indoor	311	347	346	351	369	374	375	382	391	397	392				
8	Structures & Improvements-Semi-Outdoor	311	338	341	350	355	358	363	367	369	372	372				
9	Boiler Plant Equipment-Coal Fired	312	404	406	410	430	434	435	441	453	457	450				
10	Boiler Plant Equipment-Gas Fired	312	-	-	-	-	-	-	-	-	-	-				
11	Boiler Plant Piping Installed		352	350	348	358	362	361	368	375	381	376				
12	Turbogenerator Units	314	369	373	383	396	400	389	399	409	431	429				
13	Accessory Electrical Equipment	315	421	428	434	461	472	472	493	511	522	518				
14	Misc. Power Plant Equipment	316	416	420	426	442	445	446	455	464	469	463				
15																
16	**Nuclear Production Plant**															
17	Total Nuclear Production Plant		368	372	377	392	397	395	405	414	424	422				
18	Structures & Improvements	321	327	331	334	349	351	354	359	369	373	369				
19	Reactor Plant Equipment	322	361	361	365	377	380	380	387	394	399	399				
20																
21	**Hydro Production Plant**															
22	Total Hydraulic Production Plant		333	337	342	346	349	349	354	356	359	361				
23	Structures & Improvements	331	347	346	351	369	374	375	382	391	397	392				
24	Reservoirs, Dams & Waterways	332	319	323	327	330	333	336	339	342	344	346				
25	Water Wheels, Turbines & Generators	333	382	386	395	396	400	386	398	392	399	405				
26																
27	**Other Production Plant**															
28	Total Other Production Plant		387	390	396	421	427	402	409	420	427	428				
29	Fuel Holders, Producers & Accessories	342	374	370	372	383	384	386	391	399	404	403				
30	Gas Turbogenerators	344	398	401	408	394	401	408	415	426	433	435				
31																
32	**Transmission Plant**															
33	Total Transmission Plant		376	369	373	395	398	401	411	411	415	413				
34	Station Equipment	353	384	388	391	415	419	421	429	434	438	432				
35	Towers & Fixtures	354	353	354	365	368	373	377	384	385	388	389				
36	Poles & Fixtures	355	418	419	413	422	425	432	450	448	454	456				
37	Overhead Conductors & Devices	356	389	354	356	398	399	403	416	406	411	412				
38	Underground Conduit	357	354	346	348	355	358	360	374	381	390	389				
39	Underground Conductors & Devices	358	453	463	453	458	468	447	462	466	474	475				
40																
41	**Distribution Plant**															
42	Total Distribution Plant		339	336	338	346	350	351	366	369	376	378				
43	Station Equipment	362	374	375	377	379	382	383	391	383	388	387				
44	Poles, Towers & Fixtures	364	390	391	391	398	400	403	420	426	434	437				
45	Overhead Conductors & Devices	365	393	377	381	410	413	416	438	437	449	451				
46	Underground Conduit	366	343	347	353	356	361	362	377	389	397	394				
47	Underground Conductors & Devices	367	325	329	326	335	342	327	342	343	347	349				
48	Line Transformers	368	234	228	229	231	234	238	247	250	252	257				
49	Pad Mounted Transformers	368	329	329	330	332	333	351	357	365	362	362				
50	Services-Overhead	369	332	330	334	343	345	343	366	363	375	375				
51	Services-Underground	369	238	236	243	252	253	248	259	265	269	270				
52	Meters Installed	370	226	212	208	210	222	237	263	275	287	287				
53	Street Lighting-Overhead	373	402	402	405	410	415	419	435	450	474	478				
54	Mast Arms & Luminaires Installed	373	413	413	413	419	423	424	438	440	445	451				
55	Street Lighting-Underground	373	404	405	409	414	419	424	439	459	489	492				
56																

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COST TRENDS OF ELECTRIC UTILITY CONSTRUCTION

Handy/Whitman

PACIFIC REGION (1973=100)

Line	CONSTRUCTION AND EQUIPMENT	FERC	COST INDEX NUMBERS													
			1992		1993		1994		1995		1996		1997		1998	
			Jan. 1	Jul. 1	Jan. 1	Jul. 1	Jan. 1	Jul. 1	Jan. 1	Jul. 1	Jan. 1	Jul. 1	Jan. 1	Jul. 1	Jan. 1	Jul. 1
1	Total Plant-All Steam Generation		306	309	319	320	326	331	339	345	348	348	352	355	361	363
2	Total Plant-All Steam & Nuclear Gen.		305	309	318	320	326	331	339	344	347	348	352	354	360	362
3	Total Plant-All Steam & Hydro Gen.		299	303	312	314	319	325	332	337	340	341	345	348	354	356
4																
5	**Steam Production Plant**															
6	Total Steam Production Plant		323	324	333	338	347	350	357	364	366	368	376	378	382	385
7	Structures & Improvements-Indoor	311	279	284	293	299	304	313	315	321	323	325	329	333	336	339
8	Structures & Improvements-Semi-Outdoor	311	266	273	279	286	288	306	307	310	316	321	325	330	330	334
9	Boiler Plant Equipment-Coal Fired	312	342	343	353	359	365	367	373	379	383	384	390	393	396	399
10	Boiler Plant Equipment-Gas Fired	312	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Boiler Plant Piping Installed		307	300	310	315	319	316	330	337	339	338	344	343	343	345
12	Turbogenerator Units	314	307	306	315	318	333	332	344	349	349	350	362	362	369	370
13	Accessory Electrical Equipment	315	343	346	360	366	367	370	376	391	395	398	403	408	414	417
14	Misc. Power Plant Equipment	316	341	342	353	359	368	376	384	388	389	392	396	404	405	409
15																
16	**Nuclear Production Plant**															
17	Total Nuclear Production Plant		308	309	318	322	331	332	339	347	348	350	357	359	364	366
18	Structures & Improvements	321	264	270	276	285	291	298	298	302	303	308	313	318	322	324
19	Reactor Plant Equipment	322	311	311	318	321	329	328	336	344	345	345	351	352	355	357
20																
21	**Hydro Production Plant**															
22	Total Hydraulic Production Plant		273	278	282	289	293	303	304	307	309	313	318	324	328	332
23	Structures & Improvements	331	279	284	293	299	304	313	315	321	323	325	329	333	336	339

Rate Case

Liability Losses Forecast w/ CPI info

LIABILITY INSURANCE - ABSORBED LOSSES
BUDGET FORECAST FOR 2005/2006

92575 SUB ACTIVITY	Recorded 1996	1997	1998	1999	2000	2001	2002	2003	1/04
JEK-ABS GLPD	$267,924	$294,284	$203,031	$207,144	$305,937	$352,991	$348,878	$390,219	$35,410
JEL-ABS GLBI	$335,916	$212,813	$766,545	$26,084	$29,180	$816,445	$97,700	$401,049	$0
JEP-ADJX GLPD	$1,549	$1,142	$1,025	$3,542	$4,091	$10,784	$936	$148	$280
JEQ-ADJX GLBI	$3,615	$1,469	$8	$6,730	$14,936	$22,054	$11,123	$10,047	$0
JET-LGL GLPD	$3,380	$1,149	$5,429	$10,881	$27,731	$129,004	$263	$20,876	$0
JEU-LGL GLBI	$68,387	$109,874	$369,969	$282,861	$106,265	$273,469	$258,487	$307,157	$12,423
JE9-E&O CLMS	$0	$0	$0	$0	$0	$0	$0	$0	$0
JJP-CLM HELCO	$216,440	$29,749	$5,726	$3,009	$13	$10	$8	$7	$0
JOP-CLM MECO	$22,239	$3,124	$14,563	$1,227	$4	$36	$0	$0	$0
QOL-CLMS YBL	$0	$0	$1,573	$8,322	$0	$0	$0	$0	$0
UYL-CLMS ASB	$9,240	$704	$1,405	$1,858	$2,349	$877	$6,969	$0	$0
JEM-ABS ALPD	$30,538	$34,478	$20,946	$23,281	$20,113	$15,493	$31,757	$14,326	$3,616
JEN-ABS ALBI	$111,982	$82,205	$122,185	$17,352	$215,921	$0	$18,721	$524	$0
JER-ADJX ALPD	$1,106	$2,044	$1,284	$2,185	$534	$1,911	$1,071	$163	$0
JES-ADJX ALBI	$0	$34	$0	$191	$120	$0	$152	$0	$0
JEV-LGL ALPD	$273	$25,997	$311	$0	$0	$0	$0	$0	$0
JEW-LGL ALBI	$8,224	$19,977	$10,815	$0	$20,124	$0	$0	$0	$0
JDV-AL RESV	($85,000)	($5,000)	($60,000)	$72,600	($72,600)	$0	$0	$0	$0
JDY-GL RESV	($371,000)	($106,000)	($25,000)	$26,000	$29,000	$182,800	$536,200	($145,000)	$0
JD1-GL LGLRES	($96,317)	$45,488	($69,100)	($34,600)	$24,700	$95,461	$93,700	($113,200)	$0
JD2-AL LGLRES	$10,000	$10,000	($20,000)	$5,000	($5,000)	$0	$5,000	$0	$0
CPI	170.70	171.90	171.50	173.30	176.30	178.40	180.30	183.20	183.20 6/03
DVLPMNT FCTR	1.07	1.07	1.07	1.06	1.04	1.03	1.02	1.00	1.00

92575 SUB ACTIVITY	1996 (2003 $'s)	1997 (2003 $'s)	1998 (2003 $'s)	1999 (2003 $'s)	2000 (2003 $'s)	2001 (2003 $'s)	2002 (2003 $'s)	2003 (2003 $'s)	2004 (1/04)	97 MONTH TOTAL	MONTHLY AVERAGE	YEARLY TOTAL	2004 FORECAST	2005 FORECAST	2006 FORECAST
JEK-ABS GLPD	$286,679	$314,884	$217,243	$219,573	$316,174	$363,581	$355,856	$390,219	$35,410	$2,501,619	$25,790	$309,480	$315,670	$322,299	$329,067
JEL-ABS GLBI	$359,430	$227,617	$820,203	$27,649	$30,347	$840,938	$99,654	$401,049	$0	$2,807,087	$28,939	$347,268	$354,213	$361,651	$369,246
JEP-ADJX GLPD	$1,657	$1,222	$1,097	$3,755	$4,255	$11,108	$955	$148	$280	$24,477	$252	$3,024	$3,084	$3,149	$3,215
JEQ-ADJX GLBI	$3,866	$1,572	$9	$7,134	$15,533	$22,716	$11,345	$10,047	$0	$72,224	$745	$8,940	$9,119	$9,310	$9,506
JET-LGL GLPD	$3,617	$1,229	$5,809	$11,534	$28,840	$132,874	$268	$20,876	$0	$205,049	$2,114	$25,368	$25,875	$26,418	$26,973
JEU-LGL GLBI	$73,174	$117,565	$395,867	$299,633	$110,516	$281,673	$263,636	$307,157	$12,423	$1,861,644	$19,194	$230,328	$234,935	$239,869	$244,906
JE9-E&O CLMS	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
JJP-CLM HELCO	$231,591	$31,831	$6,127	$3,190	$14	$10	$8	$7	$0	$272,778	$2,812	$33,744	$0	$0	$0
JOP-CLM MECO	$23,796	$3,343	$15,582	$1,301	$4	$37	$0	$0	$0	$44,063	$454	$5,448	$0	$0	$0
QOL-CLMS YBL	$0	$0	$1,683	$8,701	$0	$0	$0	$0	$0	$8,384	$86	$1,032	$0	$0	$0
UYL-CLMS ASB	$9,887	$753	$1,503	$1,969	$2,443	$903	$7,108	$0	$0	$24,566	$253	$3,036	$0	$0	$0
JEM-ABS ALPD	$32,676	$36,891	$22,412	$24,678	$20,918	$15,958	$32,392	$14,326	$3,616	$203,867	$2,102	$25,224	$25,728	$26,268	$26,820
JEN-ABS ALBI	$119,821	$87,959	$130,738	$18,393	$224,558	$0	$19,095	$524	$0	$601,088	$6,197	$74,364	$75,851	$77,444	$79,070
JER-ADJX ALPD	$1,183	$2,187	$1,374	$2,316	$555	$1,968	$1,092	$163	$0	$10,638	$112	$1,344	$1,371	$1,400	$1,429
JES-ADJX ALBI	$0	$36	$0	$202	$125	$0	$155	$0	$0	$518	$5	$60	$61	$62	$63
JEV-LGL ALPD	$292	$27,817	$333	$0	$0	$0	$0	$0	$0	$28,442	$293	$3,516	$3,586	$3,661	$3,738
JEW-LGL ALBI	$8,800	$21,375	$11,572	$0	$20,929	$0	$0	$0	$0	$62,676	$646	$7,752	$7,907	$8,073	$8,243
JDV-AL RESV	($69,550)	($5,350)	($84,200)	$76,956	($75,504)	$0	$0	$0	$0	($137,648)	($1,419)	($17,028)	($17,369)	($17,734)	($18,106)
JDY-GL RESV	($396,970)	($113,420)	($26,750)	$27,560	$30,160	$186,284	$546,924	($145,000)	$0	$110,788	$1,142	$13,704	$13,978	$14,272	$14,572
JD1-GL LGLRES	($103,059)	$48,672	($73,937)	($38,676)	$25,688	$96,325	$95,574	($113,200)	$0	($58,613)	($604)	($7,248)	($7,393)	($7,546)	($7,707)
JD2-AL LGLRES	$10,700	$10,700	($21,400)	$5,300	($5,200)	$0	$5,100	$0	$0	$5,200	$54	$648	$661	$675	$689
												TOTAL:	$1,047,277	$1,069,269	$1,091,724

2004 forecast = Yearly total + 2.0%.
2005 forecast = 2004 forecast + 2.1%.
2006 forecast = 2005 forecast + 2.1%.

NOTE: Included Plouffe loss (1998 $680,000/GLBI and $320,000/LGL GLBI). Reflects current $1M SI NOTE: YBL/HTB sold late 1999. Removed from future forecast 9-9-99.
NOTE: HELCO & MECO making their own claim payments in '97. NOTE: ASB making their own claim payments starting '03

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CODE BLOCK LIABILITY 2005/2006

92575 SUB ACTIVITY	RA	ACT	LOCATION	IND	PROJECT	EXP ELEM	YEARLY TOTAL	2004 FORECAST	2005 FORECAST	2006 FORECAST	MONTHLY YR 2004	MONTHLY YR 2005	MONTHLY YR 2006
JEK-ABS GLPD	PKI	950	PHE	NE	NPKZZZZZ	509	$309,480	$315,670	$322,299	$329,067	26306	26858	27422
JEL-ABS GLBI	PKI	950	PHE	NE	NPKZZZZZ	509	$347,268	$354,213	$361,651	$369,246	29518	30138	30771
JEP-ADJX GLPD	PKI	950	PHE	NE	NPKZZZZZ	509	$3,024	$3,084	$3,149	$3,215	257	262	268
JEQ-ADJX GLBI	PKI	950	PHE	NE	NPKZZZZZ	509	$8,940	$9,119	$9,310	$9,506	760	776	792
JET-LGL GLPD	PKI	950	PHE	NE	NPKZZZZZ	502	$25,368	$25,875	$26,418	$26,973	2156	2202	2248
JEU-LGL GLBI	PKI	950	PHE	NE	NPKZZZZZ	502	$230,328	$234,935	$239,869	$244,906	19578	19989	20409
JE9-E&O CLMS	PKI	950	PHE	NE	NPKZZZZZ	501	$0	$0	$0	$0	0	0	0
JJP-CLM HELCO	PKI	950	HEL	BE	NPKZZZZZ	509	$33,744	$0	$0	$0	0	0	0
JOP-CLM MECO	PKI	950	MAU	BE	NPKZZZZZ	509	$5,448	$0	$0	$0	0	0	0
QOL-CLMS YBL	PKI	950	YBL	BE	NPKZZZZZ	509	$1,032	$0	$0	$0	0	0	0
UYL-CLMS ASB	PKI	950	ASB	BE	NPKZZZZZ	509	$3,036	$0	$0	$0	0	0	0
JEM-ABS ALPD	PKI	950	PHE	NC	NPKZZZZZ	509	$25,224	$25,728	$26,268	$26,820	2144	2189	2235
JEN-ABS ALBI	PKI	950	PHE	NC	NPKZZZZZ	509	$74,364	$75,851	$77,444	$79,070	6321	6454	6589
JER-ADJX ALPD	PKI	950	PHE	NC	NPKZZZZZ	509	$1,344	$1,371	$1,400	$1,429	114	117	119
JES-ADJX ALBI	PKI	950	PHE	NC	NPKZZZZZ	509	$60	$61	$62	$63	5	5	5
JEV-LGL ALPD	PKI	950	PHE	NC	NPKZZZZZ	502	$3,516	$3,586	$3,661	$3,738	299	305	312
JEW-LGL ALBI	PKI	950	PHE	NC	NPKZZZZZ	502	$7,752	$7,907	$8,073	$8,243	659	673	687
JDV-AL RESV	PKI	950	PHE	NC	NPKZZZZZ	900	($17,028)	($17,369)	($17,734)	($18,106)	-1447	-1478	-1509
JDY-GL RESV	PKI	950	PHE	NE	NPKZZZZZ	900	$13,704	$13,978	$14,272	$14,572	1165	1189	1214
JD1-GL LGLRES	PKI	950	PHE	NE	NPKZZZZZ	900	($7,248)	($7,393)	($7,548)	($7,707)	-616	-629	-642
JD2-AL LGLRES	PKI	950	PHE	NE	NPKZZZZZ	900	$648	$661	$675	$689	55	56	57
							$1,070,004	$1,047,277	$1,069,269	$1,091,724	$87,274	$89,106	$90,977

2004 FORECAST = YEARLY TOTAL + 2.0%
2005 FORECAST = 2004 TOTAL + 2.1%
2006 FORECAST = 2005 TOTAL + 2.1%

CONSOLIDATION OF CODE BLOCKS

												MONTHLY YR 2005	MONTHLY YR 2006
	PKI	950	PHE	NE	NPKZZZZZ	509	JEK/JEL/JEP/JEQ				56,841	58,034	59,253
	PKI	950	PHE	NE	NPKZZZZZ	501	JE9				-	-	-
	PKI	950	PHE	NE	NPKZZZZZ	900	JDY/JD1/JD2				604	616	629
	PKI	950	HEL	BE	NPKZZZZZ	509	JJP	SUBSIDIARY			0	0	0
	PKI	950	MAU	BE	NPKZZZZZ	509	JOP	SUBSIDIARY			0	0	0
	PKI	950	YBL	BE	NPKZZZZZ	509	QOL	SUBSIDIARY			0	0	0
	PKI	950	ASB	BE	NPKZZZZZ	509	UYL	SUBSIDIARY			0	0	0
AUTO	PKI	950	PHE	NC	NPKZZZZZ	509	JEM/JEN/JER/JES				8584	8765	8948
	PKI	950	PHE	NC	NPKZZZZZ	900	JDV(GOES TO CLEARING ACCT)				-1447	-1478	-1509
	PKI	950	PHE	NE	NPKZZZZZ	502	JET/JEU				21734	22191	22657
AUTO	PKI	950	PHE	NC	NPKZZZZZ	502	JEV/JEW				958	978	999
											$87,274	$89,106	$90,977
VEHICLE	PKI	950	PHE	NE	NPKZZZZZ	301	126hrsx$4/hr		$504		$42	$42	$42
										TOTAL	$87,316	$89,148	$91,019

2-2-04 NOTE: Included Plouffe loss (1998 $680,000/GLBI and $320,000/LGL GLBI). Reflects current $1M SIR.

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U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS, FAX-ON-DEMAND Phone 415-975-4567 Note: To receive an explanation on how to compute a percentage change between any two periods request FAX-ON-DEMAND Code 9255. To request information on using the CPI as an escalator on rental agreement and other contracts request FAX-ON-DEMAND Code 9256

FAX-ON-DEMAND CODE 9225

08/15/08

HONOLULU

Consumer Price Index, All Items, 1982-84=100 for All Urban Consumers (CPI-U)

YEAR	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL AVERAGE
1982		95.2		95.6		97.7		97.6		100.0		98.0	97.2
1983		98.2		99.1		98.8		99.3		100.4		101.1	99.3
1984		102.0		102.9		103.4		103.9		104.4		105.3	103.5
1985		106.3		106.3		106.8		106.9		107.4		108.4	106.8
1986		109.4		106.6		108.7		109.5		109.8		110.9	109.4

Table of over-the-year percent increases. An entry for Feb. 1986 indicates the percentage increase from Feb. 1985 to Feb. 1986 (in this example 2.9 percent).

YEAR	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL AVERAGE
1983		3.2		3.7		0.9		1.4		0.4		3.2	2.2
1984		3.9		3.8		4.9		4.6		4.0		4.2	4.2
1985		4.2		3.3		3.1		2.9		2.9		2.9	3.2
1986		2.9		2.2		2.0		2.4		2.2		2.3	2.4

SEMI-ANNUAL AVERAGE

YEAR	1st Half	2nd Half	ANNUAL AVERAGE
1984	102.6	104.4	103.5
1985	106.3	107.4	106.8
1986	108.9	109.9	109.4
1987	113.3	116.5	114.9
1988	120.1	123.4	121.7
1989	126.4	131.1	128.7
1990	135.5	140.8	138.1
1991	146.8	149.1	146.0
1992	153.8	156.4	155.1
1993	158.6	161.6	160.1
1994	163.4	165.7	164.5
1995	166.9	169.4	168.1
1996	170.5	171.0	170.7
1997	172.1	171.8	171.9
1998	172.0	171.0	171.5
1999	172.7	173.8	173.3
2000	175.9	176.7	176.3
2001	178.1	178.7	178.4
2002	180.1	180.4	180.3
2003	183.2		

OVER-THE-YEAR PERCENT CHANGE

YEAR	1st Half	2nd Half	ANNUAL AVERAGE
1984			
1985	3.7	2.9	3.2
1986	2.4	2.9	2.4
1987	4.0	6.0	5.0
1988	6.0	5.9	5.9
1989	5.2	6.2	5.8
1990	7.2	7.4	7.3
1991	8.3	5.9	7.2
1992	4.8	4.9	4.8
1993	3.1	3.3	3.2
1994	3.0	2.5	2.7
1995	2.1	2.2	2.2
1996	2.2	0.9	1.8
1997	0.9	0.5	0.7
1998	-0.1	-0.5	-0.2
1999	0.4	1.6	1.0
2000	1.9	1.7	1.7
2001	1.3	1.1	1.2
2002	1.1	1.0	1.1
2003	1.7		

Liability 950

Liability 1/04 - 1/04

1579 Work Order Search Report - By Work Order Number

Report Parameters

WO Number:		Work Group:		Date Raised From:	1/1/1900	Equipment:	
WO Type:		Project No:		Date Raised To:	12/31/9999	Hrs/Cost From:	200401
Maint Type:		Parent WO Type:	STANDARD	Cost Center:	PK1950*	Hrs/Cost To:	200401
WO Status:		Parent WO:		Event Type:		District:	HECO
Assign To:		Originator:	NAKAYAMA	Standard Job#:		Sort By:	Work Order #

Company: HECO

Item #	Project#	Parent WO	WO #	WO Description	St	Cost Center / Acct	Raised Dt	WT	MT	Originated By	Assign To	Wk Grp	Selected Period Act Hrs	Selected Period Act Cost	Total to Date Est Hrs	Total to Date Act Hrs	Total to Date Act Cost
1			FI000185	JEK Absorbed GL Property Damage C	A	PK1950PHENENPKZZZZZ	12/22/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M		0.0	35,499.69	0.0	6.0	1,840,679.32
2			FI000194	JEL Absorbed Claims GL Bodily Injury	A	PK1950PHENENPKZZZZZ	12/22/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.0	1,370,458.82
3			FI000195	JEP Adjusting Exp. GL Property Dama	A	PK1950PHENENPKZZZZZ	12/22/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M		0.0	280.10	0.0	150.1	19,781.96
4			FI000196	JEQ Adjusting Exp. GL Bodily Injury	A	PK1950PHENENPKZZZZZ	12/22/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M	PEAJT			80.0	125.5	64,890.25
5			FI000197	JET Legal Fees GL Property Damage	A	PK1950PHENENPKZZZZZ	12/22/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.0	188,757.31
6			FI000198	JEU Legal Fees GL Bodily Injury	A	PK1950PHENENPKZZZZZ	12/22/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M		0.0	12,422.69	0.0	0.0	1,240,842.07
7			FI000199	JEV E&O Claims	A	PK1950PHENENPKZZZZZ	12/22/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.0	0.00
8			FI000200	Absorbed Claims AL Property Damag	A	PK1950PHENCNPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M		0.0	3,816.33	0.0	0.0	108,585.44
9			FI000201	Absorbed Claims AL Bodily Injury	A	PK1950PHENCNPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.0	252,518.11
10			FI000202	JER-Adjusting Exp. AL Property Dama	A	PK1950PHENCNPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	40.0	5,885.37
11			FI000205	JES-Adjusting Exp. AL Bodily Injury	A	PK1950PHENCNPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.0	712.15
12			FI000206	JEV-Legal Fees AL Property Damage	A	PK1950PHENCNPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.0	0.00
13			FI000207	JEW-Legal Fees AL Bodily Injury	A	PK1950PHENCNPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.0	20,124.43
14			FI000208	JDV-AL Reserves	A	PK1950PHENCNPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.0	0.00
15			FI000209	JDY-GL Reserves	A	PK1950PHENENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.0	629,000.00
16			FI000210	JD1-GL Legal Reserves	A	PK1950PHENENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.0	86,061.00
17			FI000211	JD2-AL Legal Reserves	A	PK1950PHENENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.0	5,000.00
18			FI000212	JJP-HELCO Claim Payments (H10755	A	PK1950HELBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.0	3,046.51
19			FI000213	JOP-MECO Claim Payments (M11882	A	PK1950MAUBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	1.0	1,267.47
20			FI000214	QOL-YBL Claim Payments	C	PK1950YBLBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.0	8,321.58
21			FI000215	UYL-ASB Claim Payments	A	PK1950ASBBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.7	12,052.62
22			FI000216	PEC6-Claim Payments	A	PK1950PECBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.0	0.00
23			FI000217	TGOT6-Claim Payments	A	PK1950HTGBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.0	0.00
24			FI000218	HEI-Claim Payments	A	PK1950HEIBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.0	469.46
25			FI000219	MPC-Claim Payments	C	PK1950MPCBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.0	0.00
26			FI000220	HEHC-Claim Payments	A	PK1950HHNBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.0	18.50
27			FI000221	HEIPC-Claim Payments	A	PK1950HPCBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.0	0.00
28			FI000262	Claims-Liability Labor	A	PK1950PHENENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M		504.5	22,751.41	0.0	33816.2	1,162,660.06

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1579 Work Order Search Report - By Work Order Number

Report Parameters

WO Number:		*Work Group:*		*Date Raised From:*	*1/1/1900*	*Equipment:*	
WO Type:		*Project No:*		*Date Raised To:*	*12/31/9999*	*Hrs/Cost From:*	*200401*
Maint Type:		*Parent WO Type:*	*STANDARD*	*Cost Center:*	*PKI950**	*Hrs/Cost To:*	*200401*
WO Status:		*Parent WO:*		*Event Type:*		*District:*	*HECO*
Assign To:		*Originator:*	*NAKAYAMA*	*Standard Job#:*		*Sort By:*	*Work Order #*

Company: HECO

Item #	Project#	Parent WO	WO #	WO Description	St	Cost Center / Acct	Raised Dt	WT	MT	Originated By	Assign To	Wk Grp	Selected Period Act Hrs	Selected Period Act Cost	Total to Date Est Hrs	Total to Date Act Hrs	Total to Date Act Cost
29			FI000270	Claims-Liability Lbr HELCO (H18755,	A	PKI950HELBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	15.3	538.87
30			FI000273	Liability Claims-Labor MECO(M11862,	A	PKI950MAUBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	3.8	130.46
31			FI000276	Claims-Liability Labor PECS	A	PKI950PECBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.0	0.00
32			FI000279	Claims-Liability Labor-TOOTG	A	PKI950HYBBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.0	0.00
33			FI000282	Claims-Liability Labor YBL	C	PKI950YBLBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	4.1	143.89
34			FI000284	Claims-Liability Labor HEI	A	PKI950HEIBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	3.8	124.91
35			FI000286	Claims-Liability Labor MPC	C	PKI950MPCBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.0	0.00
36			FI000289	Claims-Liability Labor HEIIC	A	PKI950HIIBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.0	0.00
37			FI000291	Claims-Liability Labor HEIPC	A	PKI950HPCBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.0	0.00
38			FI000294	Claims-Liability Labor ASB	A	PKI950ASBBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	20.5	1,031.24
39		EP000008	FI000521	AT&T Cable Incident	A	PKI950PHENENPKZZZZZ	04/19/1999	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	4.0	177.37
40		SO000007	FI000525	Emergency Response Plan	A	PKI950PHENENPKZZZZZ1	04/22/1999	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	12.0	422.67
41		SO000032	FI000517	Asian Banking Conference Advance P	A	PKI950PHENENPKZZZZZ	04/30/2001	ST	50	NAKAYAMA, MA	NAKAYAMA, M				0.0	0.5	25.15
Total Count: 41												Grand Total:	504.5	74,480.22	80.0	34212.4	8,801,298.94

~~Liability 1/03~~ — 12/03

Order Number

ised From:	1/1/1900	Equipment:	
ised To:	2/2/2004	Hrs/Cost From:	200301
nter:	PK1950*	Hrs/Cost To:	200312
ype:		District:	HECO
d Job#:		Sort By:	Work Order #

						Selected Period		Total to Date		
Dt	WT	MT	Originated By	Assign To	Wk Grp	Act Hrs	Act Cost	Est Hrs	Act Hrs	Act Cost
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV		0.0	390,218.96	0.0	0.0	1,840,579.32
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV		0.0	401,048.95	0.0	0.0	1,370,456.62
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV		0.0	148.38	0.0	150.1	19,781.96
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV	PEAJT	0.0	10,047.37	80.0	126.5	84,880.25
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV		0.0	20,878.19	0.0	0.0	188,757.31
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV		0.0	307,157.18	0.0	0.0	1,240,642.07
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV				0.0	0.0	0.00
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV		0.0	14,325.71	0.0	0.0	108,585.44
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV		0.0	523.84	0.0	0.0	252,518.11
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV		0.0	162.84	0.0	40.0	5,865.37
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV				0.0	0.0	712.15
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV				0.0	0.0	0.00
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV				0.0	0.0	20,124.43
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV				0.0	0.0	0.00
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV		0.0	-145,000.00	0.0	0.0	629,000.00
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV		0.0	-113,200.00	0.0	0.0	66,081.00
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV				0.0	0.0	5,000.00
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV		0.0	7.06	0.0	0.0	3,046.51
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV				0.0	1.0	1,267.47
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV				0.0	0.0	6,321.58
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV				0.0	0.7	12,052.62
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV				0.0	0.0	0.00
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV				0.0	0.0	0.00
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV				0.0	0.0	469.46
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV				0.0	0.0	0.00
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV				0.0	0.0	18.50
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV				0.0	0.0	0.00
1998	ST	50	NAKAYAMA, MA DV	NAKAYAMA, M ADV		6365.7	282,548.00	0.0	33816.2	1,182,550.06

1579 Work Order Search Report - By Work Order Number

Report Parameters

WO Number:		Work Group:		Date Raised From:	1/1/1900	Equipment:	
WO Type:		Project No:		Date Raised To:	2/2/2004	Hrs/Cost From:	200301
Maint Type:		Parent WO Type:	STANDARD	Cost Center:	PKI950*	Hrs/Cost To:	200312
WO Status:		Parent WO:		Event Type:		District:	HECO
Assign To:		Originator:	NAKAYAMA	Standard Job#:		Sort By:	Work Order #

Company: HECO

Item #	Project#	Parent WO	WO #	WO Description	St	Cost Center / Acct	Raised Dt	WT	MT	Originated By	Assign To	Wk Grp	Selected Period Act Hrs	Selected Period Act Cost	Total to Date Est Hrs	Total to Date Act Hrs	Total to Date Act Cost
28			FI000270	Claims-Liability Lbr HELCO (H18755, [illegible]	A	PKI950HELBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MADV	NAKAYAMA, MADV				0.0	15.3	536.82
30			FI000273	Liability Claims-Labor MECO(M11982, [illegible]	A	PKI950MAUBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MADV	NAKAYAMA, MADV				0.0	3.8	130.46
31			FI000276	Claims-Liability Labor PECS	A	PKI950PECSBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MADV	NAKAYAMA, MADV				0.0	0.0	0.00
32			FI000279	Claims-Liability Labor-TOOTS	A	PKI950HTBBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MADV	NAKAYAMA, MADV				0.0	0.0	0.00
33			FI000282	Claims-Liability Labor YBL	C	PKI950YBLBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MADV	NAKAYAMA, MADV				0.0	4.1	143.89
34			FI000284	Claims-Liability Labor HEI	A	PKI950HEIBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MADV	NAKAYAMA, MADV				0.0	3.8	124.91
35			FI000288	Claims-Liability Labor MPC	C	PKI950MPCBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MADV	NAKAYAMA, MADV				0.0	0.0	0.00
36			FI000289	Claims-Liability Labor HEIIC	A	PKI950HIIBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MADV	NAKAYAMA, MADV				0.0	0.0	0.00
37			FI000291	Claims-Liability Labor HEIPC	A	PKI950HPCBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MADV	NAKAYAMA, MADV				0.0	0.0	0.00
38			FI000294	Claims-Liability Labor ASB	A	PKI950ASBBENPKZZZZZ	12/23/1998	ST	50	NAKAYAMA, MADV	NAKAYAMA, MADV				0.0	29.5	1,031.24
39		EP000006	FI000521	AT&T Cable Incident	A	PKI950PHENENPKZZZZZ	04/10/1999	ST	50	NAKAYAMA, MADV	NAKAYAMA, MADV		1.0	47.83	0.0	4.0	177.37
40		SO000007	FI000525	Emergency Response Plan	A	PKI950PHENENPKZZZZZ1	04/22/1999	ST	50	NAKAYAMA, MADV	NAKAYAMA, MADV				0.0	12.0	422.87
41		SO000032	FI000817	Asian Banking Conference Advance P [illegible]	A	PKI950PHENENPKZZZZZ	04/30/2001	ST	50	NAKAYAMA, MADV	NAKAYAMA, MADV				0.0	0.5	25.15
Total Count: 41												Grand Total:	8367.7	1,188,814.28	80.0	34212.4	8,801,288.94

TO: RUSS HARRIS DATE: 12/27/04
FROM: BLANE MURAKAMI

HERE ARE "INFO TECH" WORKPAPERS SUPPORTING O&M ESTIMATES IN YOUR AREA. I HAVE CROSS-REFERENCED O&M AMOUNTS FROM THE LIST IMMEDIATELY ATTACHED TO THE WORKPAPERS FOR YOUR CONVENIENCE.

NARUC Account	Acct Block Description	O&M Witness
500, 502, 505, 506	Prod Operation WP3-1B	Aaron Fujinaka KAREN YIM
510, 511, 512, 513, 514	Prod Maintenance	Aaron Fujinaka
546, 548, 549	Prod Operation	Aaron Fujinaka
551, 553, 554	Prod Maintenance	Aaron Fujinaka
557	Prod Operation	Aaron Fujinaka
560, 561, 562, 563, 564, 566, 567	Transmission Operation WAM-DA	Steve Yoshida
569, 570, 571, 572, 573	Transmission Maintenance	Steve Yoshida
580, 581, 582, 583, 584, 586, 587, 588	Dist Operation	Steve Yoshida
590, 591, 592, 593, 594, 595, 596, 597, 598	Dist Maintenance	Steve Yoshida
901, 902, 903, 904	Customer Accounts KS1-CA	Darren Yamamoto (Amy Ejercito)
909, 910, 911, 912	Customer Services CP10-SM	Alan Hee STANLEY SHIMODA
920, 921, 923	A&G Operation KS3-AA	Ernest Shiraki JAIME LEE
924, 925	A&G Operation CP15-K1	Russell Harris
926	A&G Operation CP7-FB	Julie Price
9301, 9302	A&G Operation KS3-AC	Tayne Sekimura DOREEN MIYAMOTO
931, 932	A&G Maintenance	Tayne Sekimura

THANKS
BLANE
EXT 4262

P.S I CONFIRMED WITH IRENE SEKIYA THAT THERE WILL BE EIGHT SETS OF THESE WORKPAPERS IN OUR RESPONSE TO THE [illegible]

12/20/2004

Dept	RA	Resp Area	Acct Blk	Acct Blk Descr	NARUC	Exp Class	Proj	Act	Loc	EE	FY05
InfoTech	PEM	Mailing Services	B38	A & G Operation	921	Non-Labor	NPEZZZZZ	966	PHE	501	3,493
											$3,493.00
											28,741
InfoTech	PEM	Mailing Services	B38								$365,200.60
						ERNEST SHIRAKI					
InfoTech	PEM	Mailing Services	B39	A & G Maint	932	Non-Labor	NPEZZZZZ	966	PHE	600	36,780
											$36,780.00
											36,780
InfoTech	PEM	Mailing Services	B39								$36,780.00
						TAYNE SAKIMURA					
											EBS AMORTIZATION 69,277
InfoTech	PEM										$488,631.52
InfoTech	PEP	Project & Bus Mgt	B30	Prod Oper	506	Non-Labor	NPNEZZZZ	730	PPO	901	9,644.84
											$9,644.84
											9,644.84
InfoTech	PEP	Project & Bus Mgt	B30								$9,644.84
						AARON FUJINAKA					
InfoTech	PEP	Project & Bus Mgt	B34	Distribution Oper	587	Non-Labor	NPNEZZZZ	600	OAH	901	38,579.13
											$38,579.13
											38,579.13
InfoTech	PEP	Project & Bus Mgt	B34								$38,579.13
						STEVE YOSHIDA					
InfoTech	PEP	Project & Bus Mgt	B36	Customer Accounts	903	Non-Labor	NPNEZZZZ	611	OAH	901	38,579.13
											$38,579.13
											38,579.13
InfoTech	PEP	Project & Bus Mgt	B36								$38,579.13
						DARREN YAMAMOTO					
InfoTech	PEP	Project & Bus Mgt	B37	Customer Services	910	Non-Labor	NPNEZZZZ	110	PHE	901	18,903.71
											$18,903.71
InfoTech	PEP	Project & Bus Mgt	B37	Customer Services	910	Non-Labor	NPNEZZZZ	713	PHE	901	48,609.61
											$48,609.61
InfoTech	PEP	Project & Bus Mgt	B37	Customer Services	910	Non-Labor	NPNEZZZZ	750	PHE	901	28,934.41
											$28,934.41
											96,447.73
InfoTech	PEP	Project & Bus Mgt	B37								$96,447.73
						ALAN HEE					
InfoTech	PEP	Project & Bus Mgt	B38	A & G Operation	925	Non-Labor	NPNEZZZZ	950	PHE	901	9,644.84
											$9,644.84
											9,644.84
InfoTech	PEP	Project & Bus Mgt	B38								$9,644.84
						RUSSELL HARRIS					
											192,895.67
InfoTech	PEP										$192,895.67
InfoTech	PEZ	ISD Chargeback	B30	Prod Oper	500	Non-Labor	NPYZZZZZ	201	WST	451	103,512
											$103,512.00
InfoTech	PEZ	ISD Chargeback	B30	Prod Oper	502	Non-Labor	NPAVP2ZZ	245	KST	451	12,900
											$12,900.00

12/20/2004

Dept	_RA	Resp Area	Acct Blk	Acct Blk Descr	NARUC	Exp Class	_Proj	_Act	_Loc	_EE	FY05	
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPKZZZZZ	701	PHE	451	96,516	
											$96,516.00	
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPKZZZZZ	825	PHE	451	17,424	
											$17,424.00	
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPKZZZZZ	826	PHE	451	51,468	
											$51,468.00	
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPKZZZZZ	827	PHE	451	34,152	
											$34,152.00	
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPNAZZZZ	760	PHE	451	44,616	
											$44,616.00	
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPNCZZZZ	960	PHE	451	74,928	
											$74,928.00	
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPNEZZZZ	600	OAH	451	5,304	
											$5,304.00	
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPNEZZZZ	750	PHE	451	445,140	
											$445,140.00	
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPNLZZZZ	928	PHE	451	39,144	
											$39,144.00	
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPNPZZZZ	738	PHE	451	43,776	
											$43,776.00	
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPPZZZZZ	805	PHE	451	35,892	
											$35,892.00	
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPOCZZZZ	750	PHE	451	140,220	
											$140,220.00	
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPOCZZZZ	807	PHE	451	81,972	
											$81,972.00	
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPSZZZZZ	100	PHE	451	73,260	
											$73,260.00	
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPSZZZZZ	112	PHE	451	81,168	
											$81,168.00	
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPSZZZZZ	710	PHE	451	34,428	
											$34,428.00	
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPSZZZZZ	736	PHE	451	34,920	
											$34,920.00	
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPVZZZZZ	842	PHE	451	214,212	
											$214,212.00	
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPVZZZZZ	932	PHE	451	35,400	
											$35,400.00	
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPWZZZZZ	600	OAH	451	179,328	
											$179,328.00	
					ERNEST SHIRAKI							
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	924	Non-Labor	NPKZZZZZ	951	PHE	451	33,900	
											$33,900.00	
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	925	*Non-Labor	NPFZZZZZ	795	PHE	451	*80,412	
											$80,412.00	
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	925	Non-Labor	NPFZZZZZ	953	PHE	451	42,240	
											$42,240.00	
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	925	Non-Labor	NPHZZZZZ	950	PHE	451	99,216	
											$99,216.00	
					RUSSELL HARRIS							
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	926	Non-Labor	NPFZZZZZ	778	PHE	451	32,904	
											$32,904.00	
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	926	Non-Labor	NPFZZZZZ	779	PHE	451	35,928	
											$35,928.00	
					JULIE PRICE							
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	9302	Non-Labor	NPOEZZZZ	753	PHE	451	61,860	
											$61,860.00	
					TAYNE SEKIMURA							
InfoTech	PEZ	ISD Chargeback	B38								4,386,343	
											$4,386,343.00	$

A-5 A-7 A-7

Hawaiian Electric Company, Inc.
Information Technology & Services Department
ITS Costing System Allocated Costs - PEZ Entries

HECO's IT costs are allocated to functional area code blocks via the IT Costing System. The allocation entries are coded with the Responsibility Area (RA) code PEZ in HECO's financial system. The following is a general description of the PEZ budgeting methodology. Workpapers A-1 through A-7 show the detail allocation amounts for 2005.

Costs to be Cleared
IT Non-Project and non-capital Project costs represent the base of costs to be allocated. These costs are coded with Indicator NC (Non-billable clearing) and are therefore said to be subject to "Clearing". For 2005, the Costs to be Cleared were estimated to be $12,865,283, as shown on workpaper A-1. Details of these costs are shown on workpapers B and C.

Costs Cleared to
IT Costs are cleared to the following categories:
1) HELCO IT Costing System Direct Charges (2005 Estimate - $226,338)
2) MECO IT Costing System Direct Charges (2005 Estimate - $177,768)
3) Non-ITS Project Charges - Expense Element 451 transactions (2005 Estimate - $709,008)
4) Intercompany Billings (2005 Estimate - $265,335)
5) EFMS Program Charges (2005 Estimate - $799,992)
6) Ebusiness Program Charges (2005 Estimate - $758,292)
7) Other Functional Area Charges ($9,928,550)

Basis for Clearing
Amounts which are cleared to the first 4 items above (HELCO/MECO IT Direct Charges, Non-ITS Project Charges, Intercompany Billings) are directly identified. Workpapers D, E, and F show the basis for the amounts included in the 2005 budget.

Amounts which are cleared for items 5 (EFMS Program) and 6 (Ebusiness Program) are estimated by the Program Managers of these IT-Managed programs. Costs are cleared to HECO functional area code blocks benefiting from the services provided by these programs. EFMS and Ebusiness Program costs are shown on workpaper C. Proration percentages used to allocate these costs were identified by Program Managers in prior years and are shown on workpaper G-1.

The amount of item 7 (Other Functional Area Charges) represent the residual of "Costs to be Cleared" reduced by the first 6 items of "Costs Cleared to". These costs are prorated to functional area code blocks based on actual 2003 PEZ proration amounts shown on workpaper G.

PEZ Workpaper Index
A - PEZ Allocation Model
B - Non-Project "NC" Charges
C - Project "NC" Charges
D - HELCO and MECO IT Costing System Direct Charges
E - Non-ITS Project - Expense Element 451 Charges
F - Intercompany Billable Estimates
G - 2003 PEZ Actuals

Prepared by Blane Murakami, ITS Project Manager

PEZ ALLOCATION MODEL

Hawaiian Electric Company, Inc.
Information Technology & Services Department
PEZ Actuals Jan- Dec 2003

RA	Act	Loc	Ind	Project	EE	Monthly 05		Total 2005
COSTS TO BE CLEARED:								
Total NC charges								
NC per Non-Project							B	9,093,607
Non-Project on-cost							B	2,149,763
NC per EFMS Project							C	800,000
NC per EBUS Project							C	758,300
NC per Other Projects							C	63,613
Total NC charges						1,072,107		12,865,283
COSTS CLEARED TO:								
Less: HELCO-IT Costing System direct charge per B. Tobara						18,862	D	226,338
Less: MECO-IT Costing System direct charge per B. Tobara						14,814	D	177,768
Less: Expense Element 451 charges by non-ITS PMs							E	709,008
								11,752,169
Less: InterCompany								
PEZ	700	RHI	BE	NPASVP7Z	451	89	F	1,070
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	F	[illegible]

Hawaiian Electric Company, Inc.
Information Technology & Services Department
PEZ Actuals Jan- Dec 2003

RA	Act	Loc	Ind	Project	EE	Monthly 05	Total 2005
PEZ	455	OAH	NC	NPEZZZZZ		3,928	47,136.00
PEZ	455	OAH	NE	NPEZZZZZ		399	4,788.00
PEZ	456	OAH	NE	NPEZZZZZ		6,794	81,528.00
PEZ	600	OAH	NE	NPWZZZZZ		14,944	179,328.00
PEZ	907	OAH	NC	NPBZZZZZ		1,993	23,916.00
PEZ	926	PHE	NE	NPEZZZZZ		1,108	13,296.00
PEZ	931	PHE	NE	NPEZZZZZ		2,038	24,456.00
Total EFMS						66,667	799,992.00
			NE	41%	NE		331,944.00
			NC	59%	NC		468,048.00
			Total	100%			799,992.00
Less: EBusiness Allocations							
PEZ	110	PHE	NE	NPNEZZZZ		6565	78,780.00
PEZ	600	OAH	NE	NPNEZZZZ		442	5,304.00
PEZ	611	OAH	NE	NPNEZZZZ		13401	160,812.00
PEZ	713	PHE	NE	NPNEZZZZ		5688	68,256.00
PEZ	730	PHE	NE	NPNEZZZZ		0	-
PEZ	750	PHE	NE	NPNEZZZZ		23255	279,060.00
PEZ	950	PHE	NE	NPNEZZZZ		13840	166,080.00
Total EBusiness						63,192	758,292.00
Total NC less Direct Charge, Intercompan						827,379	9,928,550
PEZ	100	PHE	NE	NPSZZZZZ	451	6,105	73,260
	100 Total						
PEZ	102	PHE	NE	NPSZZZZZ	451	1,243	14,916
	102 Total						
PEZ	110	PHE	NE	NPSZZZZZ	451	13,004	156,048

Hawaiian Electric Company, Inc.
Information Technology & Services Department
PEZ Actuals Jan- Dec 2003

RA	Act	Loc	Ind	Project	EE	Monthly 05	Total 2005
PEZ	242	KST	NE	**NPIZZZZZ**	451	6,904	82,848

Hawaiian Electric Company, Inc.
Information Technology & Services Department
PEZ Actuals Jan- Dec 2003

RA	Act	Loc	Ind	Project	EE	Monthly 05	Total 2005
	461 Total						
PEZ	462	OAH	NE	NPAVP2ZZ	451	310	3,720
	462 Total						
PEZ	463	OAH	NE	NPAVP2ZZ	451	344	4,128
	463 Total						
PEZ	465	OAH	NE	NPWZZZZZ	451	1,412	16,944
	465 Total						
PEZ	474	OAH	NE	NPAVP2ZZ	451	554	6,648
	474 Total						
PEZ	477	OAH	NE	NPAVP2ZZ	451	543	6,516
	477 Total						
PEZ	486	OAH	NE	NPAVP2ZZ	451	177	2,124
	486 Total						
PEZ	600	OAH	NC	NPWZZZZZ	451	32,902	394,824
PEZ	600	OAH	NE	NPWZZZZZ	451	16,606	199,272
PEZ	600	OAH	NE	NPCZZZZZ	451		
PEZ	600	OAH	NE	NPCZZZZZ	452		

Hawaiian Electric Company, Inc.
Information Technology & Services Department
PEZ Actuals Jan- Dec 2003

RA	Act	Loc	Ind	Project	EE	Monthly 05	Total 2005
PEZ	714	PHE	NE	NPEZZZZZ	451		
	714 Total						
PEZ	720	PHE	NS	**NPCZZZZZ**	451	60,493	725,916
PEZ	720	PHE	NE	NPNEZZZZ	451		
	720 Total						
PEZ	722	PHE	NE	**NPFZZZZZ**	451	1,667	20,004
	722 Total						

Hawaiian Electric Company, Inc.
Information Technology & Services Department
PEZ Actuals Jan- Dec 2003

RA	Act	Loc	Ind	Project	EE	Monthly 05	Total 2005
PEZ	818	PHE	NE	**NPAVP1ZZ**	451		
PEZ	818	PHE	NE	NPAZZZZZ	451		
	818 Total						
PEZ	825	PHE	NE	NPKZZZZZ	451	1,452	17,424
	825 Total						
PEZ	826	PHE	NE	NPKZZZZZ	451	4,289	51,468
PEZ	826	PHE	NE	NPAVP4ZZ	451		
	826 Total						
PEZ	827	PHE	NE	NPKZZZZZ	451	2,846	34,152
	827 Total						
PEZ	842	PHE	NE	**NPVZZZZZ**	451	16,574	198,888
PEZ	842	PHE	NE	NPAVP2ZZ	451		
	842 Total						
PEZ	843	PHE	NE	NPAVP2ZZ	451	16,353	196,236
PEZ	843	PHE	NE	NPEZZZZZ	451		
PEZ	843	PHE	NI	P0000340	451		
PEZ	843	PHE	NE	NPAZZZZZ	451		
	843 Total						
PEZ	850	PHE	NE	NPAVP2ZZ	451	4,484	53,808
PEZ	850	PHE	NE	**NPIZZZZZ**	451		
	850 Total						
PEZ	853	PHE	NC	**NPVZZZZZ**	451	12,945	155,340
	853 Total						
PEZ	875	HST	NE	NPJZZZZZ	451	7,005	84,060
PEZ	875	PHE	NE	NPJZZZZZ	451		
	875 Total						
PEZ	876	PHE	NE	NPJZZZZZ	451	11,888	142,656
	876 Total						
PEZ	896	PHE	NE	NPEZZZZZ	451	3,417	41,004
	896 Total						
PEZ	899	PHE	NE	NPKZZZZZ	451	-	-
	899 Total						
PEZ	907	OAH	NC	NPBZZZZZ	451	1,570	18,840

Hawaiian Electric Company, Inc.
Information Technology & Services Department
PEZ Actuals Jan- Dec 2003

RA	Act	Loc	Ind	Project	EE		Monthly 05	Total 2005		
PEZ	950	PHE	NE	**NPHZZZZZ**	451		8,268	99,216	NARUC 925	#54
PEZ	950	PHE	NE	**NPKZZZZZ**	451					
	950 Total									
PEZ	951	PHE	NE	NPKZZZZZ	451		2,825	33,900	NARUC 924	#33
	951 Total									
PEZ	953	PHE	NE	NPFZZZZZ	451		3,520	42,240	NARUC 925	#55
	953 Total									
PEZ	960	PHE	NE	NPNCZZZZ	451		6,244	74,928		
	960 Total									
PEZ	965	PHE	NE	NPEZZZZZ	451		1,636	19,632		
	965 Total									
PEZ	966	PHE	NE	NPEZZZZZ	451		2,896	34,752		
	966 Total									
PEZ	967	PHE	NE	NPEZZZZZ	451		3,375	40,500		
	967 Total									
	Grand Total						827,378	9,928,536		
						NE	599,043	7,249,788		
						NC/N	228,335	2,678,748		
								9,928,536		
	Check total to pillar							11,752,155.00		

4/20/2004 » budget manager: P... 11:49AM

Dept	Expense Categ...	FY05 Upd04 RA
InfoTech	Labor (A)	$4,714,393
	Materials	$105,604
	On-Costs	0
	Other	$1,181,513
	Outside Svcs	$3,090,837
	Transportation	$1,260
		$9,093,607

SEE WORKPAPER B-3 FOR DETAILS

LABOR (A)

LABOR ON-COST % XB-1 X

LABOR ON-COST 2149763

NOT PROJECT TOTAL CHARGES

4/20/2004 » budget manager: P... 11:49AM

NOTE: USED TO CALCULATE LABOR ON-COST %

Dept	Expense Categ...		FY05 Upd04 RA
InfoTech	Labor	C	$6,241,212
	Materials	A	$314,204
	On-Costs	C	$2,875,047
	Other		$1,761,191
	Outside Svcs		$3,311,618
	Transportation		$23,040
			$14,526,312

MATERIAL	A	314,204
MATERIAL ON COST %		x B-2 x .0915
MATERIAL ON COST		28,750
TOTAL ON COST	B	2,875,047
LABOR ON-COST		2,746,297
LABOR BASE	C	6,241,212
LABOR ON-COST %		45.6%
		xB

B-1

On-Costs and Vehicle Rates

On-Cost	2004 Budget Rates	1/1/2004 Recorded Rates	2/1/2004 Recorded Rates	4/1/2004 Recorded Rates	Preliminary 2005 Budget Rates
Payroll Taxes	8.51%	8.51%	8.51%	8.51%	8.42%
Employee Benefits	$6.25	$9.38	$5.96	$5.96	$6.46
Non-Productive Wages	$4.44	$4.44	$4.44	$4.44	$3.84
Corporate Administration	$2.76	$2.89	$2.74	$2.74	$2.86
Customer Engineering	$113.55	$119.53	$100.00	$90.00	~~$98.56~~
Stores	12.00%	12.55%	10.70%	10.70%	9.15%
Energy Delivery	$26.80	$28.22	$27.75	$27.75	$26.88
Power Supply	$6.38	$6.72	$6.24	$6.24	$6.70
Vehicles					
Heavy Trucks (VH)	$12.50	$12.47	$16.39		$12.50
Medium Trucks (VM)	$8.50	$9.45	$12.53		$8.75
Light Trucks (VL)	$5.50	$5.08	$4.98		$5.50
Sedans (VS)	$2.75	$1.89	$2.79		$2.50
Condor 150I (VC)	$58.25	$31.79	$37.32		$59.25
Misc (VZ)	$1.50	$1.26	$1.55		$1.50
Caterpillar (VX)	$4.25	$2.25	$2.61		$4.25

x B-1

Productive labor is labor less non-productive hours such as holiday, sick, vacation, etc.

Effective 1/1/01, there are no recorded vehicle rates. Instead, transportation clearing costs are allocated monthly to (1) assigned vehicles based on 8 hours per day, Monday through Friday, excluding holidays and (2) pool vehicles based on actual usage.

-GES

'R300 NPUpd - Exp Category $ 9:12AM

	FY05 Upd04 RA	Expense Category
730	$7,796	Labor
ll 777	$2,365	Labor
	$32,484	Labor
ps enh 891	$27,287	Labor
5	$10,395	Labor
	$20,790	Labor
897	$11,694	Labor
898	$9,096	Labor
st asst 901	$10,395	Labor
t asst 901	$44,648	Labor
cst 701	$12,234	Labor
Anl Perf 721	$41,673	Labor
Procur Pgm 840	$6,117	Labor
quip-clrg 842	$9,757	Labor
acts-clrg 844	$47,900	Labor
ontracts-clrg 844	$24,468	Labor
901	$51,605	Labor
ustomer assistance-clrg 901	$295,533	Labor
st asst-clrg 901	$183,913	Labor
st 701	$17,367	Labor
21	$8,435	Labor
rat 722	$8,435	Labor
30	$18,351	Labor
Trng & Dev 785	$8,435	Labor
ing 789	$55,436	Labor
mp apps-new 890	$221,746	Labor
mp apps-enh 891	$76,911	Labor
mp apps-enhanced 891	$1,532,721	Labor
ist Assist 901	$18,351	Labor
in mainframe 895	$13,894	Labor
main mainframe 895	$216,509	Labor
ain mainframe 895	$63,476	Labor

SEE HOURS/ EMPLOYEES ON WORKPAPER B-4

Version: Mar04

Dept	*RA #	*Act #	*Ind #	*Loc #	*Proj #	*EE #	Line item	FY05 Upd04 RA	Expense Category
InfoTech	PEI	895	NC	PHE	NPEZZZZZ	150	TC oper & main mainframe 895	$242,391	Labor
InfoTech	PEI	896	NC	PHE	NPEZZZZZ	150	FS oper & main LAN 896	$46,147	Labor
InfoTech	PEI	896	NC	PHE	NPEZZZZZ	150	I oper & main LAN 896	$50,561	Labor
InfoTech	PEI	896	NC	PHE	NPEZZZZZ	150	TC oper & main LAN 896	$423,611	Labor
InfoTech	PEI	897	NC	PHE	NPEZZZZZ	150	TC oper & main desktop 897	$116,225	Labor
InfoTech	PEI	897	NC	PHE	NPEZZZZZ	150	I oper & maint desktop 897	$45,239	Labor
InfoTech	PEI	897	NC	PHE	NPEZZZZZ	150	FS oper & main desktop 897	$32,253	Labor
InfoTech	PEI	900	NC	PHE	NPEZZZZZ	150	I op desk top offc telecom 900	$44,056	Labor
InfoTech	PEP	700	NC	PHE	NPEZZZZZ	150	FS dev & adm bus plans 700	$4,466	Labor
InfoTech	PEP	700	NC	PHE	NPEZZZZZ	150	TC dev & adm bus plans 700	$10,323	Labor
InfoTech	PEP	701	NC	PHE	NPEZZZZZ	150	TC dev & mg fcst 701	$51,613	Labor
InfoTech	PEP	722	NC	PHE	NPEZZZZZ	150	TC org dev strat 722	$20,645	Labor
InfoTech	PEP	722	NC	PHE	NPEZZZZZ	150	FS org dev strat 722	$8,932	Labor
InfoTech	PEP	730	NC	PHE	NPEZZZZZ	150	TC research new tech 730	$77,229	Labor
InfoTech	PEP	730	NC	PHE	NPEZZZZZ	150	FS rsrch new technology 730	$57,063	Labor
InfoTech	PEP	765	NC	PHE	NPEZZZZZ	150	FS empl pol prac proc 765	$4,466	Labor
InfoTech	PEP	785	NC	PHE	NPEZZZZZ	150	FS performance appraisals 785	$4,466	Labor
InfoTech	PEP	789	NC	PHE	NPEZZZZZ	150	TC attend training - local 789	$5,352	Labor
InfoTech	PEP	890	NC	PHE	NPEZZZZZ	150	TC develop apps - new 890	$20,645	Labor
InfoTech	PEP	891	NC	PHE	NPEZZZZZ	150	TC maintain apps - enhances 891	$211,041	Labor
InfoTech	PEP	896	NC	PHE	NPEZZZZZ	150	TC op and maintain LAN 896	$51,613	Labor
InfoTech	PEP	906	NC	PHE	NPEZZZZZ	150	TC plan the Sys Telecom 906	$66,906	Labor
InfoTech	PEP	906	NC	PHE	NPEZZZZZ	150	FS telecom-man, engr, design 906	$8,932	Labor
InfoTech								$4,714,393	Labor
InfoTech	PEA	901	NC	PHE	NPEZZZZZ	205	Materials-misc, cells,.pagers <EA>	$42,500	Materials BASED on HISTORY
InfoTech	PEI	895	NC	PHE	NPEZZZZZ	201	Laser forms <Eo>	$19,404	Materials
InfoTech	PEI	895	NC	PHE	NPEZZZZZ	201	Laser supplies <Eo>	$4,000	Materials
InfoTech	PEI	895	NC	PHE	NPEZZZZZ	201	Micr toner forms <Eo>	$7,000	Materials
InfoTech	PEI	895	NC	PHE	NPEZZZZZ	201	Tapes	$1,500	Materials
InfoTech	PEI	896	NC	PHE	NPEZZZZZ	201	Cabling <ES>	$7,200	Materials
InfoTech	PEI	897	NC	PHE	NPEZZZZZ	201	PC hdwre purchases <EI>	$24,000	Materials
InfoTech								$105,604	Materials

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Dept	*RA #	*Act #	*Ind #	*Loc #	*Proj #	*EE #	Line item	FY05 Upd04 RA	Expense Category
InfoTech	PEA	749	NC	PHE	NPEZZZZZ	515	UTC Dues 1/2 2004-2005	$3,200	Other
InfoTech	PEA	749	NC	PHE	NPEZZZZZ	520	Travel - mainland	$6,000	Other
InfoTech	PEA	749	NC	PHE	NPEZZZZZ	520	Conferences - Maintain Industry Relations	$9,500	Other
InfoTech	PEA	749	NC	PHE	NPEZZZZZ	521	Travel - mainland meals/ent	$500	Other
InfoTech	PEA	891	NC	PHE	NPEZZZZZ	461	Consultants-applications dev <ED>	$140,000	Other
InfoTech	PEA	901	NC	PHE	NPEZZZZZ	461	Consulting <ED>	$70,000	Other
InfoTech	PEA	901	NC	PHE	NPEZZZZZ	461	Gartner Fees	$35,000	Other
InfoTech	PEA	901	NC	PHE	NPEZZZZZ	522	Travel - neighbor island	$3,800	Other
InfoTech	PED	890	NC	PHE	NPEZZZZZ	462	PC Software Products - New App Devl & Enhance	$45,000	Other
InfoTech	PED	891	NC	PHE	NPEZZZZZ	463	Software Prod Application Maint - sybase-power bldr	$1,500	Other
InfoTech	PEI	896	NC	PHE	NPEZZZZZ	462	Mcafee license <EI>	$90,000	Other
InfoTech	PEI	896	NC	PHE	NPEZZZZZ	570	Network data circuits <ES>	$150,000	Other
InfoTech	PEI	897	NC	PHE	NPEZZZZZ	462	Misc software & Verisign @$3K <EC>	$8,500	Other
InfoTech	PEI	897	NC	PHE	NPEZZZZZ	462	Remedy's Change Management 2005B Add	$90,000	Other
InfoTech	PEI	900	NC	PHE	NPEZZZZZ	570	HECO trunks <ES>	$178,800	Other
InfoTech	PEI	915	NC	PHE	NPEZZZZZ	900	Expanet & Koolau & generator maint <EI>	$349,713	Other
InfoTech								$1,181,513	Other
InfoTech	PEA	789	NC	PHE	NPEZZZZZ	501	Education & Training	$50,000	Outside Svcs
InfoTech	PED	891	NC	PHE	NPEZZZZZ	501	Middleware Maintenance	$55,200	Outside Svcs
InfoTech	PED	891	NC	PHE	NPEZZZZZ	501	Bell&Howell transformer/ Grp 1 Cd 1 SW Maintenance	$32,900	Outside Svcs
InfoTech	PEI	795	NC	PHE	NPEZZZZZ	501	Safety shoes <Eo>	$1,000	Outside Svcs
InfoTech	PEI	895	NC	PHE	NPEZZZZZ	501	IBM laser printers <Eo>	$79,263	Outside Svcs
InfoTech	PEI	895	NC	PHE	NPEZZZZZ	501	Mainframe hardware maintenance <Eo>	$193,015	Outside Svcs
InfoTech	PEI	895	NC	PHE	NPEZZZZZ	501	UPS & generator maintenance <Eo>	$33,600	Outside Svcs
InfoTech	PEI	895	NC	PHE	NPEZZZZZ	501	CPU (Z800 2066 OC1) Lease <Eo>	$156,516	Outside Svcs
InfoTech	PEI	895	NC	PHE	NPEZZZZZ	501	Disaster Recovery for Enterprise Server < Eo>	$65,052	Outside Svcs
InfoTech	PEI	895	NC	PHE	NPEZZZZZ	501	Mainframe Software <Eo>	$528,261	Outside Svcs
InfoTech	PEI	895	NC	PHE	NPEZZZZZ	501	IBM Software <Eo>	$393,384	Outside Svcs
InfoTech	PEI	895	NC	PHE	NPEZZZZZ	501	HEI Fees for Internet (2004 contains increm incr only)	$82,706	Outside Svcs
InfoTech	PEI	895	NC	PHE	NPEZZZZZ	501	HEI Fees for Spam (Big Fish) Filtering Charges	$30,000	Outside Svcs
InfoTech	PEI	896	NC	PHE	NPEZZZZZ	501	MS premier support fees <EI>	$141,000	Outside Svcs
InfoTech	PEI	896	NC	PHE	NPEZZZZZ	501	Network Equipment Maintenance <EI>	$250,000	Outside Svcs

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Dept	*RA #	*Act #	*Ind #	*Loc #	*Proj #	*EE #	Line Item		FY05 Upd04 RA	Expense Category	
InfoTech	PEI	896	NC	PHE	NPEZZZZZ	501	10 ISDN Phones		$4,800	Outside Svcs	Based on History
InfoTech	PEI	897	NC	PHE	NPEZZZZZ	501	MEA for HECO	<EC>	$311,000	Outside Svcs	
InfoTech	PEI	897	NC	PHE	NPEZZZZZ	501	PC maintenance	<EI>	$374,400	Outside Svcs	
InfoTech	PEI	898	NC	PHE	NPEZZZZZ	501	EFMS maint (Intergraph)	<EI>	$275,000	Outside Svcs	
InfoTech	PEI	900	NC	PHE	NPEZZZZZ	501	Generator propane	<EI>	$540	Outside Svcs	
InfoTech	PEI	900	NC	PHE	NPEZZZZZ	501	Moves, adds, chgs	<EI>	$6,000	Outside Svcs	
InfoTech	PEI	900	NC	PHE	NPEZZZZZ	501	Long Distance Charges	<ES>	$20,000	Outside Svcs	
InfoTech	PEI	900	NC	PHE	NPEZZZZZ	501	Directory Listing	<EI>	$7,200	Outside Svcs	
InfoTech									$3,090,837	Outside Svcs	
InfoTech	PEA	901	NC	PHE	NPEZZZZZ	301	Car pools		$1,260	Transportation	Based on History
InfoTech									$1,260	Transportation	
									$9,093,607		

HOURS / EMPLOYEES - "NC" CHARGES

12/22/2004 » budget manager: PR110H NPUpd - Det... 1:06PM

*R...	*Ac...	*Lo...	*In...	*Proj #	*E...	*Lbr Class	Line item	HOURS FY05 Upd04 RA	EMPLOYEE
PEA	730	PHE	NC	NPEZZ...	150	__E	E res new tech 730	144	
PEA	890	PHE	NC	NPEZZ...	150	__E	E dev-new 890	600	
PEA	891	PHE	NC	NPEZZ...	150	__E	E dev comp apps enh 891	504	
PEA	895	PHE	NC	NPEZZ...	150	__E	E mainframe 895	192	
PEA	896	PHE	NC	NPEZZ...	150	__E	E LAN 896	384	
PEA	897	PHE	NC	NPEZZ...	150	__E	E desktop-bus 897	216	
PEA	898	PHE	NC	NPEZZ...	150	__E	E desktop-tech 898	168	
PEA	901	PHE	NC	NPEZZ...	150	__E	E provide IT cust asst 901	192	
PEA							ITS CHIEF INFORMATION OFFICER	2,400	1
PEA	777	PHE	NC	NPEZZ...	150	__I	I process payroll 777	96	
PEA	901	PHE	NC	NPEZZ...	150	__I	I provide IT cust asst 901	1,812	
PEA							ITS SECRETARY	1,908	1
PEC	901	PHE	NC	NPEZZ...	150	__FS	FS IT cust asst 901	1,248	
PEC	965	PHE	NC	NPEZZ...	150	__FS	FS dev mng fcst 701	420	
PEC	966	PHE	NC	NPEZZ...	150	__FS	FS maint rel 721	204	
PEC	967	PHE	NC	NPEZZ...	150	__FS	FS Org Dev Strat 722	204	
PEC							DIRECTOR - CUSTOMER CARE	2,076	1
PEC	842	PHE	NC	NPEZZ...	150	__I	I order mat'ls equip-clrg 842	396	
PEC	844	PHE	NC	NPEZZ...	150	__I	I prepare contracts-clrg 844	1,944	
PEC	901	PHE	NC	NPEZZ...	150	__I	I provide IT cust asst-clrg 901	7,464	
PEC							SPECIALISTS	9,804	5
PEC	701	PHE	NC	NPEZZ...	150	__TC	TC Dev Mnge Fcst 701	384	
PEC	721	PHE	NC	NPEZZ...	150	__TC	TC Dev Meas & Anl Perf 721	1,308	
PEC	840	PHE	NC	NPEZZ...	150	__TC	TC Admin Oth Procur Pgm 840	192	
PEC	844	PHE	NC	NPEZZ...	150	__TC	TC prep/mge contracts-clrg 844	768	
PEC	901	PHE	NC	NPEZZ...	150	__TC	TC provide it customer assistance-clrg...	9,276	
PEC							CONSULTANTS / ANALYSTS	11,928	6
PED	785	PHE	NC	NPEZZ...	150	__FS	FS Plan Emp Trng & Dev 785	204	
PED	891	PHE	NC	NPEZZ...	150	__FS	FS develop comp apps-enh 891	1,860	
PED							DIRECTOR - DEVELOPMENT SERVICES	2,064	1
PED	730	PHE	NC	NPEZZ...	150	__TC	TC new tech 730	576	
PED	789	PHE	NC	NPEZZ...	150	__TC	TC attend training 789	1,740	
PED	890	PHE	NC	NPEZZ...	150	__TC	TC develop comp apps-new 890	6,960	
PED	891	PHE	NC	NPEZZ...	150	__TC	TC develop comp apps-enhanced 891	48,108	
PED	901	PHE	NC	NPEZZ...	150	__TC	TC Prov IT Cust Assist 901	576	
PED							LEAD ANALYSTS / SPECIALISTS	57,960	30
PEI	895	PHE	NC	NPEZZ...	150	__BUOC	BUOC oper & main mainframe 895	9,120	
PEI							OPERATORS	9,120	5
PEI	895	PHE	NC	NPEZZ...	150	__FS	FS oper & main mainframe 895	336	
PEI	896	PHE	NC	NPEZZ...	150	__FS	FS oper & main LAN 896	1,116	
PEI	897	PHE	NC	NPEZZ...	150	__FS	FS oper & main desktop 897	780	
PEI							DIRECTOR - INFRASTRUCTURE & OPERATIONS	2,232	1
PEI	896	PHE	NC	NPEZZ...	150	__I	I oper & main LAN 896	2,052	

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12/22/2004 » budget manager: PR110H NPUpd - Det... 1:06PM

*R...	*Ac...	*Lo...	*In...	*Proj #	*E...	*Lbr Class	Line item	FY05 Upd04 RA (HOURS)	EMPLOYEE
PEI	897	PHE	NC	NPEZZ...	150	__I	I oper & maint desktop 897	1,836	
PEI	900	PHE	NC	NPEZZ...	150	__I	I op desk top offc telecom 900	1,788	
PEI							SPECIALISTS/COORDINATOR	5,676	3
PEI	895	PHE	NC	NPEZZ...	150	__TC	TC oper & main mainframe 895	7,608	
PEI	896	PHE	NC	NPEZZ...	150	__TC	TC oper & main LAN 896	13,296	
PEI	897	PHE	NC	NPEZZ...	150	__TC	TC oper & main desktop 897	3,648	
PEI							LEAD/ADMINISTRATOR/ANALYSTS	24,552	12
PEI	895	PHE	NC	NPEZZ...	150	__TCS	TCS oper & main mainframe 895	2,028	
PEI							SUPERVISOR	2,028	1
PEP	700	PHE	NC	NPEZZ...	150	__FS	FS dev & adm bus plans 700	108	
PEP	722	PHE	NC	NPEZZ...	150	__FS	FS org dev strat 722	216	
PEP	730	PHE	NC	NPEZZ...	150	__FS	FS rsrch new technology 730	1,380	
PEP	765	PHE	NC	NPEZZ...	150	__FS	FS empl pol prac proc 765	108	
PEP	785	PHE	NC	NPEZZ...	150	__FS	FS performance appraisals 785	108	
PEP	906	PHE	NC	NPEZZ...	150	__FS	FS telecom-man, engr, design 906	216	
PEP							DIRECTOR-PROJECT & BUS MGT	2,136	1
PEP	700	PHE	NC	NPEZZ...	150	__TC	TC dev & adm bus plans 700	324	
PEP	701	PHE	NC	NPEZZ...	150	__TC	TC dev & mg fcst 701	1,620	
PEP	722	PHE	NC	NPEZZ...	150	__TC	TC org dev strat 722	648	
PEP	730	PHE	NC	NPEZZ...	150	__TC	TC research new tech 730	2,424	
PEP	789	PHE	NC	NPEZZ...	150	__TC	TC attend training - local 789	168	
PEP	890	PHE	NC	NPEZZ...	150	__TC	TC develop apps - new 890	648	
PEP	891	PHE	NC	NPEZZ...	150	__TC	TC maintain apps - enhances 891	6,624	
PEP	896	PHE	NC	NPEZZ...	150	__TC	TC op and maintain LAN 896	1,620	
PEP	906	PHE	NC	NPEZZ...	150	__TC	TC plan the Sys Telecom 906	2,100	
PEP							LEAD	16,176	9
								150,060	77

B-4

PROJECT "NC" CHARGES

FROM PROJECT FILE
INDICATOR = NC

4/20/2004 » budget manager: PR9100-P: Summa... 11:34AM

*Project #	Project	*M-Proj #	Curr Upd New Total $	Proj to Date Act $	FY05 UPDATE04
P0000040	EFMS Program	P0000040	$3,780,000	0	$800,000
		R0003012	$25,234	$25,234	0
		R0003621	$79,981	$79,981	0
		R0003624	$65,116	$65,116	0
		R0003625	$168,320	$168,320	0
		R0003627	-$14,583	-$14,583	0
		R0003628	$31,662	$31,662	0
		R0004779	$35,110	$35,110	0
		R0004780	$13,263	$13,263	0
		R0004884	$0	$0	0
		R0004885	$63,305	$63,305	0
		R0004886	$38,964	$38,964	0
		R0004887	$38,964	$38,964	0
		R0004888	$38,964	$38,964	0
		R0005500	$12,188	$12,188	0
		R0005749	$28,100	$28,100	0
		R0006579	$54,938	$54,938	0
		R0006598	$26,880	$26,880	0
		R0009382	$4	$4	0
		R0009383	$7,486	$7,486	0
			$4,493,893	$713,893	$800,000
P0000427	e-Bus HECOcom Proje...		$24,827	0	$18,300
		P0000427	$2,721,233	$50,233	$740,000
			$2,746,060	$50,233	$758,300
P0000868	Middleware Implementa...		$50,311	0	$7,842
		P0000868	$425,727	0	$55,771
			$476,039	0	$63,613
			$7,715,992	$764,126	$1,621,913

C

HECO IT Costing Estimates for 2005-2006 for HELCO

HELCO - IT COSTING SYSTEM DIRECT CHARGE

DIRECT CHARGES

Dist.	Project #	WO #		Account Code					Estimate 2005	Estimate 2006	
HELC			H9P	700	HEL	NE	NHAPRESI	451	1,143	1,143	
HELC			HAA	701	HEL	NE	NHAZZZZZ	451	1,714	1,714	
HELC			HAA	818	HEL	NE	NHAZZZZZ	451	1,714	1,714	
HELC			HAC	818	HEL	NE	NHAZZZZZ	451	3,727	3,727	
HELC			HAK	604	HAK	NE	NHAZZZZZ	451	5,407	5,407	
HELC			HAP	817	HEL	NE	NHAZZZZZ	451	2,285	2,285	
HELC			HDA	965	HED	NC	NHDZZZZZ	451	7,013	7,013	
HELC			HDC	603	HAH	NE	NHDZZZZZ	451	15,328	15,328	
HELC			HDR	455	HED	NC	NHDZZZZZ	451	3,428	3,428	
HELC			HDR	600	HAH	NE	NHDZZZZZ	451	3,428	3,428	
HELC			HGA	211	ANS	NS	NHGZZZZZ	451	3,620	3,620	
HELC			HNA	775	HEL	NE	NHNZZZZZ	451	1,299	1,299	
HELC			HNL	928	HEL	NE	NHNZZZZZ	451	1,517	1,517	
HELC		CS000024	HCS	112	HEL	NE	NHCZZZZZ	451	6,040	6,040	
HELC		CS000101.	HCE	750	HEL	NE	NHCZZZZZ	451	1,143	1,143	
HELC		CS000274	HAW	604	HEL	NE	NHAZZZZZ	451	8,448	8,448	
HELC		CS000317	HAK	604	HAK	NE	NHAZZZZZ	451	17,470	17,470	
HELC		CS000347	HAS	604	HAH	NE	NHAZZZZZ	451	32,863	32,863	
HELC		CS000431	HCB	711	HEL	NE	H0000004	451	3,802	3,802	
HELC		EE000629	HWA	408	HED	NC	NHWZZZZZ	451	49,364	49,364	
HELC		FI000043	HAC	818	HEL	NE	NHAZZZZZ	451	6,186	6,186	
HELC		HR000258	HNP	778	HEL	NE	NHNZZZZZ	451	30,450	30,450	FBF App labor
HELC		HR000259	HNP	779	HEL	NE	NHNZZZZZ	451	1,800	1,800	FBH App labor
HELC		HR000260	HNP	779	HEL	NE	NHNZZZZZ	451	600	600	FBP App labor
HELC		HR000261	HNP	776	HEL	NE	NHNZZZZZ	451	450	450	FBS App labor
HELC		HR000262	?	?	?	?	?	451	7,500	7,500	FCC App labor
HELC		HR000264	?	?	?	?	?	451	600	600	FP App labor
HELC	C0000929		HCI	714	HEL	NE	H0000002	451	5,588	5,588	
HELC	C0000939		HCI	714	HEL	NE	H0000001	451	2,411	2,411	
							TOTAL		226,338	226,338	

NA

INTERCOMPANY BILLABLE (ICB) CHARGES

Dist.	Project #	WO #		Account Code					2005	2006	
HECO		HR000238	PFC	775	HEL	NE	NPFZZZZZ	451	2,574	2,574	PFC Desktop
							TOTAL		2,574	2,574	

D

Murakami, Blane

From: Inouye, Juliane
Sent: Tuesday, April 20, 2004 1:34 PM
To: Murakami, Blane
Subject: FW: 2005-2006 ITCosting Estimates for HELCO

From: Inouye, Juliane
Sent: Tuesday, March 16, 2004 10:16 AM
To: Fujioka, Paul
Cc: Young, Patti; Tobara, Bryce
Subject: 2005-2006 ITCosting Estimates for HELCO

Paul,

Attached are HECO's ITS Costing Estimates for 2005 and 2006. As in the past, all estimates except for those marked "App Labor" are based on last year's actual charges. The App labor estimates are projections. Note that although most Benefits and Compensation charges were App labor charges are now being direct charged, one charge will continue to be processed through intercompany billing.

In addition, completed Inercompany Service Forms for Records Management and Microsoft MEA are being mailed to you today.

Please feel free to call me if you have any questions.

Thank you,

Juliane Inouye
HECO - ITS Dept.
ph. 808-543-7135

D-1

HECO IT Costing Estimates for 2005-2006 for MECO

MECO - IT COSTING SYSTEM DIRECT CHARGE

DIRECT CHARGES

Dist.	Project #	WO #		Account Code					Estimate 2005	Estimate 2006	
MECO			M9P	700	MAU	NE	NMAZZZZZ	451	2,439	2,439	
MECO			MAA	612	MAU	NE	NMAZZZZZ	451	1,143	1,143	
MECO			MAA	818	MAU	NE	NMAZZZZZ	451	1,105	1,105	
MECO			MAB	612	MAU	NE	NMAZZZZZ	451	3,428	3,428	
MECO			MAG	612	MAU	NE	NMAZZZZZ	451	1,439	1,439	
MECO			MCT	604	MAM	NE	NMCZZZZZ	451	4,571	4,571	
MECO			MDK	620	MAU	NE	NMDZZZZZ	451	1,615	1,615	
MECO			MDM	603	MAU	NE	NMDZZZZZ	451	8,745	8,745	
MECO			MDR	618	MAU	NE	NMDZZZZZ	451	13,042	13,042	
MECO			MGA	899	NST	NC	NMGZZZZZ	451	2,409	2,409	
MECO			MSP	778	MAU	NE	NMSZZZZZ	451	1,887	1,887	
MECO			MWA	901	MAU	NC	NMWZZZZZ	451	10,847	10,847	
MECO			MWC	600	MAU	NC	NMWZZZZZ	451	2,285	2,285	
MECO			MWP	600	MAU	NC	NMWZZZZZ	451	19,426	19,426	
MECO			MWS	600	MAU	NC	NMWZZZZZ	451	3,428	3,428	
MECO		CS000027	MCN	112	MAU	NE	NMCZZZZZ	451	26,282	26,282	
MECO		CS000096	MCM	610	MAU	NE	NMCZZZZZ	451	3,132	3,132	
MECO		CS000153	MCA	604	MAU	NE	NMCZZZZZ	451	11,085	11,085	
MECO		CS000158	MCR	604	MAU	NE	NMCZZZZZ	451	17,140	17,140	
MECO		HR000132	MSP	779	MAU	NE	NMSZZZZZ	451	620	620	FP App labor
MECO		HR000133	MSP	775	MAU	NE	NMSZZZZZ	451	7,500	7,500	FCC App labor
MECO		HR000135	MSP	778	MAU	NE	NMSZZZZZ	451	31,262	31,262	FBF App labor
MECO		HR000144	MSP	779	MAU	NE	NMSZZZZZ	451	1,856	1,856	FBH App labor
MECO		HR000199	MSP	776	MAU	NE	NMSZZZZZ	451	462	462	FBS App labor
MECO		HR000232	MSP	779	MAU	NE	NMSZZZZZ	451	620	620	FBP App labor
							TOTAL		177,768	177,768	

YA

INTERCOMPANY BILLABLE (ICB) CHARGES

Dist.	Project #	WO #		Account Code					2005	2006	
HECO		HR000240	PFC	775	HEL	NE	NPFZZZZZ	451	2,574	2,574	PFC Desktop
							TOTAL		2,574	2,574	

D-1

Murakami, Blane

From: Inouye, Juliane

To: Murakami, Blane
Subject: FW: 2005-2006 ITCosting Estimates for MECO

From: Inouye, Juliane
Sent: Tuesday, March 16, 2004 10:24 AM
To: Matsunaga, Lyle
Cc: Matsumura, Joyce; Young, Patti; Tobara, Bryce
Subject: 2005-2006 ITCosting Estimates for MECO

Lyle,

Attached are our ITS Costing Estimates for 2005 and 2006. As in the past, all estimates except for those marked "App Labor" are based on last year's actual charges. The App labor estimates are projections. Note that although most Benefits and Compensation charges were App labor charges are now being direct charged, one charge will continue to be processed through intercompany billing.

Completed Intercompany Service forms for Microsoft MEA and Customer Service (CB) are being mailed to you. We also completed for and sent IS forms to Monica Lynch and Wendy Nathan (they requested that their forms be sent directly to them) One of Wendy's forms is for the ICB charge ($2,574/yr) shown in the attached spreadsheet.

Please feel free to call me if you have any questions.

Thank you,

Juliane Inouye
HECO - ITS Dept.
ph. 808-543-7135

NON-ITS PROJECT - EXPENSE ELEMENT 451 CHARGES

PROJ
LINDA
YAMAMOTO

*Project #	Project	*M-Proj #	ProjMgrOrEngr	*RA #	*Ind #	*EE #	FY05	FY05 Adj
P0000318	Project Ellipse	P0000318	Noda, R	PEZ	BE	451	-	
P0000318	Project Ellipse	P0000318	Noda, R	PEZ	NE	451	-	
P0000318							-	-
P0000350	Field Service System Replacement	P0000350	Oda, W	PEZ	NI	451	-	
P0000350							-	-
P0000502	Waiau Minor Gen Addns	P0000502	Nakano, W	PEZ	NI	451	48	
P0000502							48	2,400
P0000503	Ward Ave Minor Addns	P0000503	Nakano, W	PEZ	NI	451	96	
P0000503							96	4,800
P0000504	King St Minor Addns	P0000504	Nakano, W	PEZ	NI	451	48	
P0000504							48	2,400
P0000571	CIS Replacement	P0000571	Hull, Thomas	PEZ	BD	451	78,813	
P0000571	CIS Replacement	P0000571	Hull, Thomas	PEZ	BE	451	23,037	
P0000571	CIS Replacement	P0000571	Hull, Thomas	PEZ	ND	451	172,987	
P0000571	CIS Replacement	P0000571	Hull, Thomas	PEZ	NE	451	50,563	
P0000571							325,400	325,400
P0000825	C&M Renovation	P0000825	Nakano, W	PEZ	NI	451	120	
P0000825							120	6,000
P0000826	ITS Renovation	P0000826	Nakano, W	PEZ	NI	451	-	
P0000826							-	-
P0000851	Purchasing Warehouse Renov	P0000851	Nakano, W	PEZ	NI	451	-	
P0000851							-	-
P0000878	Check Processing Upgrade	P0000878	Ejercito, A	PEZ	NE	451	-	
P0000878							-	-
00896	Finance Plus Replacement		Takamura, J	PEZ	NE	451	-	
00896							-	-
P0000907	PLC Market Trial		Nordyke, M	PEZ	NE	451	154,800	
P0000907							154,800	154,800
P0000984	Promote e-Customer Service		Ejercito, A	PCA	NE	451	12,000	
[illegible]							12,000	12,000
P0000985	Bill Payment System/ATM Proj		Ejercito, A	PCA	NE	451	6,000	
P0000985	Bill Payment System/ATM Proj		Ejercito, A	PCA	NI	451	-	
P0000985							6,000	6,000
P0000986	GPS (Global Posit. Sys.)		Ejercito, A	PCA	NE	451	4,000	
P0000986	GPS (Global Posit. Sys.)		Ejercito, A	PCA	NI	451	-	
P0000986							4,000	4,000
P0000987	3rd Party Pay Solutions		Ejercito, A	PCA	NE	451	-	
P0000987							-	-
P0000988	ACCESS (solutions to issues)		Ejercito, A	PCA	NE	451	10,000	
P0000988	ACCESS (solutions to issues)		Ejercito, A	PCA	NI	451	-	
P0000988							10,000	10,000
P0001010	HR/Benefits/Comp Suite		Price, J	PEZ	BE	451	46,560	
P0001010	HR/Benefits/Comp Suite		Price, J	PEZ	NE	451	100,290	
P0001010							146,850	146,850
Security11	Temp Proj Security11_		Uemura, E	PEZ	NE	451	12,700	
Security11_							12,700	12,700
[illegible]00828	Outage Management System	P0000828	Naito, C	PEZ	ND	451	16,494	
00828	Outage Management System	P0000828	Naito, C	PEZ	NE	451	-	
P0000828	Outage Management System	P0000828	Naito, C	PEZ	NI	451	5,164	
P0000828	Outage Management System	P0000828					21,658	21,658
								709,008

YA

E

Murakami, Blane

From: Yamamoto, Linda
Sent: Thursday, April 15, 2004 12:43 PM

Cc: Young, Patti; Shimabukuro, Gail
Subject: RE: ITS cost reports aka EE451 reports

)415 ITS Upd Costs EDProj.ASC)415 ITS Upd Costs NEDProj.ASC...

Attached are your reports for the Update.

-----Original Message-----
From: Murakami, Blane
Sent: Thursday, April 15, 2004 11:08 AM
To: Yamamoto, Linda
Cc: Young, Patti; Shimabukuro, Gail
Subject: RE: ITS cost reports aka EE451 reports

Would you send me an update of the ascii files below (based on Pillar inputs submitted on April 12). I would like to review the current EE451 estimates to determine if changes to ITS's 2005 Budget PEZ estimates are required.

Thanks.

-----Original Message-----
From: Yamamoto, Linda
Sent: Friday, February 13, 2004 9:48 AM
To: Murakami, Blane
Cc: Young, Patti; Takahashi, Cynthia
Subject: RE: ITS cost reports aka EE451 reports

<< File: 0212 ITS Bud Costs EDProj.ASC >> << File: 0212 ITS Bud Costs NEDProj.ASC >> << File: 0212 ITS Upd Costs EDProj.ASC >> << File: 0212 ITS Upd Costs NEDProj.ASC >>

Attached are the reports you requested. Let me know if you have any questions.

Linda

-----Original Message-----
From: Murakami, Blane
Sent: Friday, February 13, 2004 9:16 AM
To: Yamamoto, Linda
Cc: Young, Patti; Takahashi, Cynthia
Subject: FW: ITS cost reports aka EE451 reports

Would you be able to provide the reports below based on the current Pillar inputs (as of Feb 12). We call these the EE451 entries in ITS.

Thanks

-----Original Message-----
From: Yamamoto, Linda
Sent: Wednesday, August 27, 2003 11:34 AM
To: Murakami, Blane; Young, Patti; Takahashi, Cynthia
Subject: ITS cost reports

<< File: 0826 ED ITS Bud Costs 04-05.ASC >> << File: 0826 ED ITS Costs Aug-Dec03.ASC >> << File: 0826 NED ITS Bud Costs 04-05.ASC >> << File: 0826 NED ITS Costs Aug-Dec03.ASC >>

Attached are the ITS cost reports for 2003 Update (Aug-Dec) as well as 2004 and 2005 Budget.

Linda Yamamoto
543-7752

E-

2005 INTERCOMPANY BILLINGS

INTERCOMPANY BILLABLE PROJECTED FROM 2003 ACTUALS

*RA #	*Act #	*Loc #	*Ind #	*Project #	*EE #	Line Item	FY05
PEA	965	HEL	BE	NPEZZZZZ	521	H9P HELCO File Audit Rec ...	$180.00
PEA	965	HEL	BE	NPEZZZZZ	522	H9P HELCO File Audit Rec ...	$580.00
PEA	965	MAU	BE	NPEZZZZZ	521	MSA MECO File Audit Rec ...	$180.00
PEA	965	MAU	BE	NPEZZZZZ	522	MSA MECO File Audit Rec ...	$580.00
PED	711	HEL	BE	NPEZZZZZ	452	HEL billable Dev Sup for HE...	$2,000.00
PEI	895	FCU	BE	NPEZZZZZ	451	HECO Federal Credit Union	$9,600.00
PEI	895	HEI	BE	NPEZZZZZ	451	HEI Stock Transfer Data Ce...	$23,376.00
PEI	897	HEL	BE	NPEZZZZZ	501	HAC MEA for HELCO ...	$60,000.00
PEI	897	MAU	BE	NPEZZZZZ	501	MAA MEA for MECO ...	$49,000.00
PEI	900	HEI	BE	NPEZZZZZ	501	HEI telecomm-HEI ...	$9,000.00
PEZ	700	RHI	BE	NPASVP7Z	451	RHI Billable	$1,070.00
PEZ	775	HEI	BE	NPFZZZZZ	451	PFC HEI Billable - Empl Co...	$2,544.00
PEZ	775	HEL	BE	NPFZZZZZ	451	PFC HEL Billable - Empl Co...	$2,544.00
PEZ	775	MAU	BE	NPFZZZZZ	451	PFC MAU Billable - Empl C...	$2,544.00
PEZ	776	HEI	BE	NPFZZZZZ	451	PFB - HEI Billable - Ben Pla...	$1,998.00
PEZ	776	HPC	BE	NPFZZZZZ	451	PFB HPC Billable - Ben Pla...	$87.00
PEZ	776	PEC	BE	NPFZZZZZ	451	PFB PEC Billable - Ben Pla...	$174.00
PEZ	778	HEI	BE	NPFZZZZZ	451	PFB HEI Billable - Adm Flex...	$1,045.00
PEZ	778	HPC	BE	NPFZZZZZ	451	PFB HPC Billable - Adm Fle...	$45.00
PEZ	778	PEC	BE	NPFZZZZZ	451	PFB PEC Billable - Adm Fle...	$91.00
PEZ	779	HEI	BE	NPFZZZZZ	451	PFB HEI Billable - Adm Reti...	$1,140.00
PEZ	779	HPC	BE	NPFZZZZZ	451	PFB HPC Billable - Adm Re...	$20.00
PEZ	779	PEC	BE	NPFZZZZZ	451	PFB PEC Billable - Adm Ret...	$40.00
PEZ	817	HEL	BE	NPAZZZZZ	451	HEL Billable	$0.00
PEZ	817	MAU	BE	NPAZZZZZ	451	MAU Billable	$0.00
PEZ	825	HEI	BE	NPKZZZZZ	451	PKT HEI Billable - Manage ...	$2,464.00
PEZ	825	HEL	BE	NPKZZZZZ	451	HEL Billable	$189.00
PEZ	825	MAU	BE	NPKZZZZZ	451	MAU Billable	$189.00
PEZ	826	HEL	BE	NPKZZZZZ	451	HEL Billable	$791.00
PEZ	826	MAU	BE	NPKZZZZZ	451	MAU Billable	$931.00
PEZ	891	HEI	BE	NPEZZZZZ	451	HEI Billable	$1,357.00
PEZ	895	HEL	BE	NPAVP2ZZ	451	P2V HEL Billable - Op & Ma...	$123,036.00
PEZ	895	MAU	BE	NPAVP2ZZ	451	P2V MAU Billable - Op & M...	$123,036.00

(HISTORY)

ITS Department
PEZ Actuals Jan-Dec 2003

2003 INTERCOMPANY BILLABLES

Co	Act	Loc	Ind	Proj	EE	Q1	Q2	Q3	Q4	FY 03	Mo Avg
PEZ	775	HEI	BE	NPFZZZZZ	451	670	637	648	588	2,544	212
PEZ	776	HEI	BE	NPFZZZZZ	451	1,357	416	91	134	1,998	167
PEZ	778	HEI	BE	NPFZZZZZ	451	198	264	176	408	1,045	87
PEZ	779	HEI	BE	NPFZZZZZ	451	400	267	169	305	1,140	95
PEZ	825	HEI	BE	NPKZZZZZ	451	641	616	632	574	2,464	205
PEZ	891	HEI	BE	NPEZZZZZ	451	0	1,357	0	0	1,357	113
PEZ	700	RHI	BE	NPASVP7Z	451	0	13,573	(12,503)	0	1,070	89
PEZ	776	PVT	BE	NPFZZZZZ	451	118	36	0	0	154	13
PEZ	778	PVT	BE	NPFZZZZZ	451	17	23	0	0	40	3
PEZ	779	PVT	BE	NPFZZZZZ	451	21	7	0	0	29	2
PEZ	776	PEC	BE	NPFZZZZZ	451	118	36	8	12	174	15
PEZ	778	PEC	BE	NPFZZZZZ	451	17	23	15	35	91	8
PEZ	779	PEC	BE	NPFZZZZZ	451	21	7	5	6	40	3
PEZ	776	HPC	BE	NPFZZZZZ	451	59	18	4	6	87	7
PEZ	778	HPC	BE	NPFZZZZZ	451	9	11	8	18	45	4
PEZ	779	HPC	BE	NPFZZZZZ	451	11	4	3	3	20	2
PEZ	775	MAU	BE	NPFZZZZZ	451	670	637	648	588	2,544	212
PEZ	775	HEL	BE	NPFZZZZZ	451	670	637	648	588	2,544	212
PEZ	776	MAU	BE	NPFZZZZZ	451	9,086	2,786	607	900	13,378	1,115
PEZ	776	HEL	BE	NPFZZZZZ	451	8,791	2,695	591	877	12,953	1,079
PEZ	778	MAU	BE	NPFZZZZZ	451	1,323	1,768	1,178	2,731	7,000	583
PEZ	778	HEL	BE	NPFZZZZZ	451	1,280	1,710	1,148	2,660	6,798	567
PEZ	779	MAU	BE	NPFZZZZZ	451	2,678	1,794	1,133	2,051	7,657	638
PEZ	779	HEL	BE	NPFZZZZZ	451	2,591	1,735	1,099	1,988	7,413	618
PEZ	817	MAU	BE	NPAZZZZZ	451	0	337	0	0	337	28
PEZ	817	HEL	BE	NPAZZZZZ	451	0	337	0	0	337	28
PEZ	825	MAU	BE	NPKZZZZZ	451	49	47	49	44	189	16
PEZ	825	HEL	BE	NPKZZZZZ	451	49	47	49	44	189	16
PEZ	826	MAU	BE	NPKZZZZZ	451	47	0	0	[illegible]	[illegible]	[illegible]
PEZ	826	HEL	BE	NPKZZZZZ	451	40	0	0	751	791	66
PEZ	895	MAU	BE	NPAVP2ZZ	451	27,447	31,510	25,052	39,027	123,036	10,253
PEZ	895	HEL	BE	NPAVP2ZZ	451	27,447	31,510	25,052	39,027	123,036	10,253

F-1

Hawaiian Electric Company, Inc.
Information Technology & Services Department
PEZ Actuals Jan- Dec 2003

2003 PEZ ACTUALS
ITS COSTING SYSTEM
ALLOCATIONS

RA	Act	Loc	Ind	Project	EE	Jan-Dec 03	Proportions
PEZ	100	PHE	NE	NPSZZZZZ	451	67,746	
	100 Total					67,746	0.7%
PEZ	102	PHE	NE	NPSZZZZZ	451	13,789	
	102 Total					13,789	0.2%
PEZ	110	PHE	NE	NPSZZZZZ	451	144,316	
PEZ	110	PHE	NE	NPEZZZZZ	451	0	
	110 Total					144,316	1.6%
PEZ	112	PHE	NE	NPSZZZZZ	451	75,064	
	112 Total					75,064	0.8%
PEZ	122	PHE	NE	**NPIZZZZZ**	451	54,438	
	122 Total					54,438	0.6%
PEZ	201	WST	NE	NPYZZZZZ	451	95,731	
	201 Total					95,731	1.0%
PEZ	210	WST	NC	NPYZZZZZ	451	0	
	210 Total					0	0.0%
PEZ	211	WST	NC	NPYZZZZZ	451	165,147	
PEZ	211	WST	NC	NPEZZZZZ	451	0	
	211 Total					165,147	1.8%
PEZ	212	KST	NE	NPAVP2ZZ	451	7,505	
	212 Total					7,505	0.1%
PEZ	220	WST	NE	**NPIZZZZZ**	451	18,952	
	220 Total					18,952	0.2%
PEZ	240	WST	NE	**NPIZZZZZ**	451	356,793	
PEZ	240	WST	NE	**NPYZZZZZ**	451	73,230	
	240 Total					430,023	4.7%
PEZ	242	KST	NE	**NPIZZZZZ**	451	31,586	
PEZ	242	WST	NE	**NPIZZZZZ**	451	26,078	
PEZ	242	HST	NE	**NPIZZZZZ**	451	18,952	
	242 Total					76,616	0.8%
PEZ	245	KST	NE	NPAVP2ZZ	451	11,935	
	245 Total					11,935	0.1%
PEZ	246	KST	NE	NPAVP2ZZ	451	9,966	
	246 Total					9,966	0.1%
PEZ	256	WST	NE	**NPIZZZZZ**	451	327,375	
PEZ	256	KST	NE	**NPIZZZZZ**	451	37,904	
PEZ	256	HST	NE	**NPIZZZZZ**	451	12,635	
	256 Total					377,914	4.1%
PEZ	258	KST	NE	NPAVP2ZZ	451	15,133	
	258 Total					15,133	0.2%
PEZ	261	KST	NE	NPAVP2ZZ	451	8,982	
	261 Total					8,982	0.1%
PEZ	307	OAH	NC	**NPBZZZZZ**	451	447,870	
PEZ	307	OAH	NC	**NPYZZZZZ**	451	57,309	
PEZ	307	OAH	NE	NPAVP2ZZ	451	13,082	
	307 Total					518,261	5.6%
PEZ	320	OAH	NE	NPAVP2ZZ	451	22,270	
	320 Total					22,270	0.2%
PEZ	325	OAH	NC	**NPRZZZZZ**	451	51,424	
	325 Total					51,424	0.6%
PEZ	326	OAH	NE	**NPRZZZZZ**	451	119,480	
	326 Total					119,480	1.3%

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Hawaiian Electric Company, Inc.
Information Technology & Services Department
PEZ Actuals Jan- Dec 2003

RA	Act	Loc	Ind	Project	EE	Jan-Dec 03	Proportions
PEZ	331	OAH	NE	NPAVP2ZZ	451	2,584	
	331 Total					2,584	0.0%
PEZ	333	OAH	NC	**NPRZZZZZ**	451	124,556	
PEZ	333	OAH	NE	NPAVP2ZZ	451	2,707	
	333 Total					127,263	1.4%
PEZ	343	OAH	NE	NPAVP2ZZ	451	3,568	
	343 Total					3,568	0.0%
PEZ	349	OAH	NE	NPAVP2ZZ	451	1,599	
	349 Total					1,599	0.0%
PEZ	375	OAH	NC	**NPRZZZZZ**	451	165,571	
	375 Total					165,571	1.8%

Hawaiian Electric Company, Inc.
Information Technology & Services Department
PEZ Actuals Jan- Dec 2003

RA	Act	Loc	Ind	Project	EE	Jan-Dec 03	Proportions
PEZ	614	OAH	NE	**NPCZZZZZ**	451	8,400	
	614 Total					8,400	0.1%
PEZ	616	OAH	NE	**NPCZZZZZ**	451	64,575	
	616 Total					64,575	0.7%
PEZ	700	PHE	NE	NPAVP7ZZ	451	31,586	
PEZ	700	PHE	NE	NPAVP3ZZ	451	31,586	
PEZ	700	PHE	NE	NPAPRESI	451	25,615	
PEZ	700	PHE	NE	NPASVP9Z	451	26,090	
	700 Total					114,877	1.3%
PEZ	701	PHE	NC	NPKZZZZZ	451	17,947	
	701	OAH	NC	**NPRZZZZZ**	451	38,713	0.6%
PEZ	701	PHE	NE	NPKZZZZZ	451	32,591	0.4%
	701 Total					89,251	
PEZ	710	PHE	NE	NPSZZZZZ	451	31,835	
	710 Total					31,835	0.3%
PEZ	712	PHE	ND	NPYZZZZZ	451	7,594	
PEZ	712	PHE	ND	NPSZZZZZ	451	2,009	
	712 Total					9,603	0.1%
PEZ	713	PHE	NE	NPEZZZZZ	451	125,856	
	713 Total					125,856	1.4%
PEZ	714	PHE	NE	P0000021	451	0	
PEZ	714	PHE	NE	P0000022	451	0	
PEZ	714	PHE	NE	P0000023	451	0	
PEZ	714	PHE	NE	P0000024	451	0	
PEZ	714	PHE	NE	P0000025	451	0	
PEZ	714	PHE	NE	NPEZZZZZ	451	0	
	714 Total					0	0.0%
PEZ	720	PHE	NS	**NPCZZZZZ**	451	670,975	
PEZ	720	PHE	NE	NPNEZZZZ	451	346	
	720 Total					671,321	7.3%
PEZ	722	PHE	NE	**NPFZZZZZ**	451	18,505	
	722 Total					18,505	0.2%
PEZ	730	PPO	NE	NPEZZZZZ	451	4,069	
	730 Total					4,069	0.0%
PEZ	736	PHE	NE	NPSZZZZZ	451	32,298	
PEZ	736	PHE	NE	P0000035	451	0	
	736 Total					32,298	0.4%
PEZ	738	PHE	NE	**NPNPZZZZ**	451	40,489	
	738 Total					40,489	0.4%
PEZ	739	PHE	NE	NPCCZZZZ	451	129,678	

Hawaiian Electric Company, Inc.
Information Technology & Services Department
PEZ Actuals Jan- Dec 2003

RA	Act	Loc	Ind	Project	EE	Jan-Dec 03	Proportions
PEZ	767	PHE	NE	**NPFZZZZZ**	451	56,408	
	767 Total					56,408	0.6%
PEZ	775	PHE	NE	NPFZZZZZ	451	17,807	
	775 Total					17,807	0.2%
PEZ	776	PHE	NE	NPFZZZZZ	451	108,215	
	776 Total					108,215	1.2%
PEZ	777	PHE	NE	NPAVP2ZZ	451	233,153	
PEZ	777	PHE	NE	NPAZZZZZ	451	24,749	
	777 Total					257,902	2.8%
PEZ	778	PHE	NE	NPFZZZZZ	451	30,435	
	778 Total					30,435	0.3%
PEZ	779	PHE	NE	NPFZZZZZ	451	33,228	

Hawaiian Electric Company, Inc.
Information Technology & Services Department
PEZ Actuals Jan- Dec 2003

RA	Act	Loc	Ind	Project	EE	Jan-Dec 03	Proportions
PEZ	876	PHE	NE	NPJZZZZZ	451	131,933	
	876 Total					131,933	1.4%
PEZ	896	PHE	NE	NPEZZZZZ	451	37,921	
	896 Total					37,921	0.4%
PEZ	899	PHE	NE	NPKZZZZZ	451	0	
	899 Total					0	0.0%
PEZ	907	OAH	NC	NPBZZZZZ	451	17,425	
PEZ	907	OAH	NC	NPEZZZZZ	451	0	
	907 Total					17,425	0.2%
PEZ	916	PHE	NC	NPRZZZZZ	451	31,586	

ITS Department
EFMS and Ebus Allocations

EFMS Allocations		Allocation Basis:	
PEZ 211 WST NC	NPYZZZZZ	62,388	10.8%
PEZ 256 KST NE	NPEZZZZZ	2,964	0.5%
PEZ 256 WST NE	NPEZZZZZ	2,964	0.5%
PEZ 307 OAH NC	NPEZZZZZ	112,644	19.4%
PEZ ## OAH NE	NPEZZZZZ	14,760	2.5%
PEZ 408 OAH NC	NPEZZZZZ	112,644	19.4%
PEZ 455 OAH NC	NPEZZZZZ	34,152	5.9%
PEZ 455 OAH NE	NPEZZZZZ	3,468	0.6%
PEZ 456 OAH NE	NPEZZZZZ	59,076	10.2%
PEZ 600 OAH NE	NPWZZZZZ	129,948	22.4%
PEZ 907 OAH NC	NPBZZZZZ	17,328	3.0%
PEZ ## PHE NE	NPEZZZZZ	9,636	1.7%
PEZ 931 PHE NE	NPEZZZZZ	17,724	3.1%
Total EFMS		579,696	100.0%

EBusiness Allocations		Allocation Basis:	
PEZ ## PHE NE	NPNEZZZZ	1,767	10.4%
[illegible]	[illegible]	[illegible]	[illegible]
PEZ ## OAH NE	NPNEZZZZ	3,607	21.2%
PEZ ## PHE NE	NPNEZZZZ	1,531	9.0%
PEZ ## PHE NE	NPNEZZZZ	-	0.0%
PEZ ## PHE NE	NPNEZZZZ	6,259	36.8%
PEZ ## PHE NE	NPNEZZZZ	3,725	21.9%
EFMS Allocations Total		17,008	100.0%

ALLOCATION BASIS ESTABLISH BY EFMS
AND EBIS PROGRAM MANAGERS IN

Hawaiian Electric Company, Inc.
Information Technology & Services Department
Direct Charges to O&M

ITS Department costs for non-core IT functions, including Records Management, Printing Services and Mailing Services are directly charged to Operations & Maintenance Expenses. Amortizaton of deferred Ebusiness costs are also directly charged to Operations & Maintenance Expenses. These costs not processed through the ITS Costing System.

The attached workpapers H and H-1 show the assumptions for 2005 Estimates for non-core IT functions. These costs are directly charged to functional area code block in the following areas:

Non-Core IT Function Direct O&M Charges:
- A & G Operation
- Customer Operations

Ebusiness Amortization Direct O&M Charges:
- Customer Services
- Distribution Operations
- Customer Accounts
- Customer Services
- Production Operations
- A & G Operations

10:24AM

FY05 Upd04 RA	Expense Category	
~~$405,000~~	~~Other~~	DELETED 6/3/04
$1,200	Materials	
$106,200		
$43,169	Labor	1752 HRS - 1 EMPL
$42,732	Labor	1800 HRS - 1 EMPL
$62,318	Labor	1956 HRS - 1 EMPL
$2,000	Outside Svcs	
$60,000	Outside Svcs	
$13,000	Outside Svcs	
$5,000	Outside Svcs	
$7,600	Outside Svcs	
$4,300	Other	
$240,119		
$60,024	Labor	1834 HRS 1 EMPL
$43,465	Labor	1764 HRS 1 EMPL
$86,034	Labor	3624 HRS - 2 EMPL
$84,000	Materials	
$8,400	Materials	
$32,200	Materials	
$75,000	Materials	
$864	Outside Svcs	
$3,300	Outside Svcs	
$7,524	Outside Svcs	
$144,000	Other	
$7,512	Other	
$42,732	Labor	1800 HRS - 1 EMPL
$2,151	Other	
$597,206		
$89,167	Labor	3756 HRS - 2 EMPL
$52,473	Labor	1932 HRS - 1 EMPL
$60,096	Labor	1920 HRS - 1 EMPL
$228,759	Labor	9636 HRS - 5 EMPL

Version: Mar04

Dept	*RA #	*Act #	*Ind #	*Loc #	*Proj #	*EE #	Line item	FY05 Upd04 RA	Expense Category
InfoTech	PEM	966	NE	PHE	NPEZZZZZ	205	Mailroom Supplies	$7,800	Materials
InfoTech	PEM	966	NE	PHE	NPEZZZZZ	301	Vehicle (1): Van	$10,890	Transportation
InfoTech	PEM	966	NE	PHE	NPEZZZZZ	301	Vehicle (1): Light vehicle	$10,890	Transportation
InfoTech	PEM	966	NE	PHE	NPEZZZZZ	501	Postal Fees: Postal P. O. Box fees + subscription	$3,493	Outside Svcs
InfoTech	PEM	966	NE	PHE	NPEZZZZZ	600	EM Mach Maint: Pitney Bowes + B&H + Valenti	$36,780	Other
InfoTech	PEM							$500,348	
InfoTech	PEP	110	NE	PHE	NPNEZZZZ	901	Amort of eBus BTL [ebus platform]	$12,062	Other
InfoTech	PEP	110	NE	PHE	NPNEZZZZ	901	Amort of eBus ATL [heco.com]	$6,841	Other
InfoTech	PEP	600	NE	OAH	NPNEZZZZ	901	Amort of eBus BTL [ebus platform]	$24,617	Other
InfoTech	PEP	600	NE	OAH	NPNEZZZZ	901	Amort of eBus ATL [heco.com]	$13,962	Other
InfoTech	PEP	611	NE	OAH	NPNEZZZZ	901	Amort of eBus BTL [ebus platform]	$24,617	Other
InfoTech	PEP	611	NE	OAH	NPNEZZZZ	901	Amort of eBus ATL [heco.com]	$13,962	Other
InfoTech	PEP	713	NE	PHE	NPNEZZZZ	901	Amort of eBus BTL [ebus platform]	$31,017	Other
InfoTech	PEP	713	NE	PHE	NPNEZZZZ	901	Amort of eBus ATL [heco.com]	$17,592	Other
InfoTech	PEP	730	NE	PPO	NPNEZZZZ	901	Amort of eBus BTL [ebus platform]	$6,154	Other
InfoTech	PEP	730	NE	PPO	NPNEZZZZ	901	Amort of eBus ATL [heco.com]	$3,491	Other
InfoTech	PEP	750	NE	PHE	NPNEZZZZ	901	Amort of eBus BTL [ebus platform]	$12,308	Other
InfoTech	PEP	750	NE	PHE	NPNEZZZZ	901	Amort of eBus BTL [ebus platform]	$6,154	Other
InfoTech	PEP	750	NE	PHE	NPNEZZZZ	901	Amort of eBus ATL [heco.com]	$6,981	Other
InfoTech	PEP	750	NE	PHE	NPNEZZZZ	901	Amort of eBus ATL [heco.com]	$3,491	Other
InfoTech	PEP	950	NE	PHE	NPNEZZZZ	901	Amort of eBus BTL [ebus platform]	$6,154	Other
InfoTech	PEP	950	NE	PHE	NPNEZZZZ	901	Amort of eBus ATL [heco.com]	$3,491	Other
InfoTech	PEP							$192,896	
								$1,636,769	

A&G OPERATIONS

CUSTOMER SERVICES 18,903

DISTRIBUTION OPERATIONS 38,9[illegible]

CUSTOMER ACCOUNTS 38,579

CUSTOMER SERVICES 48,609

PRODUCTION OPERATIONS 9644

CUSTOMER SERVICES 28,934

A&G OPERATIONS 9,615

Based on [illegible]

5 year [illegible]

NARUC 925

#75

12/22/2004

» budget manager: PR110H NPUpd - Detail Hrs

*R...	*Ac...	*Lo...	*In...	*Proj #	*E...	*Lbr Class	Line item	FY05 Upd04 RA (HOURS)	Employees
PEC	965	PHE	NE	NPEZZ...	150	__BUOC	BUOC Provide Records Mgmt Svcs 965	1,800	1
PEC	965	PHE	NE	NPEZZ...	150	__I	IMPL 965-150 Provide Records Mgmt Svcs	1,752	1
PEC	965	PHE	NE	NPEZZ...	150	__TC	TC Provide Records Mgmt Svcs 965	1,956	1
PEC								5,508	
PEI	967	PHE	NE	NPEZZ...	150	__BUOC	BUOC Provide Printing Svcs 967 (PER)	3,624	2
PEI	967	PHE	NE	NPEZZ...	150	__I	I Provide Printing Svcs 967 (PER)	1,764	1
PEI	967	PHE	NE	NPEZZ...	150	__TC	TC Provide Printing Svcs 967 (PER TCS)	1,884	1
PEI	968	PHE	NE	NPEZZ...	150	__BUOC	BUOC Prov Word Proc Svcs 968 (PER)	1,800	1
PEI								9,072	
PEM	614	OAH	NE	NPEZZ...	150	__BUOC	BUOC Proc Customer Bills 614	3,756	2
PEM	966	PHE	NE	NPEZZ...	150	__BUOC	BUOC Handle & Deliver Mail 966	9,636	5
PEM	966	PHE	NE	NPEZZ...	150	__BUTC	BUTC Handle & Deliver Mail 966	1,932	1
PEM	966	PHE	NE	NPEZZ...	150	__TCS	TCS Handle & Deliver Mail 966	1,920	1
PEM								17,244	
								31,824	17

1-4

SUBSTANCE ABUSE PROGRAM
2005 BUDGET

TESTING	Unit Cost	Units*	Annual Cost	
Random - Drug CDL (50% test rate)				
Service fee (12 months)	$1.50	250	$4,500	
Lab/MRO	$45.00	125	$5,625	
Blind Specimens (3 per 100 tests)	$53.00	4	$212	
RDTS Collection Labor **	$90.00	30	$2,700	
		Sub-Total	$13,037	
Random - Drug RSPA (25% test rate)				
Service fee (12 months)	$1.50	250	$4,500	
Lab/MRO	$45.00	65	$2,925	
Blind Specimens (3 per 100 tests)	$53.00	2	$106	
RDTS Collection Labor **	$90.00	20	$1,800	
		Sub-Total	$9,331	
Random - Alcohol CDL (10% test rate)				
Service Fee (12 months)	$0.25	250	$750	
Breath Alcohol Screen	$8.00	25	$200	
Confirmation	$8.00	10	$80	
		Sub-Total	$1,030	
Follow-up - Drug				
Lab/MRO	$45.00	20	$900	
RDTS Collection Labor ** (try to schedule w/Random)	$90.00	10	$900	
		Sub-Total	$1,800	
Follow-up - Alcohol				
Breath Alcohol Screen	$8.00	10	$80	
Confirmation	$8.00	2	$16	
		Sub-Total	$96	
Reas Susp/Post Accident (Non-DOT)				
Drug ($45/Lab/MRO + $90 RDTS Col Labor)	$135.00	8	$1,080	
Alcohol ($8/BAT Screen + Labor covered above)	$8.00	8	$64	
		Sub-Total	$1,144	
				Forecast Mos.
DRUG/ALCOHOL TEST TOTAL			$26,438	
Forecast as "Round-Up"			$27,000	$2250 per mo.
TRAINING (CDL,Pipeline,Laulima)		Sub-Total	$2,500	
OTHER (misc expenses; annual message w/ promo item for all employees)			$3,000	
		Sub-Total	$3,000	
		TOTAL	**$32,500**	

* RANDOM UNITS ARE BASED ON # OF CDL AND RSPA EMPLOYEES SUBJECT TO DOT DRUG/ALCOHOL TESTS
** $60/hr between midnite - 7:59 a.m.; $30/succeeding hr
$45/hr after 8 a.m.-midnite; $30/succeeding hr
Average collection is 2 hours

#58

#38

#39

mments
n Pigging: Add $80K per CHiga via NYuen sed on Geometry Pig Run.
fety Shoes/Coveralls: Add $58K per RHarris Rate Case. 99Act=$47,783; 00Act=$63,325; Act=$69,036; 02Act=$54,821; 03 Act=$59,878
BirChemCln: Add $400K Kmark.
er Staffing: Delete 1 Oper IH. -$111K
er Staffing: Add 5 Oper IW. $623K
9 Overhaul: Add $5K for Gas Turbine Matls. nd Blast Grit. RKiyabu. From $5K to $10K.
9 Overhaul: Add $60K for Gas Turbine O/S. eld Rprs From $30K to $60K. Crane Rental m $20K to $50K. RKiyabu.
9 Overhaul: Add $10K for Gas Turbine O/S. elders. RKiyabu. From $10K to $20K.
9 Overhaul: Add $25K for Gas Turbine O/S. nerator Testing. RKiyabu. From $0 to $25K.
10 Overhaul: Add $5K for Gas Turbine Matls. nd Blast Grit. RKiyabu. From $5K to $10K.
10 Overhaul: Add $60K for Gas Turbine O/S. eld Rprs From $30K to $60K. Crane Rental m $20K to $50K. RKiyabu.
10 Overhaul: Add $10K for Gas Turbine O/S. elders. RKiyabu. From $10K to $20K.
10 Overhaul: Add $25K for Gas Turbine O/S. nerator Testing. RKiyabu. From $0 to $25K.
Overhaul: Delete $5K. Boiler PM. DCS ttRAM. From $5K to $0
OH: Add $10K. Boiler PM. DCS vrSupMod/DCS cabinet Fans. From $20K to 0K.
OH: Delete $14K. Boiler PDM. FWH ECT ntractor. From $20K to $6K.
OH: Add $12K. Boiler CM. ERV Stop Valve r. From $0 to $12K.
OH: Add $30K. Turb PDM. Gen Stator edges. From $0 to $30K.
OH: Add $80K. Turb PDM. Gen Field ecialist support. From $0 to $80K.
6 OH: Add $3K. Boiler CM. APH Basket Repl. om $2K to $5K.

CA-IR-2
DOCKET NO. 04-0113
HECO T-14
ATTACHMENT 13
PAGE 1 OF 7

2005 Budget Recycle

RA	#Ee	LbrCls#	Labor Hrs	Labor $	Ovrhead	TTL	Cost/EE
PIW	53	_BUTCI	132,088	$4,492,312	$2,116,531	$6,608,843	$124,695
PIH	19	_BUTCI	42,447	$1,433,625	$679,314	$2,112,939	$111,207
PJC	1	_WHMAID	2,092	$66,944	$33,167	$100,111	$100,111

$	
HRS	
HRS	
HRS	
HRS	

Preliminary Overhead

Materials	9.15%
Payroll Taxes	8.42%
Employee Benefits	$6.46
Non-Productive Wages	$3.84
Corporate Administration	$2.86
	$13.16

CA-IR-2
DOCKET NO. 04-0113
HECO T-14
ATTACHMENT 13
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5/22/03

Working Copy

NONLABOR FORECAST WORKSHEET
O&M DEPARTMENT
OPERATIONS HONOLULU: IH
2004

Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Activity	Location	Indicator	Project							
331	HST	NE	NPIZZZZZ							
s Recorded in '00 & May ytd '01 for Honolulu Operation					0	0	0	0	0	0
Activity	Location	Indicator	Project							
877	HST	NE	NPIZZZZZ							
550	550	550	550	550	550	550	550	550	550	6,600 ok
550	550	550	550	550	550	550	550	550	550	6,600 ✓
Activity	Location	Indicator	Project							
242	HST	NE	NPIZZZZZ							
50	50	50	50	50	50	50	50	50	~~50~~ 100	~~600~~ 1200
1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	~~23,400~~ 24,000 ok
Activity	Location	Indicator	Project	Combine actuals from act. 240 with 242						
240	HST	NE	NPIZZZZZ							
1,300	1,100	1,100	1,300	1,100	1,100	1,300	1,100	1,100	1,300	14,000 ok
3,800	3,600	3,600	3,800	3,600	3,600	3,800	3,600	3,600	3,800	~~44,000~~ 44.6
Activity	Location	Indicator	Project							
795	PPO	NE	NPIZZZZZ							
190	190	190	190	190	190	190	190	190	~~190~~ 125	~~2280~~ 1500 *
190	190	190	190	190	190	190	190	190	190	2280 # 40
Activity	Location	Indicator	Project							
876	HST	NE	NPIZZZZZ							
activity 248)					0	0	0	0	~~0~~ 75	~~0~~ 900 ✓
0	0	0	0	0	0	0	0	0	0	0
Activity	Location	Indicator	Project							
242	HST	NE	NPIZZZZZ							
1300	1300	1300	1300	1300	1300	1300	1300	1300	~~1300~~ 1500	~~15600~~ 18000 ✓
1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	15600

indicators

#40

CA-IR-2
DOCKET NO. 04-0113
HECO T-14
ATTACHMENT 13
PAGE 4 OF 7

Rev 5/22/03
Rev 6/12/03 [illegible]

O&M DEPARTMENT

NONLABOR FORECAST WORKSHEET

OPERATIONS KAHE: IK
2004 & 2005

	Basis	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Develop & Maintain Policies & Procedures		RA	Exp Elem	Activity	Location	Indicator	Project							
		PIK	501	240	KST	NE	NPIZZZZZ							
HP000167 Pager/Cellular F	7200 ~~$9,600~~	600 ~~800~~	800	800	800	800	800	800	800	800	800	800	600 ~~800~~	7200 ~~9,600~~
Operate & Monitor Plant Equip-Boiler		RA	Exp Elem	Activity	Location	Indicator	Project							
		PIK	501	242	KST	NE	NPIZZZZZ							
HP000736 City Water	228,000 ~~$180,000~~	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	228,000 ~~180,000~~
TOTAL		15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	180,000
Operate & Monitr Plant Equip -TurboGen		RA	Exp Elem	Activity	Location	Indicator	Project							
		PIK	501	243	KST	NE	NPIZZZZZ							
HP000175 Op. & Mon. Plt. Eq. Turb. Gen	ok $0	0	0	0	0	0	0	0	0	0	0	0	0	0
PR000177	$0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		0	0	0	0	0	0	0	0	0	0	0	0	0
Comply Ongoing Solid & Haz. Waste, Oil Rel		RA	Exp Elem	Activity	Location	Indicator	Project							
HP000037 Marine Spill Response		PIK	501	877	KST	NE	NPIZZZZZ							
TOTAL	$12,800 ok	$3,200	0	0	$3,200	0	0	$3,200	0	0	$3,200	0	0	12800 ✓
Comply Ongoing Permits Reg./Req. - Air		RA	Exp Elem	Activity	Location	Indicator	Project							
HP000048		PIK	501	875	KST	NE	NPIZZZZZ							
TOTAL	$10,000 ok	$2,500	0	0	$2,500	0	0	$2,500	0	0	$2,500	0	0	10000 ✓
TOTAL 501		21,500	15,800	15,800	21,500	15,800	15,800	21,500	15,800	15,800	21,500	15,800	15,800	198,000 212,400
Dev, Mge, & Adm Safety Prog & Traing		RA	Exp Elem	Activity	Location	Indicator	Project							
		PIK	201	795	PPO	NE	NPIZZZZZ							
Safety Equip:Shoes,Glasses,Oth	ok $2,160	180	180	180	180	180	180	180	180	180	180	180	180	2,160 *
TOTAL		180	180	180	180	180	180	180	180	180	180	180	180	2160
Develop & Maintain Policies & Procedures		RA	Exp Elem	Activity	Location	Indicator	Project							
		PIK	201	241 ~~240~~	KST	NE	NPIZZZZZ							
	2400 ~~$8,400~~	700	700	700	700	700	700	700	700	700	700	700	700	2400 ~~8400~~
TOTAL		700	700	700	700	700	700	700	700	700	700	700	700	8400

#41

* Based on historical trends –

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
***productive monthly hours	176	152	176	160	176	160	168	176	152	176	160	152	
ASSIGNED VEHICALS	PIL	259	KST	NE	NPIZZZZZ	301							
$5.50													
A041 Fire Truck ($5.50 per hr)	968	836	968	880	968	880	924	968	836	968	880	836	10,912 ✓
$2.75													
A048 NEON($2.75 per hr)	484	418	484	440	484	440	462	484	418	484	440	418	5,456 ~~4,400~~
ASSIGNED VEHICLES total	1,452	1,254	1,452	1,320	1,452	1,320	1,386	1,452	1,254	1,452	1,320	1,254	16,368 ✓
	PIL	262	KST	NE	NPIZZZZZ	301							
A042 15 Pass Van($5.50 per hr) 5.15	968	836	968	880	968	880	924	968	836	968	880	836	~~10,912~~ 1984 x $5.15 = $11,408
A044 GMC P/U Truck($5.50 per hr) 5.15	968	836	968	880	968	880	924	968	836	968	880	836	~~10,912~~ 1984 x $5.15 =
ASSIGNED VEHICLES total	1,936	1,672	1,936	1,760	1,936	1,760	1,848	1,936	1,672	1,936	1,760	1,672	~~21,824~~ ✓ $11,408
													$22,816
(SAFETY PROGRAMS + TRAINING)	PIL	795	KST	NE	NPIZZZZZ	201	(From historical indicators - misc items)						
Gen. Pil - trend	300	300	300	300	300	300	300	300	300	300	300	300	3,600 ✓
	PIL	263	KST	NE	NPIZZZZZ	201							
General Pil. - Trend	400	400	400	400	400	400	400	400	400	400	400	400	4,800 ✓ ✓
	PIL	257	KST	NE	NPIZZZZZ	201							
Gen Plant - Trend	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	12,000
BFP OH (1)	0	0	0	0	0	0	~~80,000~~ 150,000	0	0	0	0	0	~~80,000~~ 150,000
	***	***	***	***	***	***	***	***	***	***	***	***	***
total	1,000	1,000	1,000	1,000	1,000	1,000	~~81,000~~ 151,000	1,000	1,000	1,000	1,000	1,000	92,000 ✓ 352,000
													162,000 ✓
	PIL	260	KST	NE	NPIZZZZZ	201							
Gen Plant - Trend	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	18,000
CND Pump oh	0	0	0	0	0	0	0	0	~~18,000~~ 13,000	0	0	0	~~18,000~~ 13,000
	***	***	***	***	***	***	***	***	***	***	***	***	***
total	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	~~19,500~~ 14,500	1,500	1,500	1,500	36,000 ✓ ~~31,000~~
	PIL	269	KST	NE	NPIZZ	501							210,000 ✓

#42

Fuse Hours

NONLABOR FORECAST WORKSHEET
O&M DEPARTMENT
OPERATIONS: IO
2004 & 2005

Rev Non Labor 6-23-03

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Comply w/ Permit Reg Reqs-Solid & Haz	RA	Exp Elem	Activity	Location	Indicator	Project							
	PIO	801	877	WST	NE	NPIZZZZZ							
HP32/HP33/HP34 Clean Island Council	139,000		0	0	0	0	0	0	0	0	0	0	139,000
Int'l Bird Resource Rehab Council	0	0	0	0	0	0	0	0	0	0	0	0	0
HP000047 Honolulu Harbor Fees	0	0	0	0	0	145,600	0	0	0	0	0	0	145,600
TOTAL	139,000	0	0	0	0	145,600	0	0	0	0	0	0	284,600
Deve & Maintain Policies & Procedures	RA	Exp Elem	Activity	Location	Indicator	Project							
	PIO	801	240	WST	NE	NPIZZZZZ							
Pager/Cellular Phone	200	200	200	200	200	200	200	200	200	200	200	200	2400
TOTAL	200	200	200	200	200	200	200	200	200	200	200	200	2400
	RA	Exp Elem	Activity	Location	Indicator	Project							
	PIO	201	242	KST	NE	NPIZZZZZ							
Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
Deve, Mge, & Admin Safety Programs	RA	Exp Elem	Activity	Location	Indicator	Project	(Based on historical indicators)						
	PIO	201	795	PPO	NE	NPIZZZZZ							
Safety Shoes and Other Equipment	0	0	75	0	0	75	0	0	75	0	0	75	300
TOTAL	0	0	75	0	0	75	0	0	75	0	0	75	300
Deve & Maintain Policies & Procedures	RA	Exp Elem	Activity	Location	Indicator	Project							
Vehicles	PIO	301	242	WST	NE	NPIZZZZZ	$2.75 per hr.						
A: Total Hours Available Per Month	184	160	176	168	184	168	176	184	160	184	176	168	2088
Lose Holiday Hours	0	8	0	8	8	8	8	8	8	8	24	16	104
B: Total Productive Hours Per Month	184	152	176	160	176	160	168	176	152	176	152	152	1984
(input hours ONLY to Pillar)	368	304	352	320	352	320	336	352	304	352	304	304	3968
A19 Shadow Pool Car: Jose Dizon +1 add.	$1,012	$880	$968	$924	$1,012	$924	$968	$1,012	$880	$1,012	$968	$924	$11,484
TOTAL	1012	880	968	924	1012	924	968	1012	880	1012	968	924	11484
NONLABOR TOTAL-2003	140,212	1,080	1,243	1,124	1,212	146,799	1,168	1,212	1,155	1,212	1,168	1,199	298,764

#43

2004 IO BUD Fore 5-10-03.xls
6/18/2003

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
	PIX	258	WST	NE	NPIZZZZZ	501							
Gen. Plant / Lube oil,etc.- Trend	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	36,000
	PIX	259	WST	NE	NPIZZZZZ	501							
Gen Plant - Trend	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	120,000
	PIX	260	WST	NE	NPIZZZZZ	501							
Travel Screen OH	0	0	75,000	0	0	0	0	0	75,000	0	0	0	150,000
Gantry Crane Certification	0	0	0	0	0	0	0	0	7,000	0	0	0	7,000
Tunnel Cleaning	0	55,000	0	0	0	0	0	55,000	0	0	0	0	110,000
Two Condensate Pmp OH	0	0	0	0	0	0	0	0	80,000	0	0	0	80,000
	0	55,000	75,000	0	0	0	0	55,000	162,000	0	0	0	347,000
	PIX	282	WST	NE	NPIZZZZZ	501							
[redacted]	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	30,000
Cathodic Protection						75,000	75,000						150,000
Circ. Wtr Spalling Repairs						25,000	25,000						50,000
Turbine Deck Coating								50,000					50,000
total	2,500	2,500	2,500	2,500	2,500	102,500	102,500	52,500	2,500	2,500	2,500	2,500	280,000
	PIX	268	WST	NE	NPIZZZZZ	501							
Sludge Bed Drying Cell Renewal	0	0	0	50,000	0	0	0	0	50,000	0	0	0	100,000
Gantry Crane Mech/Hydr Repr					45,000								45,000
total	0	0	0	50,000	45,000	0	0	0	50,000	0	0	0	145,000
2.75	176	152	176	160	176	160	168	176	152	176	160	152	1,984
A039 Neon($2.75 per hr)	PIX	242	WST	NE	NPIZZZZZ	301	5,456.00						
(5.5)	484	418	484	440	484	440	462	484	418	484	440	418	5,456
A023 Chevy P/U Truck($5 per hr)	PIX	297	WST	NE	NPIZZZZZ	301	5,456.00						
5.5	968	836	968	880	968	880	924	968	836	968	880	836	10,912
A027 Ford Service Truck($5 per hr)	PIX	289	WST	NE	NPIZZZZZ	301	5,456.00						
5.5	968	836	968	880	968	880	924	968	836	968	880	836	10,912
Light Truck($5 per hr)	PIX	292	WST	NE	NPIZZZZZ	301	5,456.00						
5.5	968	836	968	880	968	880	924	968	836	968	880	836	10,912
Light Truck($5 per hr)	PIX	288	WST	NE	NPIZZZZZ	301	5,456.00						
	968	836	968	880	968	880	924	968	836	968	880	836	10,912
Protective Equip	PIX	795	WST	NE	NPIZZZZZ	201							
	575	575	575	575	575	575	575	575	575	575	575	575	6,900 (1)
	PIX	263	WST	NE	NPIZZZZZ	201							
Gen Plant - Trend	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	12,000
	PIX	257	WST	NE	NPIZZZZZ	201							
Gen Plant - Trend	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	12,000
BFP OH	0	0	0	0	0	0	0	150,000	0	0	0	0	150,000
	===	===	===	===	===	===	===	===	===	===	===	===	===
total	1,000	1,000	1,000	1,000	1,000	1,000	1,000	151,000	1,000	1,000	1,000	1,000	162,000
	PIX	260	WST	NE	NPIZZZZZ	201							
Gen Plant - Trend	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	12,000

(1) Based on historical indicators

(1,984 x 2.75 = 5,456)
(1,984 x 5.5 = 10,912)
(1,984 x 5.5 = 10,912)
(1,984 x 5.5 = 10,912)
(1,984 x 5.5 = 10,912)

IX 4.4

#45

CA-IR-2:

a. Identify each employee involved in preparation of non-labor direct expense amounts included in the rate case test period budget and sponsored by the witness. HECO Response: The Safety Division's budgeted staffing and associated labor direct expense amounts were prepared by Alden Ishii, Director of Corporate Safety, and approved by Jim Beavers, Manager of the Safety, Security and Facilities Department.
b. Provide complete copies of all calculations, spreadsheet files, "pencil" work papers, surveys and other analyses performed indicating the amounts be Department, RA, Activity and NARUC Account that such calculations support. HECO Response: See attached spreadsheet and breakdown by expense element.
c. For each budgeted non-labor amount in the test period forecast that exceeds $50,000, please describe the basis for determining the budgeted amount (for example, bid solicitations, price times quantity estimation, historical cost escalated, etc.). HECO Response: See attached spreadsheet.

Safety

CA-IR-2 Direct Non-Labor

Line Item #	NARUC	NARUC Descr	*Act #	RA	*EE #	FY05 Budget05	Budget Prep - Source	> $50,000? X		
46	925	INJURIES & DAMA	795	PFS	205	$72,840	Alden Ishii	Historical cost inflated by 3%; SF000271 - $70,475 x 1.03 = $72,580		
47	925	INJURIES & DAMA	796	PFS	205	$45,650	Alden Ishii	Historical cost inflated by 3%; SF000266, SF000268 SF000292 total = $44,200 x 1.03 = $45,526		
49	925	INJURIES & DAMA	950	PFS	205	$2,400	Alden Ishii	Historical average cost; SF000086 - $5,231/2 = $,2,615		
51	925	INJURIES & DAMA	795	PFS	301	$127,920	Alden Ishii	Based on 11 vehicles assigned to Safety Division; 7 sedans, 1 light truck, 3 heavy trucks		
56	925	INJURIES & DAMA	789	PFS	501	$7,500	Alden Ishii	Outside services for annual refresher training (e.g., first aid, CPR, asbestos and lead abatement)	CPR (Wayne Ogino) - $1,000; Lead/Asbestos (Muranaka) - $6,500	
59	925	INJURIES & DAMA	795	PFS	501	$225,340	Alden Ishii	Historical costs for outside services for annual physicals (e.g., abestos, CDL, crane, etc.), corporate safety awards, other special safety awards, safety banquet, safety breakfast, and safety recognition awards	SF000216, SF000285, SF000322, SF000334. SF000335, SF000336, SF000337, SF000338, **Total**	$2,000, $1,700, $32,900, $41,500, $16,000, $97,500, $10,300, $21,100, **$223,000**
60	925	INJURIES & DAMA	796	PFS	501	$22,000	Alden Ishii	Historical costs for outside services for fire extinguisher servicing/repairs	SF000289, SF000290, SF000291, **Total**	$22,200, $15,400, $22,200, **$59,800**
66	925	INJURIES & DAMA	795	PFS	515	$480	Alden Ishii	Membership fee for National Safety Council		
67	925	INJURIES & DAMA	796	PFS	515	$120	Alden Ishii	Membership fee for NFPA		
68	925	INJURIES & DAMA	795	PFS	516	$480	Alden Ishii	Membership fees for ASSE		
69	925	INJURIES & DAMA	789	PFS	520	$3,000	Alden Ishii	Estimate for one training class or seminar on the mainland (e.g., EPRI, EEI, Accident Investigation, etc.)		
70	925	INJURIES & DAMA	795	PFS	521	$504	Alden Ishii	Reimbursement estimate for lunches while attending Oahu Fleet Safety meetings		
72	925	INJURIES & DAMA	795	PFS	900	$14,400	Alden Ishii	Shop steward, BU, and supervisor safety awards ($1,000 ea for shop stewards & supvisors, $500 ea for BU ees)		

12/28/2004 *ENTER: Direct RA Cost 8:57AI

*RA #	*Ac...	*Lo...	*In...	*E...	*Labor...	Line Item	FY04	FY05
PFS	*Su...	*Su...	*S...	*S...	__BUOC	Clerk Typist III	$1,232.00	$2,080.00
PFS	*Su...	*Su...	*S...	*S...	__BUOC	Safety Aide	$1,232.00	$2,080.00
PFS	*Su...	*Su...	*S...	*S...	__BUTC	FEI&Repairer (GK)	$1,232.00	$2,080.00
PFS	*Su...	*Su...	*S...	*S...	__BUTC	FEI&Repairer (DD)	$1,232.00	$2,080.00
PFS	*Su...	*Su...	*S...	*S...	__FS	Safety Director	$1,232.00	$2,080.00
PFS	*Su...	*Su...	*S...	*S...	__TC	Fleet Specialist (KT)	[illegible]	[illegible]
PFS	*Su...	*Su...	*S...	*S...	__TC	OHHS (4)	$4,928.00	$8,320.00
PFS	*Su...	*Su...	*S...	*S...	__TC	Public Specialist (RP)	$1,232.00	$2,080.00
PFS	*Su...	*Su...	*S...	*S...			$13,552.00	$22,880.00
PFS	*Su...						$13,552.00	$22,880.00
PFS	098	PHE	ND	107	__BUOC	NProd - Clerk Typist III	$3,612.25	$6,344.25
PFS	098	PHE	ND	107	__BUOC	NProd - Safety Aide	$3,239.09	$5,559.87
PFS	098	PHE	ND	107	__BUTC	NProd - FEI& Repairer (GK)	$3,689.00	$6,359.99
PFS	098	PHE	ND	107	__BUTC	NProd - FEI&Repairer (DD)	$3,689.00	$6,359.99
PFS	098	PHE	ND	107	__FS	NProd - Safety Director	$6,471.08	$10,947.75
PFS	098	PHE	ND	107	__TC	NProd - Fleet Specialist (KT)	$2,175.12	$2,453.60
PFS	098	PHE	ND	107	__TC	NProd - OHSS (AS)	$3,866.88	$6,379.36
PFS	098	PHE	ND	107	__TC	NProd - OHSS (EY)	$4,088.42	$7,115.44
PFS	098	PHE	ND	107	__TC	NProd - OHSS (JM)	$4,873.88	$8,434.25
PFS	098	PHE	ND	107	__TC	NProd - OHSS (RR)	$5,075.28	$8,134.00
PFS	098	PHE	ND	107	__TC	NProd - PSafety Specialist (RP)	$2,900.16	$3,189.68
PFS	098	PHE	ND	107			$43,680.16	$69,278.18
PFS	098						$43,680.16	$69,278.18
PFS	700	PHE	NE	150	__FS	Business Plans - Safety Director	$1,263.47	$2,149.74
PFS	700	PHE	NE	150			$1,263.47	$2,149.74
PFS	700						$1,263.47	$2,149.74 #6
PFS	701	PHE	NE	150	__FS	Forecast - Safety Director	$2,526.93	$4,299.48
PFS	701	PHE	NE	150	__TC	Forecast - OHSS (RR)	$0.00	$0.00
PFS	701	PHE	NE	150			$2,526.93	$4,299.48
PFS	701						$2,526.93	$4,299.48 #7
PFS	720	PHE	NE	150	__FS	Business Process - Safety Director	$3,322.45	$5,653.02
PFS	720	PHE	NE	150			$3,322.45	$5,653.02
PFS	720						$3,322.45	$5,653.02 #8
PFS	723	PHE	NE	150	BUOC	Incentive Rec Programs - Clerk Typist III	[illegible]	[illegible]

12/28/2004 *ENTER: Direct RA Cost 8:57 AM

*RA #	*Ac...	*Lo...	*In...	*E...	*Labor...	Line item	FY04	FY05
PFS	723						$8,140.40	$18,014.67
PFS	745	PHE	NE	150	__FS	Relations Gov Agencies - Safety Director	$2,082.38	$3,543.09
PFS	745	PHE	NE	150	__TC	Relations Gov Agencies - OHSS (RR)	$1,621.27	$2,821.64
PFS	745	PHE	NE	150	__TC	Relations Gov Agencies - PSafety Speciali...	$3,313.03	$5,765.96
PFS	745	PHE	NE	150			$7,016.68	$12,130.69
PFS	745						$7,016.68	$12,130.69
PFS	749	PHE	NE	150	__BUOC	Relations Trade Assoc - Clerk Typist III	$1,201.60	$2,122.44
PFS	749	PHE	NE	150	__BUOC	Relations Trade Assoc - Safety Aide	$1,201.60	$2,122.44
PFS	749	PHE	NE	150	__FS	Relations Trade Assoc - Safety Director	$2,082.38	$3,543.09
PFS	749	PHE	NE	150	__TC	Relations Trade Assoc - Fleet Specialist(KT)	$1,885.61	$3,281.69
PFS	749	PHE	NE	150	__TC	Relations Trade Assoc - OHSS (AS)	$3,313.03	$5,765.96
PFS	749	PHE	NE	150	__TC	Relations Trade Assoc - OHSS (EY)	$3,323.10	$5,765.96
PFS	749	PHE	NE	150	__TC	Relations Trade Assoc - OHSS (JM)	$3,172.05	$5,520.60
PFS	749	PHE	NE	150	__TC	Relations Trade Assoc - OHSS (RR)	$1,621.27	$2,821.64
PFS	749	PHE	NE	150	__TC	Relations Trade Assoc - PSafety Specialis...	$3,313.03	$5,765.96
PFS	749	PHE	NE	150			$21,113.66	$36,709.78
PFS	749						$21,113.66	$36,709.78
PFS	750	PHE	NE	150	__TC	Customer Relations - PSafety Specialist(RP)	$1,991.34	$3,465.71
PFS	750	PHE	NE	150			$1,991.34	$3,465.71
PFS	750						$1,991.34	$3,465.71
PFS	767	PHE	NE	150	__FS	Recruitement Policies - Safety Director	$0.00	$0.00
PFS	767	PHE	NE	150			$0.00	$0.00
PFS	767						$0.00	$0.00
PFS	777	PHE	NE	150	__BUOC	Payroll - Clerk Typist III	$1,201.60	$2,122.44
PFS	777	PHE	NE	150	__BUOC	Payroll - Safety Aide	$1,201.60	$2,122.44
PFS	777	PHE	NE	150			$2,403.19	$4,244.88
PFS	777						$2,403.19	$4,244.88
PFS	785	PHE	NE	150	__BUOC	Training Dev - Safety Aide	$895.60	$922.80

#9

#10

*RA #	*Ac...	*Lo...	*In...	*E...	*Labor...	Line Item	FY04	FY05	
PFS	787	PHE	NE	150	__TC	Dev Ee Training - Fleet Specialist (KT)	$1,092.60	$1,656.18	
PFS	787	PHE	NE	150	__TC	Dev Ee Training - OHSS (RR)	$2,290.93	$3,987.10	
PFS	787	PHE	NE	150			$3,383.52	$5,643.28	#12
PFS	787						$3,383.52	$5,643.28	
PFS	789	PHE	NE	150	__BUTC	Attend Training - FEI&Repairer (DD)	$2,201.50	$4,836.17	
PFS	789	PHE	NE	150	__BUTC	Attend Training - FEI&Repairer (GK)	$2,201.50	$3,896.92	
PFS	789	PHE	NE	150	__FS	Attend Training - Safety Director	$865.71	$1,472.97	
PFS	789	PHE	NE	150	__TC	Attend Training - OHSS (RR)	$1,621.27	$2,821.64	
PFS	789	PHE	NE	150	__TC	Attend Training - PSafety Specialist (RP)	$1,991.34	$3,465.71	
PFS	789	PHE	NE	150			$8,881.32	$16,495.41	#13
PFS	789	PHE	NE	501		Attend Training - Outside Services	$4,375.00	$7,500.00	
PFS	789	PHE	NE	501			$4,375.00	$7,500.00	#56
PFS	789	PHE	NE	520		Attend Training - Corporate Membership	$1,750.00	$3,000.00	#69
PFS	789	PHE	NE	520			$1,750.00	$3,000.00	
PFS	789						$15,006.32	$26,995.41	
PFS	795	PHE	NE	150	__BUOC	Safety Programs/Training - Clerk Typist III	$16,725.33	$28,837.50	
PFS	795	PHE	NE	150	__BUOC	Safety Programs/Training - Safety Aide	$16,747.72	$29,760.30	
PFS	795	PHE	NE	150	__BUTC	Safety Programs/Training - FEI&Repairer (...	$1,666.00	$2,955.68	
PFS	795	PHE	NE	150	__BUTC	Safety Programs/Training - FEI&Repairer (...	$1,666.00	$2,955.68	
PFS	795	PHE	NE	150	__FS	Safety Programs/Training - Safety Director	$25,710.51	$42,994.80	
PFS	795	PHE	NE	150	__TC	Safety Programs/Training - Fleet Specialis...	$25,013.88	$42,692.64	
PFS	795	PHE	NE	150	__TC	Safety Programs/Training - OHSS (AS)	$22,821.14	$39,349.61	
PFS	795	PHE	NE	150	__TC	Safety Programs/Training - OHSS (EY)	$20,501.50	$35,239.83	
PFS	795	PHE	NE	150	__TC	Safety Programs/Training - OHSS (JM)	$20,278.88	$34,473.08	
PFS	795	PHE	NE	150	__TC	Safety Programs/Training - OHSS (RR)	$22,838.76	$39,380.28	
PFS	795	PHE	NE	150	__TC	Safety Programs/Training - PSafety Speci...	$21,539.73	$36,644.20	
PFS	795	PHE	NE	150			$195,509.45	$337,283.60	#18
PFS	795	PHE	NE	205		Safety Programs/Training - Purchases	$42,480.00	$72,840.00	
PFS	795	PHE	NE	205			$42,480.00	$72,840.00	#46
PFS	795	PHE	NE	301		Safety Programs/Training - Vehicle Hours ...	$23,716.00	$36,400.00	
PFS	795	PHE	NE	301		Safety Programs/Training - Vehicle Hrs - 1...	$6,776.00	$11,960.00	
PFS	795	PHE	NE	301		Safety Programs/Training - Vehicle Hrs - 3...	$46,200.00	$79,560.00	
PFS	795	PHE	NE	301			$76,692.00	$127,920.00	#51
PFS	795	PHE	NE	501		Safety Programs/Training - Corporate Saf...	$32,083.33	$55,000.00	
PFS	795	PHE	NE	501		Safety Programs/Training - Outside Servi...	$42,480.00	$72,840.00	
PFS	795	PHE	NE	501		Safety Programs/Training - SAFETY BAN...	$56,875.00	$97,500.00	
PFS	795	PHE	NE	501			$131,448.33	$225,340.00	#59
PFS	795	PHE	NE	515		Safety Programs/Training - Corporate Me...	$280.00	$480.00	
PFS	795	PHE	NE	515			$280.00	$480.00	#66
PFS	795	PHE	NE	516		Safety Programs/Training - Corporate Me...	$280.00	$480.00	
PFS	795	PHE	NE	516			$280.00	$480.00	#68

12/28/2004 *ENTER: Direct RA Cost 8:57A

*RA #	*Ac...	*Lo...	*In...	*E...	*Labor...	Line Item	FY04	FY05	
PFS	795	PHE	NE	521		Safety Programs/Training - Meals & Entert...	$294.00	$504.00	#70
PFS	795	PHE	NE	521			$294.00	$504.00	
PFS	795	PHE	NE	900		OTHER SPECIAL SAFETY AWARDS	$8,400.00	$14,400.00	
PFS	795	PHE	NE	900			$8,400.00	$14,400.00	#72
PFS	795						$455,393.78	$779,247.60	
PFS	798	PHE	NE	150	__BUTC	Fire Protection - FEI&Repairer (DD)	$19,804.98	$34,729.24	
PFS	798	PHE	NE	150	__BUTC	Fire Protection - FEI&Repairer (GK)	$20,034.11	$34,887.58	
PFS	798	PHE	NE	150	__TC	Fire Protection - Fleet Specialist (KT)	$1,885.61	$3,281.69	
PFS	798	PHE	NE	150	__TC	Fire Protection - OHSS (EY)	$1,993.86	$3,435.04	
PFS	798	PHE	NE	150	__TC	Fire Protection - OHSS (JM)	$1,885.61	$3,281.69	
PFS	798	PHE	NE	150			$45,804.16	$79,615.24	#20
PFS	798	PHE	NE	205		Fire Protection - Purchases	$26,829.17	$46,650.00	
PFS	798	PHE	NE	205			$26,829.17	$46,650.00	#47
PFS	798	PHE	NE	501		Fire Protection - Outside Services	$12,833.33	$22,000.00	
PFS	798	PHE	NE	501			$12,833.33	$22,000.00	#60
PFS	798	PHE	NE	515		Fire Protection - Corporate Membership	$70.00	$120.00	

12/28/2004 *ENTER: Direct RA Cost

*RA #	*Ac...	*Lo...	*In...	*E...	*Labor...	Line Item	FY04	FY05	
PFS	950	PHE	NE	150	__FS	Risk Management - Safety Director	$1,614.43	$2,746.89	
PFS	950	PHE	NE	150	__TC	Risk Management - Fleet Specialist (KT)	$3,172.05	$5,520.60	
PFS	950	PHE	NE	150	__TC	Risk Management - OHSS (AS)	$1,321.69	$2,300.25	
PFS	950	PHE	NE	150	__TC	Risk Management - OHSS (EY)	$1,329.24	$2,300.25	
PFS	950	PHE	NE	150	__TC	Risk Management - OHSS (JM)	$1,251.20	$2,177.57	
PFS	950	PHE	NE	150	__TC	Risk Management - PSafety Specialist (RP)	$3,313.03	$5,735.29	
PFS	950	PHE	NE	150			$12,001.63	$20,780.85	#26
PFS	950	PHE	NE	205		Risk Management - Purchases	$1,400.00	$2,400.00	
PFS	950	PHE	NE	205			$1,400.00	$2,400.00	#49
PFS	950						$13,401.63	$23,180.85	
							$719,885.58	$1,234,681.80	

Oshiro, Pat

From: Harris, Russ
Sent: Friday, December 17, 2004 3:17 PM
To: Oshiro, Pat; Lee, Jamie; Young, Patti; Murakami, Blane
Cc: Keliinoi, Willie
Subject: RE: Rate Case Information Request - Workers Compensation "Other" Costs (budgeted non-labor direct costs)

Sorry, I had some "On-costs" in here so I will delete these and the list is much shorter

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From: Harris, Russ
Sent: Thursday, December 16, 2004 2:16 PM
To: Oshiro, Pat; Lee, Jamie; Young, Patti
Cc: Keliinoi, Willie
Subject: Rate Case Information Request - Workers Compensation "Other" Costs (budgeted non-labor direct costs)

The following shows projected 2005 costs from your area. Please confirm who is responsible for calculating these and provide details of the calculations including copies of spreadsheet files and paper workpapers and other analyses. Please provide by Dec. 27 so we can blend your response with our consolidated response to Reg Affairs.

Ho, Karen

From: Oshiro, Pat
Sent: Monday, September 16, 2002 3:29 PM
To: Ho, Karen
Subject: FW: DAVID Price Increase

	2004	+3% 2005
Renaissance System	6210	6396
Support per Workstation 6 @ 414	2484	2559
	8694	8955

FYI - prices going up for Ren Maintenance from $5400 per year to $6210 per year and from $360 per year to $414 per year for workstation support fee.

Thanks
----Original Message----
From: Admin [mailto:Admin@davidcorp.com]
Sent: Thursday, September 12, 2002 12:26 PM
Subject: DAVID Price Increase

HECo (80%)	6956	7164
HELCo (10%)	869	896
MECo (10%)	869	896
	8694	8956

DAVID Corporation
130 Battery Street, 6th Floor
San Francisco, CA 94111
September 12, 2002
Dear Client,
This letter is to inform you of some important changes we have made to our Renaissance price schedule. In order to remain competitive in the industry and absorb the rise in costs to provide customer support, upgrades and enhancements, we have raised our fees. This increase is effective August 1, 2002 and is the first increase in 5 years.

We hope you'll agree that even with the new prices, our products and services remain an excellent value. The Renaissance system continues to improve based on your input and our newest release Renaissance v3.1 includes many of your wonderful enhancements! Additionally, our Client Services team will continue to provide the best quality service in this industry.

Below is the list of price changes. Please note that Custom Programming and Training prices have not changed

	Current	Increase
Single System License Fee	$18,000	$20,700
2nd System License Fee	$10,000	$11,500
Remote Site License Fee	$6,000	$6,900
Combined System Remote Site License	$10,000	$11,500
Per User License Fee	$300	$345

SUPPORT AND OTHER SERVICES

WC or Liability	$5,400/year	$6,210
WC and Liability	$9,000/year	$10,350
Single System Remote Site	$2,700/year	$3,105
Combined Remote Site	$5,400/year	$6,210
Per Workstation Support Fee	$360/year	$414

PER USER LICENSE FEE DISCOUNTS

1st to 25th user	2000	360	$2,300	$414
26th to 50th user	1750	315	$2,013	$362
51st to 75th user	1500	270	$1,725	$311
76th to 100th user	1250	225	$1,438	$259
101st and greater	1000	180	$1,150	$207

We believe this price increase will help us widen our product offerings, improve existing products and enable DAVID Corporation to be the best software company in the Risk Management industry.

Sincerely,
Ciony Rapadas
Vice-President of Operations

DAVID CORPORATION

INVOICE# 5641
DATE August 05, 2002
CLIENT 330

SOLD

Hawaiian Electric Company Inc
P.O. Box 2750
Honolulu, HI 96840-0001
PURCHASE ORDER - ~~P00135~~ P41757
Disability Mgmt. PW

Attn Ann Strong

SHIP TO:

Hawaiian Electric Company Inc
P.O. 2750
Honolulu, HI 96840-0001

Attn Patricia Oshiro

ANNUAL SOFTWARE SUPPORT : OCTOBER 1, 2002 - SEPTEMBER 30, 2003

QUANTITY	DESCRIPTION	UNIT PRICE	PRICE
1.00	RENAISSANCE SYSTEM	$5,400.00	$5,400.00
6.00	SUPPORT PER WORKSTATION	$360.00	$2,160.00

TOTAL BEFORE TAX	**$7,560.00**
STATE TAX	$0.00
COUNTY TAX	$0.00
TOTAL DUE	**$7,560.00**

INTEREST WILL BE CHARGED AT 1.5 %PER MONTH ON ACCOUNTS UNPAID 60 DAYS AFTER THE INVOICE DATE

PLEASE INCLUDE YOUR INVOICE NUMBER ON YOUR CHECK

REMIT TO: DAVID Corporation, Dept.CH 10667, Palatine, IL 60055-0667

PHONE:415-362-4555

NonLabor Input Sheet - NonProject/NonProgram
2005

Resp Area (RA) PFB

Prepared by _____
Date _____

Dimension tab card								Rates tab card	Units tab card													2003
Line Item	RA	Act	Loc	Ind	Proj	BE	Lbr Class	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Recycled
																				TOTAL		
EAP Renewal		780	PHE	NE	NPFZZZZZ	501		no escalation			7,700			7,700			7,700			7,700		
Professional Liability Ins		780	PHE	NE	NPFZZZZZ	501		no escalation							100							
IAM Answering Service		780	PHE	NE	NPFZZZZZ	501		no escalation	285	285	285	285	285	285	285	285	285	285	285	285		
IAM - Printing		780	PHE	NE	NPFZZZZZ	206		no escalation						250						250		
Medical Consulting		780	PHE	NE	NPFZZZZZ	501		no escalation	2,083	2,083	3,333	2,083	2,083	3,333	2,083	2,083	3,333	2,083	2,083	3,333		
Health Screenings		780	PHE	NE	NPFZZZZZ	501		no escalation			750			750			750			750		
																				TOTAL	67,580	

Russ-
The $3,000 is for Flu shots. We've kept that amount for years.

Karen

#57

Flu Shots

CA-IR-2
DOCKET NO. 04-0113
HECO T-14
ATTACHMENT 16
PAGE 5 OF 5

S:\Management\Accounting\Maccitbud\Forecast\Formsilbudcst Input Form - Noni shw2003.xls

71	925 INJURIES & DAMAGES	953 Prov Risk Mgt Svcs-WC	Comp & Ben	PPW	530	$1,156,191

Note: Details of calculations and the basis for Line Item 71, which is in excess of $50,000, is covered in detail in HECO T-14, Docket No. 04-0113, page 20, line 23 through page 24, line 17.

CA-IR-1

General Information Requests

For each of the HECO witnesses who sponsor test period budgeted labor direct expense amounts, please provide the following information:

a. Identify each employee involved in preparation of budgeted staffing and associated labor direct expense amounts included in the witnesses' portion of the rate case test period budget.

b. Provide complete copies of all calculations, spreadsheet files, "pencil" workpapers, surveys and other analyses performed by each of the employees identified in response to part (a), documenting all work done to determine required staffing levels and overtime hours by Department, RA, Activity and NARUC Account.

c. Describe the actual force level that existed at the date the budget was prepared or otherwise served as a base for purposes of preparing the budget level.

d. For each budgeted employee position that is added to existing actual force levels (as the date the budget was prepared), **explain** the analyses undertaken to determine that each added position was necessary and should be filled in order to meet present or anticipated needs.

Dept	Manager	Other Employees
Customer Installation Dept. (CID)	Earle Ifuku	Darlene Bajadali
Compensation & Benefits	Julie Price	Karen Ho, Phyllis Hanta, Myra O'Brien, Patricia Oshiro
Industrial Relations (IR)	Michael McInerny	Lisa Hanabusa, Jeri Morimatsu
Safety Securities & Facilities (SSF)	Jim Beavers	Joycelynn Chun
Workforce Staffing & Development (WFSD)	Faye Chiogioji	Nina Agbayani, Jeff Furumura, Alma Freitas, Danny Ishii, Lani Joseph, Jason Choi, Tammy Nakao

b. Each activity includes labor hours forecasted to that activity by many individuals. Input sheets and supporting workpapers by department are provided as Attachments 2-7. Input sheets are by individual positions and labor hours for each activity are coded as a,b,c, etc. to correspond with the activity totals on Attachment 1.

c. The actual force level that was used for purposes of preparing the budget level of labor expenses in Accounts 926000 and 926010 is as follows:

d.

Dept.	No. of Employees
CID	2
Compensation & Benefits	11
IR	2
SSF	1
WFSD	6

e. At the date the budget was prepared the Compensation & Benefits Dept. had labor charges for 10 employees with one vacant position.

f. N/A

g. N/A

CA-T-1 Attachment 1.xls\Labor

NARUC Account 926000
Account Blk B38 A&G Operation
Direct Labor

Item No.	Dept	RA	Resp Area	Proj	Act	*	Loc	EE	Hours	FY05	Reference
1	CID	PWX	Engineering & Meter	NPWZZZZZ	786	aa	PDO	150	120	$ 4,102.20	Attch 2
2	**CID**								**120**	**$ 4,102.20**	
3	Comp & Ben	PFB	Employee Benefits	NPFZZZZZ	700	a	PHE	150	242	$ 8,156.96	Attch 3
4					701	b			662	$ 20,303.54	"
5					721	c			65	$ 1,993.55	"
6					745	d			11	$ 353.90	"
7					749	e			86	$ 2,594.42	"
8					760	f			43	$ 1,330.95	"
9					761	g			12	$ 362.64	"
10					776	h			2,988	$ 118,295.70	"
11					777	i			224	$ 6,133.78	"
12					779	j			3,219	$ 83,728.50	"
13					780	k			3,695	$ 101,277.03	"
14					785	l			76	$ 2,476.26	"
15					789	m			17	$ 486.10	"
16					797	n			8	$ 245.36	"
17					842	o			10	$ 237.20	"
18					843	p			86	$ 2,637.62	"
19				P0000128	788				48	$ 1,446.24	See Project No. P0000128
20				P0000526	735				500	$ 25,203.50	See Project No. P0000526
21	**Comp & Ben**	**PFB**	**Employee Benefits**						**11,992**	**$ 377,263.25**	
22	Comp & Ben	PPW	Disablity Management	NPFZZZZZ	776	h	PHE	150	295	$ 11,280.67	Attch 4
23					780	k			864	$ 28,340.64	"
24	**Comp & Ben**	**PPW**	**Disablity Management**						**1,159**	**$ 39,621.31**	
25	**Comp & Ben**								**13,151**	**$ 416,884.56**	
26	Ind Rel	PPA	Admin-Ind Rel	NPPZZZZZ	786	bb	PHE	150	180	$ 4,269.60	Attch 5
27	**Ind Rel**	**PPA**	**Admin-Ind Rel**						**180**	**$ 4,269.60**	
28	Ind Rel	PPI	Labor Rel & Wage Adm	NPPZZZZZ	786	cc	PHE	150	288	$ 8,832.96	Attch 5
29	**Ind Rel**	**PPI**	**Labor Rel & Wage Adm**						**288**	**$ 8,832.96**	
30	**Ind Rel**								**468**	**$ 13,102.56**	
31	SSF	PHA	Admin-Facilities	NPHZZZZZ	935	dd	PHE	150	12	$ 284.64	Attch 6
32	**SSF**	**PHA**	**Admin-Facilities**						**12**	**$ 284.64**	
33	SSF	PHF	Facilities Planning	P0000498	935		WRD	150	96	$ 2,944.32	See Project No. 0000498
34	**SSF**	**PHF**	**Facilities Planning**						**96**	**$ 2,944.32**	
35	**SSF**								**108**	**$ 3,228.96**	
36	WFSD	PFA	Admin-WFS & Dev	P0000128	788		PHE	150	140	$ 5,378.56	See Project No. P0000128
37	**WFSD**	**PFA**	**Admin-WFS & Dev**						**140**	**$ 5,378.56**	
38	WFSD	PFD	Client Svcs & Consult	NPFZZZZZ	785	ee	PHE	150	593	$ 18,187.31	Attch 7
39					788	ff			20	$ 613.40	"
40					789	gg			70	$ 2,146.90	"
41				P0000128	788				462	$ 14,169.54	See Project No. P0000128
42	**WFSD**	**PFD**	**Client Svcs & Consult**						**1,145**	**$ 35,117.15**	
43	WFSD	PFI	Org Development	P0000128	780		PHE	150	172	$ 4,459.43	See Project No. P0000128
44					787				113	$ 3,767.33	"
45					788				498	$ 15,273.70	"
46	**WFSD**	**PFI**	**Org Development**						**783**	**$ 23,500.46**	
47	**WFSD**								**2,068**	**$ 63,996.17**	
48	**Total 926000**								**15,915**	**$ 501,314.45**	**HECO-WP-101(F), pg. 866**

* See individual input sheets for labor hours by activity

CA-IR-1Attachment 1, pg. 2.xls\Labor

Account 926010
Acct Blk B38 A&G Operation
Labor

Item No.	Dept	RA	Resp Area	Proj	Act *	Loc	EE	Hours	FY05	Reference
1	Comp & Ben	PFB	Employee Benefits	NPFZZZZZ	778 q	PHE	150	1,329	$ 34,167.05	Attch 3
2			Employee Benefits	P0001010				708	$ 18,235.58	See Project No. P0001010
3	**Comp & Ben**							**2,037**	**$ 52,402.63**	
4	WFSD	PFA	Admin-WFS & Dev	NPFZZZZZ	778 hh	PHE	150	20	$ 613.40	Attch 7
5	**WFSD**							**20**	**$ 613.40**	
6	**Total 926010 Labor**							**2,057**	**$ 53,016.03**	**HECO-WP-101(F), pg. 867**

* See individual input sheets for labor hours by activity

Labor Input Sheet - NonProject
2005

Prepared by _____
Date _____

		Rates tab card	Units tab card												
E	Labor Class	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
			(enter employee count in "Units tab card")												
	mtengr	Available Hours	2	2	2	2	2	2	2	2	2	2	2	2	24
			(enter hours in "Units tab card")												
	mtengr	mtengr	0	16	16	0	16	16	16	16	16	16	32	32	192
	mtengr	mtengr	16	16	16	16	16	16	16	16	16	16	16	16	192
	mtengr	mtengr	8	8	8	8	8	8	8	8	8	8	8	8	96
	mtengr	mtengr													0
	mtengr	mtengr	15	15	15	15	15	15	15	15	15	15	15	15	180
	mtengr	mtengr	26	26	26	26	26	26	26	26	26	26	26	26	312
	mtengr	mtengr	8	8	8	8	8	5	8	8	8	8	8	5	90
	mtengr	mtengr	17	13	17	17	17	17	17	17	17	17	17	17	200
	mtengr	mtengr	1	1	1	1	1	4	1	1	1	1	1	1	15
	mtengr	mtengr	3	3	3	3	3	3	3	3	3	3	3	3	36
	mtengr	mtengr	20	20	20	20	20	20	20	20	20	20	20	20	240
	mtengr	mtengr	3	3	3	3	3	3	3	3	3	3	3	3	36
	mtengr	mtengr	7	7	7	7	7	7	7	7	7	7	7	7	84
	mtengr	mtengr	12	8	12	12	12	12	12	12	12	12	12	12	140
	mtengr	mtengr	7	7	7	7	7	7	7	7	7	7	7	7	84
	mtengr	mtengr	3	3	3	3	3	3	3	3	3	3	3	3	36
	mtengr	mtengr	3	3	3	3	3	3	3	3	3	3	3	3	36
	al NonProj/Pgm Demand		149	157	165	149	165	165	165	165	165	165	181	178	1,969
	al Supply		336	320	368	336	352	352	336	368	352	336	352	352	4,160
			187	163	203	187	187	187	171	203	187	171	171	174	2,191
	3 (1/2), 12/26, 12/30 (1/2)		0	8	8	0	8	8	8	8	8	8	16	16	96
			168	160	184	168	176	176	168	184	176	168	176	176	2080

'otal Supply hours due to Project Demand hours (which are budgeted in the Project file)

12/27/2004

CA-IR-1
DOCKET NO. 04-0113
HECO T-15
ATTACHMENT 2
PAGE 1 OF 2

nput Sheet - NonProject
2005

Prepared by _____
Date _____

nb card	Units tab card												
ink To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
(enter employee count in "Units tab card")													
Hours	1	1	1	1	1	1	1	1	1	1	1	1	12
(enter hours in "Units tab card")													
	0	8	8	0	8	8	8	16	8	8	16	16	96
	16	16	16	16	16	16	16	16	16	16	16	16	192
													0
													0
	19	19	19	19	19	19	19	19	19	19	19	19	228
	2	2	2	2	2	2	2	2	2	2	2	2	24
													0
	8	8	8	8	8	8	8	8	8	8	8	8	96
	42	46	42	42	42	39	42	42	42	42	42	42	505
	2	2	2	2	2	2	2	2	2	2	2	2	24
	5	5	5	5	5	5	5	5	5	5	5	5	60
	3	3	3	3	3	3	3	3	3	3	3	3	36
	1	1	1	1	1	4	1	1	1	1	1	1	15
	4	4	4	4	4	5	4	4	4	4	4	5	50
	4	4	4	4	4	4	4	4	4	4	4	4	48
	3	3	3	3	3	3	3	3	3	3	3	3	36
	1	1	1	1	1	1	1	1	1	1	1	1	12
	3	3	3	3	3	2	3	3	3	3	3	2	34
	3	3	3	3	3	3	3	3	3	3	3	3	36
	3	3	3	3	3	3	3	3	3	3	3	3	36
	2	2	2	2	2	2	2	2	2	2	2	2	24
	2	2	2	2	2	2	2	2	2	2	2	2	24
	123	135	131	123	131	131	131	131	131	131	139	139	1,576
	168	160	184	168	176	176	168	184	176	168	176	176	2,080
	45	25	53	45	45	45	37	53	45	37	37	37	504
	0	8	8	0	8	8	8	8	8	8	16	16	96
	168	160	184	168	176	176	168	184	176	168	176	176	2080

99

Project Demand hours (which are budgeted in the Project file)

12/27/2004

2005 [illegible] FB-E.xls
Revis[illegible] /17/2004

[illegible]bor Input Sheet - NonProject
2005

Prepared by KHO
Date Revised: 2/17/2004

[illegible]ates tab card	Units tab card												
Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
(enter employee count in "Units tab card")													
Available Hours	1	1	1	1	1	1	1	1	1	1	1	1	12
(enter hours in "Units tab card")													
	0	8	8	0	8	8	8	8	8	8	16	16	96
				40							40		80
													0
													0
	2	2	3	2	2	6	6	2	2	2	2	3	34 a
													0
													0
													0
													0
	1												1 d
													0
	1	1											2
		3											3 e
	67	130	163	94	103	64	71	81	142	128	115	149	1,307 h
	1	1	1		1	1	1	1		1	1	1	10 i
		1		1		1		1		1			5
			1			1			1			1	4
				1				1				1	3
													0
			1			1			1			1	4 g
		1		2		1		2		1		1	8
		1		1		1		1		1			5
		2		2		2		2		2			10
		2		2		2		2		1			9
													0
	2	3	2	3	2	4	2	3	2	3	2	3	31 j
						1							1
						1							1
						1							1
													0
						1							1 k

2005 FB-E.xls
Revis 17/2004

Units tab card

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
													0
	13												13
													0
	1												1
	80	5	5	20	60	80	80	80	20	20	0	0	450
	168	160	184	168	176	176	168	184	176	168	176	176	2,080
	168	160	184	168	176	176	168	184	176	168	176	176	2,080
	0	8	8	0	8	8	8	8	8	8	16	16	96
	168	160	184	168	176	176	168	184	176	168	176	176	2080
	0	0	0	0	0	0	0	0	0	0	0	0	0

oject Demand hours (which are budgeted in the Project file)

2003 Actual Hours - JPrice

Sum of NO_OF_HI desc

process_date	APPRISE Mgrs Grp Mtg (MGM)	ASB - HEIRS ADMINISTRATION	ASB - PENSION ADMINISTRATION	Assist w/ Internal Audits	Attend Training	Develop & Administer Business Plans	Direct charge to account	Ee Trng & Dev Needs; PDS Prep/Mtg	Ellipse Team costs	Empl Benefits Admin & General Exp	H18909 001 FLEX ADMINISTRATION	H18926 001 HEL - ADMINISTRATION	H18927 001 HEIRS ADMINISTRATION	H18927 001 HEL - OPEB ADMINISTRATION	H18927 001 HEL - PENSION ADMINISTRATION	HECO COMP PROJECT	HEI - ADMINISTRATION	HEI - FLEX ADMINISTRATION	HEI - HEIRS ADMINISTRATION	HEI - OPEB ADMINISTRATION	HEI - PENSION ADMINISTRATION	HEI EAL ADMIN	HEI-Maintain Rel w/ Board of Directors	HEI - MAINTAIN REL W/ BOARD OF DIRECTORS	HIPAA Task Force
adjusted hrs	1	12	17	3	8	34	23	13	0	1742	4	1	9	2	5	0	1	5	8	2	1	0	2	0	0
adjusted percentage of productive hrs	0.1%	0.0%	0.4%	0.2%	0.0%	1.8%	1.2%	0.7%	0.0%	89.4%	0.2%	0.0%	0.1%	0.1%	0.3%	0.0%	0.0%	0.3%	0.1%	0.1%	0.1%	0.0%	0.1%	0.0%	0.0%

+23
+24

1789
150
1839

755

2003 Actual Hours - JPrice

Sum of NO_OF_HI

process_date	HPC - FLEX ADMINISTRATION	HPC - HEIRS ADMINISTRATION	HPC - PENSION ADMINISTRATION	Incident Command Training Drill - 5/7/03	Lobbying activities	M15806 001 FLEX ADMINISTRATION	M15811 001 HEIRS ADMINISTRATION	M15811 001 OPEB ADMINISTRATION	M15811 001 PENSION ADMINISTRATION	M15812 001 ADMINISTRATION	Maintain Rel w/ BOD; Proxy Statements	Maintain Rel w/ Legislature & Gov't	MAD-MAINTAIN REL W/ BOARD OF DIRECTORS	NEGOTIATIONS - 2003	Negotiations 2003	PEC - HEIRS ADMINISTRATION	PHE - ADMINISTRATION	PHE - FLEX ADMINISTRATION	PHE - HEIRS ADMINISTRATION	PHE - OPEB ADMINISTRATION	PHE - PENSION ADMINISTRATION	Prepare time sheet/Time entry process	PVT - HEIRS ADMINISTRATION	Staffing	TOOTS Charges	Grand Total
adjusted hrs	0	0	0	5	0	3	2	2	2	1	0	1	0	0	0	0	1	4	3	28	16	18	1	24	0	1948
adjusted percentage of productive hrs	0.0%	0.0%	0.0%	0.3%	0.0%	0.2%	0.1%	0.1%	0.2%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.5%	0.9%	0.5%	0.1%	1.2%	0.0%	100.0%

2003 Actual Hours - JPrice

Sum of NO_OF_HI	
process_date	
adjusted hrs	1948
adjusted percentage of productive hrs	

Ho, Karen

From: Ho, Karen
Sent: Saturday, February 07, 2004 3:04 PM
To: zz$HR-FB; zz$HR-FC
Subject: RE: Labor Forecast for 2005

Keep in mind that this is just a forecast so all I need is your best estimate. Thanks!

-----Original Message-----
From: Ho, Karen
Sent: Saturday, February 07, 2004 2:59 PM
To: zz$HR-FB; zz$HR-FC
Subject: Labor Forecast for 2005
Importance: High

Hi-

I am preparing our department's labor forecast for 2005 and desperately need your help. In your in-box is a spreadsheet of your 2003 actual hours charged to the different activities. The column headings are the various activities that you have performed. At the bottom of the spreadsheet is the percentage of productive hours (the total hours charged to that activity divided by the grand total of the last column). Please review the report and various activities that you have charged your time to. There maybe some activities that you performed in 2003 that doesn't necessarily apply to 2005. Therefore, please make the following adjustments:

- cross out the activities that does not apply to 2005
- add activities that you will be doing in 2005 that do not appear on the report and include the % of productive time
- adjust the percentage of productive hours (i.e., if you are not performing a particular activity in 2005, that time is spent doing something else; therefore, you would need to add that time to another activity)

Also, please let me know when you plan to take vacation in 2005. I need the hours by month. This will help me determine the total productive hours (total available hours per month minus vacation/holidays).

For your information, labor hours are entered into the Pillar budgeting system by hours per month. I need to enter vacation by hours per month and labor by activity by hours per month. Yes, a very tedious process!

DEADLINE: Return the spreadsheet with your changes to me ASAP or by end of the day on Monday, February 9. I need time to enter all this on Pillar and my deadline is Noon on February 11.

CONFUSING?...QUESTIONS?...Please see me if you have any questions.

Thank you!
Karen

2005
Vacation April 40
Nov. 40

2003 Actual Hours - JPrice

	776	778	780	779	779	779		780	778	779	779	779				
...gate Team ...ts	Empl Benefits Admin & General Exp	H18909 001 FLEX ADMINISTRATION	H18926 001 HEL - ADMINISTRATION	H18927 001 HDRS ADMINISTRATION	H18927 001 HEL - OPEB ADMINISTRATION	H18927 001 HEL - PENSION ADMINISTRATION	HECO COMP PROJECT	HEI - ADMINISTRATION	HEI - FLEX ADMINISTRATION	HEI - HDRS ADMINISTRATION	HEI - OPEB ADMINISTRATION	HEI - PENSION ADMINISTRATION	HEI SAL ADMIN	HEI-Maintain Rel w/ Board of Directors	HEL-MAINTAIN REL W/ BOARD OF DIRECTORS	HIPAA TSA Force
	16.00															
	23.25															
	26.25													0.50		
	31.50						1.50									
	30.00					0.25							0.50			
	32.00											0.25				2.00
	33.00													0.50		1.00
	13.00			0.48						0.48				0.50		2.00
	25.25	0.10							0.10					0.37	0.37	
	27.25				0.25						0.25					
	28.75	0.37		1.00					0.37	1.00						
	37.50															
	38.75					0.25										1.00
	22.50															
	34.75															4.00
	27.75															4.50
	35.75															4.00
	17.75															6.00
	14.50					0.25						0.50				
1.00	31.00															2.00
	34.75															3.00
	33.75															6.00
	25.75															6.00
	29.75	0.33														9.00
	26.75															
	34.75															
	31.50					0.92										2.00
	7.75															
	22.50															
	31.25				0.67	0.33										
	27.00															
	28.25		0.62		0.62	0.50		0.60			0.62	0.50				3.00
	29.00															
	4.75															3.00
	37.75					0.50										
	27.25															1.50
	23.75															
	23.00	1.23							0.87							
	6.75	0.50							0.50							
	24.50			0.50		0.25			1.00							
	33.50			0.50	0.75					0.50	0.75					
	33.25	0.37		0.30		0.50			1.37	0.30						
	6.00															
	17.50															
	11.50					0.25										
	2.75	0.03		0.03	0.03	0.03			0.03	0.03	0.03	0.03				
	16.00															
	6.50															
	14.75															
	23.50	0.25				0.25			0.25							
	25.25	0.75							0.75							4.00
	22.00															4.00
	37.25															
	14.25					0.25										
	37.25															
	24.50					0.50										2.00
	20.00															
1.00	1418.25	3.93	0.62	2.82	2.32	5.03	1.50	0.60	5.23	2.32	1.65	1.26	0.50	1.87	0.37	76.00
0.1%	72.8%	0.2%	0.0%	0.1%	0.1%	0.3%	0.1%	0.0%	0.3%	0.1%	0.1%	0.1%	0.0%	0.1%	0.0%	3.9%

89%

TOOTS Charges	Grand Total
	16.00
	40.00
	40.00
	40.00
	40.00
	40.00
	40.00
	37.00
	32.00
0.50	32.00
	40.00
	40.00
	40.00
	24.00
	43.00
	32.00
	40.00
	24.00
	16.00
	40.00
	40.00
	40.00
	32.00
	40.00
	32.00
	40.00
	40.00
	8.00
	24.00
	40.00
	40.50
	40.50
	32.00
	8.00
	40.00
	32.00
	40.00
	40.00
	16.00
	32.00
	40.00
	40.00
	16.00
	24.00
	40.00
	24.00
	40.00
	43.50
	8.00
	16.00
	40.00
	32.00
	40.50
	32.00
	40.00
	16.00
	40.00
	28.00
	20.00
0.50	1949.00
0.0%	100.0%

SURNAME	FIRST_NAME	SECOND_NAME	process_date	trans_date	type	cost to	desc	assign to	work group	cost center	PROJECT_NO	wotype	maint	NO_OF_HOURS_L
PRICE	JULIE	K	1/20/2003	1/16/2003	A	PFB753PHENENPFZZZZZ	Direct charge to account							2.00
PRICE	JULIE	K	1/27/2003	1/21/2003	A	PFB745PHENENPFZZZZZ	Direct charge to account							1.50
PRICE	JULIE	K	2/3/2003	1/27/2003	A	PFB745PHENENPFZZZZZ	Direct charge to account							3.00
PRICE	JULIE	K	2/3/2003	1/28/2003	A	PFB745PHENENPFZZZZZ	Direct charge to account							5.00
PRICE	JULIE	K	2/10/2003	2/7/2003	A	PFB745PHENENPFZZZZZ	Direct charge to account							0.50
PRICE	JULIE	K	2/10/2003	2/6/2003	A	PFB753PHENENPFZZZZZ	Direct charge to account							3.00
PRICE	JULIE	K	2/18/2003	2/12/2003	A	PFB745PHENENPFZZZZZ	Direct charge to account							0.50
PRICE	JULIE	K	2/28/2003	2/25/2003	A	PFB745PHENENPFZZZZZ	Direct charge to account							0.50
PRICE	JULIE	K	3/10/2003	3/4/2003	A	PFB807PHENENPFZZZZZ	Direct charge to account							2.00
PRICE	JULIE	K	3/17/2003	3/12/2003	A	PFB753PHENENPFZZZZZ	Direct charge to account							3.00
PRICE	JULIE	K	6/23/2003	6/19/2003	A	PFB753PHENENPFZZZZZ	Direct charge to account							2.00

2004-2005 forecast

kho

8/4/2003

ct	Nov	Dec	Total
1	1	1	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
20			[redacted]
			[redacted]
			[redacted]
			[redacted]
			[redacted]
			[redacted]
8		1	[redacted]
4		2	[redacted]
4		2	[redacted]
42	52	52	[redacted]
37	10	17 18	[redacted]
70	98	90	[redacted]
			[redacted]
			[redacted]
			[redacted]
168	176	176	2,080
168	176	176	2,080
8	16	16	96
68	176	176	2080
0	0	0	0

h 189

K 1108

Nicole

ıployee Labor Hours Report

ECO	Work Order #:	WO Type:	*	Emp 1:	34382	Emp 4:	
/01/2003	Task #:	Maint Type:	*	Emp 2:		Emp 5:	
/30/2003	Project #:	Sort By:	WO/Proj	Emp 3:		Emp 6:	

Labor Cost To	Description	Assign To	Work Group	Cost Center	Project #	WT	MT	Hours
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	2.50
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	1.00
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	1.00
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	1.00
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	5.00
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	5.00
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	3.50
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	3.50
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	3.50
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	2.00
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	1.00
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	1.50
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	4.50
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	2.00
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	4.00
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	2.00
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	2.00
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	4.00
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	6.00
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	4.00
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	2.00
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	2.00
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	2.00
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	3.00
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	1.50
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	3.00
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	4.00
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	4.00
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	2.00
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	2.00
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	3.00
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	2.00
000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	2.00

1706 Employee Labor Hours Report

Report Parameters

District:	HECO	Work Order #:		WO Type:	*	Emp 1:	34382	Emp 4:	
Date From:	01/01/2003	Task #:		Maint Type:	*	Emp 2:		Emp 5:	
Date To:	06/30/2003	Project #:		Sort By:	WO/Proj	Emp 3:		Emp 6:	
Account:									

Date	Type	Labor Cost To	Description	Assign To	Work Group	Cost Center	Project #	WT	MT	Hours
4/17/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	2.00
4/2/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	2.00
4/22/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	4.00
4/23/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	6.00
4/24/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	2.00
4/28/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	4.00
4/29/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	4.00
4/3/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	2.50
4/30/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	4.00
4/7/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	2.50
4/8/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	2.00
4/9/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	2.00
5/1/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	4.00
5/12/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	4.00
5/13/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	4.00
5/14/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	4.00
5/15/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	5.00
5/16/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	6.50
5/19/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	4.00
5/2/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	5.00
5/20/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	4.00
5/21/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	4.00
5/22/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	4.00
5/27/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	6.50
5/28/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	5.00
5/5/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	2.00
5/6/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	6.00
5/7/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	1.00
5/8/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	4.00
5/9/2003	W	HR000010	HECO SAL ADMIN	0000020734		PFB775PHENENPFZZZZZ		ST	50	6.00
						Subtotal: HR000010				206.50
3/12/2003	W	HR000013	H13940 001 HELCO SAL ADMIN	0000020734		PFB775HELBENPFZZZZZ		ST	50	0.50
3/3/2003	W	HR000013	H13940 001 HELCO SAL ADMIN	0000020734		PFB775HELBENPFZZZZZ		ST	50	0.50
3/7/2003	W	HR000013	H13940 001 HELCO SAL ADMIN	0000020734		PFB775HELBENPFZZZZZ		ST	50	0.50

1706 Employee Labor Hours Report

Report Parameters

District:	HECO	Work Order #:	WO Type:	*	Emp 1:	34382	Emp 4:
Date From:	01/01/2003	Task #:	Maint Type:	*	Emp 2:		Emp 5:
Date To:	06/30/2003	Project #:	Sort By:	WO/Proj	Emp 3:		Emp 6:
Account:							

Date	Type	Labor Cost To	Description	Assign To	Work Group	Cost Center	Project #	WT	MT	Hours
4/22/2003	W	HR000013	H13940 001 HELCO SAL ADMIN	0000020734		PFB775HELBENPFZZZZZ		ST	50	1.00
4/23/2003	W	HR000013	H13940 001 HELCO SAL ADMIN	0000020734		PFB775HELBENPFZZZZZ		ST	50	1.00
						Subtotal: HR000013				3.50
3/12/2003	W	HR000016	M15799 001 MECO SAL ADMIN	0000020734		PFB775MAUBENPFZZZZZ	R0008492	ST	50	0.50
3/3/2003	W	HR000016	M15799 001 MECO SAL ADMIN	0000020734		PFB775MAUBENPFZZZZZ	R0008492	ST	50	0.50
3/7/2003	W	HR000016	M15799 001 MECO SAL ADMIN	0000020734		PFB775MAUBENPFZZZZZ	R0008492	ST	50	0.50
4/22/2003	W	HR000016	M15799 001 MECO SAL ADMIN	0000020734		PFB775MAUBENPFZZZZZ	R0008492	ST	50	1.00
4/23/2003	W	HR000016	M15799 001 MECO SAL ADMIN	0000020734		PFB775MAUBENPFZZZZZ	R0008492	ST	50	1.00
						Subtotal: HR000016				3.50
1/27/2003	W	HR000031	Empl Benefits Admin & General Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	3.50
1/28/2003	W	HR000031	Empl Benefits Admin & General Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	1.75
1/29/2003	W	HR000031	Empl Benefits Admin & General Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	1.50
1/31/2003	W	HR000031	Empl Benefits Admin & General Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	1.50
2/10/2003	W	HR000031	Empl Benefits Admin & General Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	2.00
2/11/2003	W	HR000031	Empl Benefits Admin & General Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	5.00
2/13/2003	W	HR000031	Empl Benefits Admin & General Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	1.00
2/14/2003	W	HR000031	Empl Benefits Admin & General Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	2.00
2/19/2003	W	HR000031	Empl Benefits Admin & General Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	3.00
2/20/2003	W	HR000031	Empl Benefits Admin & General Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	1.50
2/21/2003	W	HR000031	Empl Benefits Admin & General Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	4.00
2/25/2003	W	HR000031	Empl Benefits Admin & General Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	0.50
2/26/2003	W	HR000031	Empl Benefits Admin & General Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	1.00
2/3/2003	W	HR000031	Empl Benefits Admin & General Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	5.50
2/4/2003	W	HR000031	Empl Benefits Admin & General Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	2.00
2/5/2003	W	HR000031	Empl Benefits Admin & General Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	4.00
2/6/2003	W	HR000031	Empl Benefits Admin & General Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	2.00
2/7/2003	W	HR000031	Empl Benefits Admin & General Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	3.00
3/10/2003	W	HR000031	Empl Benefits Admin & General Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	2.50
3/11/2003	W	HR000031	Empl Benefits Admin & General Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	2.00
3/12/2003	W	HR000031	Empl Benefits Admin & General Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	2.50
3/13/2003	W	HR000031	Empl Benefits Admin & General Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	1.50
3/17/2003	W	HR000031	Empl Benefits Admin & General Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	2.50
3/18/2003	W	HR000031	Empl Benefits Admin & General Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	1.50
3/19/2003	W	HR000031	Empl Benefits Admin & General Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	2.00

*	Emp 1: 34382	Emp 4:	
*	Emp 2:	Emp 5:	
WO/Proj	Emp 3:	Emp 6:	

ign To	Work Group	Cost Center	Project #	WT	MT	Hours
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	8.00
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	2.50
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	3.50
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	1.00
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	2.00
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	4.00
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	0.50
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	1.00
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	3.50
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	2.50
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	2.50
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	0.50
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	8.00
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	2.00
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	2.00
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	1.00
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	4.00
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	4.00
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	4.00
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	4.00
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	4.00
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	3.00
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	1.50
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	1.00
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	3.50
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	2.00
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	6.00
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	1.00
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	4.00
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	4.00
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	1.00
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	2.00
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	2.00
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	1.00
020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	2.00

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WO Type:	*	*Emp 1:*	34382	*Emp 4:*	
Maint Type:	*	*Emp 2:*		*Emp 5:*	
Sort By:	*WO/Proj*	*Emp 3:*		*Emp 6:*	

	Assign To	Work Group	Cost Center	Project #	WT	MT	Hours
Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	1.00
Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	2.00
Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	2.00
Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	1.00
Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	3.00
Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	2.00
Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	7.00
Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	2.00
Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	1.00
Exp	0000020739		PFB776PHENENPFZZZZZ	R0001171	ST	50	2.00
			Subtotal: HR000031				180.75
	0000020739		PFB789PHENENPFZZZZZ		ST	50	1.00
	0000020739		PFB789PHENENPFZZZZZ		ST	50	2.50
			Subtotal: HR000893				3.50
& POs	0000020739		PFB842PHENENPFZZZZZ		ST	50	0.50
& POs	0000020739		PFB842PHENENPFZZZZZ		ST	50	1.00
& POs	0000020739		PFB842PHENENPFZZZZZ		ST	50	1.00
& POs	0000020739		PFB842PHENENPFZZZZZ		ST	50	1.00
& POs	0000020739		PFB842PHENENPFZZZZZ		ST	50	1.00
			Subtotal: HR000980				4.50
ocess	0000020739		PFB777PHENENPFZZZZZ		ST	50	0.50
ocess	0000020739		PFB777PHENENPFZZZZZ		ST	50	0.50
ocess	0000020739		PFB777PHENENPFZZZZZ		ST	50	3.00
ocess	0000020739		PFB777PHENENPFZZZZZ		ST	50	1.00
ocess	0000020739		PFB777PHENENPFZZZZZ		ST	50	0.50
ocess	0000020739		PFB777PHENENPFZZZZZ		ST	50	2.00
ocess	0000020739		PFB777PHENENPFZZZZZ		ST	50	2.00
ocess	0000020739		PFB777PHENENPFZZZZZ		ST	50	2.00
ocess	0000020739		PFB777PHENENPFZZZZZ		ST	50	1.50
ocess	0000020739		PFB777PHENENPFZZZZZ		ST	50	2.50
ocess	0000020739		PFB777PHENENPFZZZZZ		ST	50	0.50
ocess	0000020739		PFB777PHENENPFZZZZZ		ST	50	2.00
ocess	0000020739		PFB777PHENENPFZZZZZ		ST	50	2.00

*	Emp 1: 34382	Emp 4:	
*	Emp 2:	Emp 5:	
WO/Proj	Emp 3:	Emp 6:	

ssign To	Work Group	Cost Center	Project #	WT	MT	Hours
)0020739		PFB777PHENENPFZZZZZ		ST	50	1.50
)0020739		PFB777PHENENPFZZZZZ		ST	50	2.50
)0020739		PFB777PHENENPFZZZZZ		ST	50	1.00
)0020739		PFB777PHENENPFZZZZZ		ST	50	1.50
)0020739		PFB776PHENENPFZZZZZ		ST	50	1.50
)0020739		PFB777PHENENPFZZZZZ		ST	50	1.50
)0020739		PFB777PHENENPFZZZZZ		ST	50	1.50
		Subtotal: HR000989				31.00
)0020734		PFB723PHENENPFZZZZZ		ST	50	1.00
)0020734		PFB723PHENENPFZZZZZ		ST	50	1.50
0020734		PFB723PHENENPFZZZZZ		ST	50	2.50
0020734		PFB723PHENENPFZZZZZ		ST	50	1.50
		Subtotal: HR001158				6.50
)0020734		PFB723HELBENPFZZZZZ		ST	50	0.50
)0020734		PFB723HELBENPFZZZZZ		ST	50	0.50
)0020734		PFB723HELBENPFZZZZZ		ST	50	0.50
)020734		PFB723HELBENPFZZZZZ		ST	50	0.50
		Subtotal: HR001159				2.00
)020734		PFB723PHENENPFZZZZZ		ST	50	1.00
)020734		PFB723PHENENPFZZZZZ		ST	50	1.50
)020734		PFB723PHENENPFZZZZZ		ST	50	2.50
)020734		PFB723PHENENPFZZZZZ		ST	50	1.50
		Subtotal: HR001168				6.50
)020734		PFB723HELBENPFZZZZZ		ST	50	1.00
)020734		PFB723HELBENPFZZZZZ		ST	50	1.00
)020734		PFB723HELBENPFZZZZZ		ST	50	1.00
)020734		PFB723HELBENPFZZZZZ		ST	50	1.00
		Subtotal: HR001169				4.00
)020734		PFB723MAUBENPFZZZZZ		ST	50	0.50
)020734		PFB723MAUBENPFZZZZZ		ST	50	0.50
)020734		PFB723MAUBENPFZZZZZ		ST	50	0.50
)020734		PFB723MAUBENPFZZZZZ		ST	50	0.50

ıployee Labor Hours Report

ECO	Work Order #:	WO Type:	*	Emp 1:	34382	Emp 4:	
/01/2003	Task #:	Maint Type:	*	Emp 2:		Emp 5:	
/30/2003	Project #:	Sort By:	WO/Proj	Emp 3:		Emp 6:	

Labor Cost To	Description	Assign To	Work Group	Cost Center	Project #	WT	MT	Hours
				Subtotal: HR001170				2.00
001272	Dev,Mnge,Admin Employee Pol,Prac & Proc	0000020739		PFB765PHENENPFZZZZZ		ST	50	1.00
001272	Dev,Mnge,Admin Employee Pol,Prac & Proc	0000020739		PFB765PHENENPFZZZZZ		ST	50	0.50
001272	Dev,Mnge,Admin Employee Pol,Prac & Proc	0000020739		PFB765PHENENPFZZZZZ		ST	50	2.00
				Subtotal: HR001272				3.50
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	2.00
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	4.75
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	5.50
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	7.50
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	6.00
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	2.00
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	2.00
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	8.00
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	2.00
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	1.00
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	2.50
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	1.50
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	3.00
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	2.00
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	3.00
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	2.50
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	7.00
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	1.00
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	3.00
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	2.50
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	4.00
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	4.00
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	4.00
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	3.00
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	2.00
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	1.50
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	1.50
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	1.00
001322	Integrated Absence Mgmt / Case Mgmt	0000034172		PFB780PHENENPFZZZZZ		ST	50	6.00

4:
5:
6:

WT	*MT*	*Hours*
ST	50	1.50
ST	50	2.50
ST	50	4.00
ST	50	1.50
ST	50	2.50
ST	50	7.00
ST	50	4.00
ST	50	4.00
ST	50	2.00
ST	50	3.00
ST	50	1.50
ST	50	1.50
ST	50	1.50
ST	50	2.00
ST	50	6.00
ST	50	4.00
ST	50	2.00
ST	50	2.00
ST	50	2.00
ST	50	2.00
ST	50	2.00
ST	50	2.00
ST	50	2.00
ST	50	3.00
ST	50	8.00
ST	50	1.00
ST	50	3.00
ST	50	2.00
ST	50	2.00
ST	50	2.00
ST	50	2.00
ST	50	2.00
ST	50	2.00
ST	50	2.00
ST	50	2.50

4382

Emp 4:
Emp 5:
Emp 6:

	Project #	*WT*	*MT*	*Hours*
	FZZZZZ	ST	50	2.00
	FZZZZZ	ST	50	2.00
	FZZZZZ	ST	50	2.00
	FZZZZZ	ST	50	0.50
	FZZZZZ	ST	50	2.50
	FZZZZZ	ST	50	1.00
	FZZZZZ	ST	50	2.00
	FZZZZZ	ST	50	2.00
	FZZZZZ	ST	50	2.00
	FZZZZZ	ST	50	7.00
	FZZZZZ	ST	50	6.00
	FZZZZZ	ST	50	1.00
	FZZZZZ	ST	50	2.00
	FZZZZZ	ST	50	6.00
	FZZZZZ	ST	50	4.00
	Total: HR001322			231.75
	FZZZZZ	ST	50	2.00
	FZZZZZ	ST	50	1.00
	FZZZZZ	ST	50	1.00
	FZZZZZ	ST	50	1.00
	FZZZZZ	ST	50	1.50
	Total: HR001323			6.50
	Employee: NICOLE ISHIDA			696.00

Total	12	96	192	0	0	20	0	0	0	0	10	90	95	10	0	0	10	0	0	30	25	0	438	45	22	60	60	5	300	84	99	79

2005 Lab TCS.xls
REVISEL /18/2004

Dimension tab card								Rates tab card	Units tab card												
Line Item	RA	Act	Loc	Ind	Proj	EE	Labor Class	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
HEIRS, Pension, OPEB	PFB	779	MAU	BE	NPFZZZZZ	150	TCS	TCS	7	7	7	7	7	7	7	7	7	7	7	7	84
HEIRS Admin	PFB	779	PEC	BE	NPFZZZZZ	150	TCS	TCS	1	1	2	1	1	2	1	1	2	1	1	2	16
HEIRS, Pension, OPEB	PFB	779	PHE	NE	NPFZZZZZ	150	TCS	TCS	28	29	28	29	68	19	24	15	28	49	38	29	384
Other Ee Benefits	PFB	780	HEI	BE	NPFZZZZZ	150	TCS	TCS	2	3	2	3	2	3	2	3	2	3	2	3	30
Other Ee Benefits	PFB	780	HEL	BE	NPFZZZZZ	150	TCS	TCS	2	3	2	3	2	3	2	3	2	3	2	3	30
Other Ee Benefits	PFB	780	MAU	BE	NPFZZZZZ	150	TCS	TCS	2	3	2	3	2	3	2	3	2	3	2	3	30
Other Ee Benefits	PFB	780	PEC	BE	NPFZZZZZ	150	TCS	TCS	2	3	2	3	2	3	2	3	2	3	2	3	30
Other Ee Benefits	PFB	780	PHE	NE	NPFZZZZZ	150	TCS	TCS	1	1	1	1	1	1	1	1	1	1	1	1	12
IAM	PFB	780	PHE	NE	NPFZZZZZ	150	TCS	TCS	8	8	9	8	8	9	8	8	9	8	8	9	100
PDS Prep/Mtg	PFB	785	PHE	NE	NPFZZZZZ	150	TCS	TCS													0
Attend Training	PFB	789	PHE	NE	NPFZZZZZ	150	TCS	TCS	40												40
Attend Safety Training	PFB	797	PHE	NE	NPFZZZZZ	150	TCS	TCS						1							1
								TCS	2												2
Conduct Training	PFB	788	PHE	NE	P0000128	150	TCS	TCS							24	24					48
Total NonProj/Pgm Demand									206	212	202	168	215	225	164	220	191	191	207	209	2,448
Total Supply									168	160	184	168	176	176	168	184	176	168	176	176	2,080
Holidays - 2/21, 3/25, 5/30, 6/10, 7/4, 8/19, 9/5, 10/10, 11/11, 11/24, 12/23 (1/2), 12/26, 12/30 (1/2)									0	8	8	0	8	8	8	8	8	8	16	16	96
Available hours per employee									168	160	184	168	176	176	168	184	176	168	176	176	2080
Demand minus Supply									38	52	18	18	39	49	16	36	15	23	31	33	368

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NOTE: Total NonProject Demand hours may *NOT* equal Total Supply hours due to Project Demand hours (which are budgeted in the Project file)

Ho, Karen

From: Imai, Kevin
Sent: Tuesday, February 10, 2004 3:27 PM
To: Ho, Karen
Subject: Training Labor Update

Hi Karen, as we discussed, here are the labor hours we booked for Myra. This doesn't mean she has to do it. In deciding who we would be asking, Myra rose to the top of the list. I will be contacting her shortly.

Myra = 24hrs in July (The Service Difference), 24hrs in August (Working)

Thanks... kev

Kevin Imai
Hawaiian Electric Company, Inc.
(808-543-4644)

2003 Actuals Hours - MOBrien

Sum of NO_OF_HO desc																						
process_date	ASB - EE BEN PLANS, POL, PROC	ASB - HEIRS ADMINISTRATION	Assist w/ Internal Audits	Assist with External Audits	Attend Safety Training	Attend Training	Develop & Administer Business Plans	Maint Rel w/ Leg & Govt Agencies	Ee Trng & Dev Needs; PDS PrepMtg	Empl Benefits Admin & General Exp	H18909 001 FLEX ADMINISTRATION	H18910 001 - HEL EE BEN PLANS, POL., PRO	H18926 001 HEL - ADMINISTRATION (other)	H18927 001 HEIRS ADMINISTRATION	H18927 001 HEL - OPEB ADMINISTRATION	HEI - ADMINISTRATION (other)	HEI - FLEX ADMINISTRATION	HEI - HEIRS ADMINISTRATION	HEI - OPEB ADMINISTRATION	HEI Charitable Foundation-CRAG	HEI PRE-RETIREMENT WORKSHOP	HEI Assist with external audits
adjusted hrs	0	84	40	10	2	1	20	10	40	420	61	30	30	34	45	30	22	[illegible]	[illegible]	5	[illegible]	10
adjusted percentage of productive hrs		779	760	761	777	789	700	745	785	776	778	776	760	779	779	780	778	779	779		779	761
		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓

2003 Actuals Hours - MOBrien

Sum of NO_OF_HO	HEI-Incident Response Plan & Exercise	HELCO PRE-RETIREMENT WORKSHOP	HIPAA Task Force	HPC - ADMINISTRATION (other)	HPC - FLEX ADMINISTRATION	HPC - HEIRS ADMINISTRATION	INCIDENT RESPONSE PLAN AND EXERCISE	M15803 001 EE BENEFIT PLANS,POL.,PROC.	M15806 001 FLEX ADMINISTRATION	M15811 001 HEIRS ADMINISTRATION	M15811 001 MAU PRE-RETIREMENT WORKSHOP	M15811 001 OPEB ADMINISTRATION	M15811 001 PENSION ADMINISTRATION	M15812 001 ADMINISTRATION (other)	Maint Rel w/ Industry, Prof Assoc	Maintain Rel w/ Legislature & Gov't	Negotiations 2003	PEC - ADMINISTRATION (other)	PEC - FLEX ADMINISTRATION	PEC - HEIRS ADMINISTRATION	PHE - ADMINISTRATION (other)
process_date adjusted hrs	1	8	3	0	0	0	26	25	59	26	46	46	46	30	80	0	0	13	6	17	100
adjusted percentage of productive hrs	779 ✓						776 ✓	776 ✓	778 ✓	779 ✓	779 ✓	779 ✓	779 ✓	780 ✓	749 ✓			780 ✓	778 ✓	779 ✓	780 ✓

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2003 Actuals Hours - MOBrien

Sum of NO_OF_HO											
process_date	PHE - FLEX ADMINISTRATION	PHE - HEIRS ADMINISTRATION	PHE - OPEB ADMINISTRATION	PHE - PENSION ADMINISTRATION	Prepare time sheet/Time entry process	PRE-RETIREMENT WORKSHOP	PVT - ADMINISTRATION (other)	PVT - Flex Administration	PVT - HEIRS ADMINISTRATION	Strike Observers	Grand Total
adjusted hrs	300	[illegible]	[illegible]	[illegible]	45	60	0	0	0	0	2177
adjusted percentage of productive hrs	776	779	779	779	777	779					

✓ ✓ ✓ ✓ ✓ ✓

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Ho, Karen

From: Ho, Karen
Sent: Saturday, February 07, 2004 3:04 PM
To: zz$HR-FB; zz$HR-FC
Subject: RE: Labor Forecast for 2005

Keep in mind that this is just a forecast so all I need is your best estimate. Thanks!

-----Original Message-----
From: Ho, Karen
Sent: Saturday, February 07, 2004 2:59 PM
To: zz$HR-FB; zz$HR-FC
Subject: Labor Forecast for 2005
Importance: High

Hi-

I am preparing our department's labor forecast for 2005 and desperately need your help. In your in-box is a spreadsheet of your 2003 actual hours charged to the different activities. The column headings are the various activities that you have performed. At the bottom of the spreadsheet is the percentage of productive hours (the total hours charged to that activity divided by the grand total of the last column). Please review the report and various activities that you have charged your time to. There maybe some activities that you performed in 2003 that doesn't necessarily apply to 2005. Therefore, please make the following adjustments:

- cross out the activities that does not apply to 2005 ✓
- add activities that you will be doing in 2005 that do not appear on the report and include the % of productive time Not sure - increased Internal audit hours
- * adjust the percentage of productive hours (i.e., if you are not performing a particular activity in 2005, that time is spent doing something else; therefore, you would need to add that time to another activity) ✓

** Also, please let me know when you plan to take vacation in 2005. I need the hours by month. This will ✓ help me determine the total productive hours (total available hours per month minus vacation/holidays).

For your information, labor hours are entered into the Pillar budgeting system by hours per month. I need to enter vacation by hours per month and labor by activity by hours per month. Yes, a very tedious process!

DEADLINE: Return the spreadsheet with your changes to me ASAP or by end of the day on Monday, February 9. I need time to enter all this on Pillar and my deadline is Noon on February 11.

CONFUSING?...QUESTIONS?...Please see me if you have any questions.

Thank you! vacation
Karen

** april 16
June 80
August 40
September 16
November 16
December 24

* - Any differences, add/subtract from PHE Administration (other)

Night
TRAINING 24
July 24
Aug

8-TC.xls
/17/2004

KHO
02/17/2004

ov	Dec	Total	
3	3	36	
L48	48	288	
	120	320	
		0	
		0	
		188	a
		12	
		11	
83	36	662	b
5	5	65	c
	2	6	e
		2	
		2	
		2	
		2	g
	1	8	
		2	
2	2	15	
2	2	15	
2		9	
91	9	999	h
3	2	35	i
4	3	45	
3	2	35	
3	3	37	
	2	9	
9	6	87	f
1	3	31	
8	9	96	
2	13	154	
1	16	150	
	1	5	

2005 L[illegible]B-TC.xls
Revise[illegible] /17/2004

b card	Units tab card													
nk To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
	47	48	47	41	55	53	46	50	47	49	46	49	576	I
	1	3	1	2	1	2	1	1	1	1	1	3	18	
	1	1	1	1	1	9	1	1	1	1	1	3	22	
		1				1						2	4	
	6	8	5	7	5	7	5	7	5	7	5	8	75	K
	2	2	2	3	2	2	2	2	3	2	2	2	26	K
	6												6	I
		2		3	1			2	3				11	M
	2												2	N
	7	7	7	7	7	8	7	7	7	7	7	8	86	P
	147	147	147	147	147	147	147	147	147	147	147	147	1,764	K
			1	5		2		5	1			1	15	
	5	5	5	5	5	5	5	5	5	5	5	5	60	
			1			1			1			1	4	
				1				1				1	3	
													0	
	25	25	25	25	25	25	25	25	25	25	25	25	300	
	25	25	25	25	25	25	25	25	25	25	25	25	300	
	8	0	0	4	6	8	8	8	4	4	0	0	50	
	523	525	585	511	546	555	612	575	542	527	541	565	6,607	
	504	480	552	504	528	528	504	552	528	504	528	528	6,240	
	0	8	8	0	8	8	8	8	8	8	16	16	96	
	168	160	184	168	176	176	168	184	176	168	176	176	2080	
	19	45	33	7	18	27	108	23	14	23	13	37	367	

o Project Demand hours (which are budgeted in the Project file)

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Ho, Karen

From: Ho, Karen
Sent: Saturday, February 07, 2004 3:04 PM
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Also, please let me know when you plan to take vacation in 2005. I need the hours by month. This will help me determine the total productive hours (total available hours per month minus vacation/holidays).

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CONFUSING?...QUESTIONS?...Please see me if you have any questions.

Thank you!
Karen

Vacation time 2005 – 7/05 2 weeks

Negotiations 2003

1.50 7.00 8.50 0.44% 0

1.00 8.50 1.00 1.50 2.00 2.00 5.00 5.50 5.00 3.00 3.00 2.00 1.50 1.00 1.00 .00 .00 %

Actual Hours - JMarler

2003 Actual Hours - IOHo

Sum of NO_OF_H date

process_date	ABM Administration	APPRISE Mgrs Grp Mtg (MGM)	ASB - HEIRS ADMINISTRATION	ASB - PENSION ADMINISTRATION	Attend Safety Training	Attend Training	AUW 2004 - Administration	CP Strike training	Develop & Administer Business Plans	Develop & Manage Forecast	Ee Trng & Dev Needs; POS Prep/Mtg	Ellipse Team costs	Empl Benefits Admin & General Exp	H01087 001 - Develop & Manage Forecast	H18909 001 FLEX ADMINISTRATION	H18926 001 HEL - ADMINISTRATION (other)	H18927 001 HEIRS ADMINISTRATION	H18927 001 HEL - OPEB ADMINISTRATION	H18927 001 HEL - PENSION ADMINISTRATION	HEI - ADMINISTRATION (other)	HEI - FLEX ADMINISTRATION	HEI - HEIRS ADMINISTRATION
adjusted productive hrs %	3.5%	0.0%	0.4%	1.1%	0.1%	0.3%	0.0%	0.0%	9.9%	37.8%	0.0%	0.0%	8.4%	0.6%	0.0%	0.1%	0.1%	0.8%	2.5%	0.1%	0.0%	0.0%
productive hrs	65	0	7	20	1	6	0	0	184	705	1	0	157	12	0	1	2	15	47	2	1	0

2003 Actual Hours - IOHo

Sum of NO_OF_H

process_date	HEI - OPEB ADMINISTRATION	HEI - PENSION ADMINISTRATION	HEI SAL ADMIN	HPC - HEIRS ADMINISTRATION	M15782 001 Develop & Manage Forecast	M15806 001 FLEX ADMINISTRATION	M15811 001 HEIRS ADMINISTRATION	M15811 001 OPEB ADMINISTRATION	M15811 001 PENSION ADMINISTRATION	M15812 001 ADMINISTRATION (other)	NEGOTIATION 6 - 2003	Negotiations 2003	PHE - ADMINISTRATION (other)	PHE - FLEX ADMINISTRATION	PHE - HEIRS ADMINISTRATION	PHE - OPEB ADMINISTRATION	PHE - PENSION ADMINISTRATION	Prepare time sheet/Time entry process	Process Invoices, ProCard reporting	Grand Total	
adjusted productive hrs %	0.1%	0.5%	0.0%	0.0%	0.6%	0.0%	0.1%	0.6%	2.5%	0.1%	0.0%	0.0%	0.5%	1.1%	0.5%	4.0%	18.2%	0.7%	4.4%	100.0%	1864
productive hrs	3	10	0	0	11	0	2	15	47	1	0	0	9	20	10	75	339	12	83	1864	

2003 Actual Hours - KHo

Sum of NO_OF_H dec

process_date	A.Bal Administration	APPRISE Mgrs Grp Mtg (MGM)	ASB - HEIRS ADMINISTRATION	ASB - PENSION ADMINISTRATION	Attend Safety Training	Attend Training	AUW 2004 - Administration	CP Strike Training	Develop & Administer Business Plans	Develop & Manage Forecast	Ee Trng & Dev Needs; PDS Prep/Mtg	Ellipse Team costs	Empl Benefits Admin & General Exp	H01067 001 - Develop & Manage Forecast	H18909 001 FLEX ADMINISTRATION	H18926 001 HEI - ADMINISTRATION (other)	H18927 001 HEIRS ADMINISTRATION	H18927 001 HEI - OPEB ADMINISTRATION	H18927 001 HEI - PENSION ADMINISTRATION	HEI - ADMINISTRATION (other)	HEI - FLEX ADMINISTRATION	HEI - HEIRS ADMINISTRATION
1/13/2003				0.50						31.00			3.00					0.50	0.83			
1/20/2003				0.50						12.75	0.75		0.05						3.38			
1/27/2003				0.50	7.00					13.00			3.00					0.17	0.18			
2/3/2003	1.50		1.16			1.00				21.00			1.00				0.27					0.00
2/10/2003	1.00			0.67						12.50			3.50					0.17	1.87			
2/18/2003			0.90	0.50						7.00			5.25			0.30	0.10	0.17	1.80	1.55		
2/24/2003	4.75			0.20						14.50			1.00						0.05			
2/28/2003	19.25	2.00								3.00			1.50					0.83	0.38			
3/10/2003	12.75			0.75						6.50			3.00					0.30	1.30			
3/17/2003	8.00			0.50						22.75			3.00						0.18			
3/24/2003									0.25	15.50			4.00						0.17			
3/31/2003										2.00			2.00									
4/7/2003										28.00			2.00									
4/11/2003									21.80				1.50	7.58								
4/21/2003									7.75	1.00			1.50	3.00								
4/28/2003				0.75					2.75	1.00			3.50					0.17	2.40			
4/30/2003	2.00		0.40						6.50	7.00							0.10		0.45			
5/5/2003									14.00				1.00								0.25	
5/12/2003			0.50						14.75	2.00					0.30		0.17	1.25			0.05	
5/19/2003									30.00	13.00			4.00					0.47	0.80		0.50	
5/23/2003				0.00					13.25				9.25	1.00				0.17	2.40			
6/2/2003	2.00			1.00					5.00	1.50			3.00					0.23	2.07			
6/9/2003	1.00									7.75			1.50					0.62	1.73			
6/16/2003									14.00	7.00			1.00									
6/23/2003									23.50	2.00			9.75									
6/30/2003	1.00								3.00	28.75			6.00									
7/3/2003				0.50									1.50					0.17	0.88			
7/7/2003				1.10					3.00				1.00					0.45	1.08			
7/14/2003				0.50					17.00				3.00						1.92			
7/21/2003			0.90	0.70					9.00	7.25			2.50				0.10	0.50	1.05			0.00
7/28/2003	2.00			1.70						4.50			2.00					0.75	2.20			
8/1/2003				0.50						17.00			1.00					0.47	1.30			
8/4/2003										6.50			1.25									
8/11/2003						0.75				43.50			1.50									
8/18/2003							2.00			30.50			1.50									
8/25/2003							0.50			28.75			1.60									
8/27/2003	2.00									22.00			1.00						0.88			
9/8/2003				1.00						4.50			2.00					0.33	3.10			
9/15/2003							3.00			10.75		0.50	1.00					0.80	0.80			
9/22/2003	1.00			0.50						11.25			3.00					1.30	1.47			
9/29/2003	2.00					1.00				14.00			2.00									
10/3/2003										1.00			4.00						2.00			
10/6/2003				1.10						5.25			3.00					1.20	0.93			
10/10/2003				0.75			3.00			8.75			0.60				0.05	0.45	1.57			
10/20/2003	1.00			0.10			1.50			12.25			4.00					0.17	1.00			
10/27/2003	3.00			0.50				1.75	6.00	9.25			1.50					1.35	0.98			
10/31/2003				0.10						18.50			4.50					0.75	0.10			
11/3/2003			0.17	0.70						8.00			1.00				0.75	0.17	3.78			0.18
11/7/2003							4.00			9.25			4.50						0.58			
11/24/2003			0.90	0.50			9.00			13.00			4.25				0.25	0.17	1.07			
12/1/2003							11.00			9.50			1.50									
12/8/2003				0.20						13.50			6.00			0.67		0.30	1.55	0.50		
12/14/2003				0.10			3.00			13.25			7.00			0.17			1.30			
12/22/2003	0.50			0.40			0.50			8.50			5.00			0.17			0.20			
12/29/2003	2.00			0.50			0.50			7.00			5.00					0.17	0.45			
12/31/2003				0.90						3.00			4.50					0.30	1.07			
Grand Total	64.75	2.00	7.15	19.62	1.00	6.75	39.00	1.75	163.55	639.50	0.75	8.50	155.75	11.58	0.30	1.30	1.79	15.15	46.32	2.05	0.80	0.18
Percentage of productive hrs	3.5%	0.1%	0.4%	1.1%	0.1%	0.3%	2.1%	0.1%	9.9%	34.5%	0.0%	0.4%	8.4%	0.6%	0.0%	0.1%	0.1%	0.8%	2.5%	0.1%	0.0%	0.0%

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HEIRS ISTRAT	PHE - OPEB ADMINISTRATION	PHE - PENSION ADMINISTRATION	Prepare time sheet/Time entry process	Process invoices: ProCard reporting	Grand Total
	3.66	7.07			40.00
		16.37		3.50	40.00
	4.67	9.38		1.00	46.50
1.23		1.00	0.25	4.75	40.00
	0.67	14.80	0.25	2.75	40.50
0.40	2.67	8.08	0.25	4.50	40.00
		1.70	0.25		23.50
	0.67	3.68	0.25	1.00	40.00
	4.35	9.78	0.25		40.00
		0.10	0.25		40.00
		2.17	0.25	1.50	24.00
				1.00	8.00
				1.00	32.00
			0.25	2.75	42.00
			0.25	1.50	37.00
	0.67	19.80	0.25	1.00	40.00
0.40		2.00		0.50	24.50
			0.25		15.50
0.62	5.35		0.25	1.00	23.00
	2.00	3.67	0.25	3.00	37.50
	0.67	12.75		1.00	42.00
	1.00	12.25	0.25		32.00
	2.75	15.70	0.25		34.00
				2.00	24.00
			0.25	1.00	36.00
			0.25	1.00	40.00
	0.67	3.43			8.00
	2.00	4.95	0.25	1.75	38.50
		7.02		0.50	32.00
0.60	2.00	9.75	0.25	2.50	38.00
	3.37	11.23	0.25	2.50	38.00
	2.00	6.68		1.00	32.00
			0.25		8.00
			0.25		46.00
					34.00
			0.25		41.00
		4.00		0.50	42.00
	2.35	10.38	0.25	1.00	32.50
	2.00	3.18	0.25		41.00
	5.35	6.50	0.25	4.00	40.00
					41.00
		8.07		1.50	16.50
	5.37	3.78	0.25	0.50	24.00
0.20	2.00	14.47	0.25	1.50	37.00
	0.67	4.13	0.25	1.50	28.00
	7.02	5.37	0.25	1.00	42.25
	5.35	3.10			40.00
0.25	0.67	10.25		3.50	40.00
		3.02	0.25	2.00	24.00
3.00	0.15	4.00	0.25	2.00	42.00
				2.00	24.00
	1.33	7.48	3.25	2.00	40.00
		8.47	0.25	4.00	40.00
		1.20		7.00	24.50
	0.67	3.02		4.00	24.00
	1.33	4.23	0.50	2.00	20.00
9.83	74.80	281.90	12.25	82.50	1854.75
5%	4.0%	15.2%	0.7%	4.4%	100.0%

2003 Actuals Hours - POkada

01087 001 - evelop & lanage orecast	H18903 001 FLEX ADMINISTRATION	H18910 001 - HEI, Dev Ee Ben Plan, Pol, proc	H18926 001 HEI - ADMINISTRATION (other)	H18927 001 HEIRS ADMINISTRATION	H18927 001 HEI - OPEB ADMINISTRATION	H18927 001 HEI - PENSION ADMINISTRATION	HEI - ADMINISTRATION (other)	HEI - Develop & Manage Forecast	HEI - DISCRIMINATION TEST	HEI - FLEX ADMINISTRATION	HEI - HEIRS ADMINISTRATION
1	35	13	13	10	33	46	16	1	7	44	9
0.0%	1.6%	0.6%	0.6%	0.5%	1.5%	2.1%	0.7%	0.0%	0.1%	2.0%	0.3%

2003 Actuals Hours - POkada

5803 001 ICRIMINATI TEST	M15803 001 EE BENEFIT PLANS,POL,P ROC.	M15806 001 FLEX ADMINISTRATION	M15811 001 HEIRS ADMINISTRATION	M15811 001 OPEB ADMINISTRATION	M15811 001 PENSION ADMINISTRATION	M15812 001 ADMINISTRATION (other)	Negotiations 2003	PEC - Dev Ee Ben Plans, Pol Proc	PEC - DISCRIMINATION TEST	PEC - FLEX ADMINISTRATION	PEC - HEIRS ADMINISTRATION
2	13	37	8	31	52	3	0	8	1	9	2
0.1%	0.6%	1.7%	0.3%	1.4%	2.3%	0.1%	0.0%	0.4%	0.1%	0.4%	0.1%

2003 Actuals Hours - POkada

Grand Total	
2214	2214
100.0%	

Ho, Karen

From: Ho, Karen
Sent: Saturday, February 07, 2004 3:04 PM
To: zz$HR-FB; zz$HR-FC
Subject: RE: Labor Forecast for 2005

Keep in mind that this is just a forecast so all I need is your best estimate. Thanks!

-----Original Message-----
From: Ho, Karen
Sent: Saturday, February 07, 2004 2:59 PM
To: zz$HR-FB; zz$HR-FC
Subject: Labor Forecast for 2005
Importance: High

Hi-

I am preparing our department's labor forecast for 2005 and desperately need your help. In your in-box is a spreadsheet of your 2003 actual hours charged to the different activities. The column headings are the various activities that you have performed. At the bottom of the spreadsheet is the percentage of

HEI - HEIRS ADMINISTRATION	0.25	0.25	0.42	0.25	0.25	0.25	0.50	0.17	0.25	0.25	0.25	0.25	0.25	0.75	0.50	0.17	0.33	0.25 0.50	0.75	8.83	0.3%

PEC - FLEX ADMINISTRATION	PEC - HEIRS ADMINISTRATION
0.33	
	0.25
0.75	
0.25	0.25
0.75	0.17
-0.50	
-0.25	-0.25
-0.25	
0.25	
0.25	
1.00	
	0.25
0.25	
(0.50)	
1.00	
2.00	
	0.75
0.33	1.92
0.4%	0.1%

EIRS STRAT	PHE - OPEB ADMINISTRATION	PHE - PENSION ADMINISTRATION	Prepare time sheet/Time entry process	PVT DISCRIMINATION TEST	PVT Flex Administration	PVT HEIRS ADMINISTRATION	Grand Total
0.25		1.50					27.00
0.25	0.25	1.75	0.50		0.33		42.50
0.17	1.25	0.25					37.00
							90.00
0.25	1.00	1.50				0.25	17.50
0.25	0.75	1.25	1.00				44.00
0.25	0.25	0.75		0.75	0.25	0.25	44.00
0.50	0.50	1.00		0.25			40.50
0.17	0.50	0.25		0.25	0.75	0.17	36.50
0.75	0.25	0.75		0.50	0.50		46.00
0.25	0.25	0.75			0.25	0.25	43.50
0.25	0.50	0.50			0.25		43.00
	0.25	1.50			0.25		9.00
		0.75			0.25		34.00
	0.50	0.50			1.00		34.50
		1.50					25.50
0.25		0.75				0.25	33.00
							26.50
		0.75					37.00
0.25		1.25					33.50
		2.50					45.50
0.75		0.25					46.00
0.50		0.50					36.50
0.17		14.50					34.00
	0.25	5.00					40.00
	0.25	24.00					55.00
3.33	1.00	2.25					45.50
	1.00		0.50				8.50
		0.00					37.50
		4.25	0.50				33.00
	1.00	1.00	0.50				43.50
	0.50	1.00					43.50
							46.00
	0.50	0.75	0.50				34.00
0.50	0.50	1.00					35.00
	1.00	0.50	0.50				34.00
	1.00	1.25					47.00
	1.75	0.50					41.00
	0.50	0.00	0.00				35.00
		0.25	0.50				40.00
0.25	0.75	1.25					38.00
0.50	0.00	0.50					37.00
	0.50	0.50	0.50				26.00
	0.25	3.00					26.00
	1.25	1.25	0.50				44.50
							5.50
	4.00	0.25	0.50				35.00
	4.00	0.50	0.50				46.00
	0.75	0.75	0.50				43.00
	2.00	0.75	0.50				41.50
	0.25	0.25	0.50				34.00
	0.50	1.00	0.50				51.00
							18.00
	1.75	0.25	0.50				40.00
.75	0.25		0.50				45.50
	0.25	0.25					22.00
.33	37.50	91.75	10.00	1.33	3.83	1.17	1998.50
%	1.9%	4.6%	0.5%	0.1%	0.2%	0.1%	100.0%

_RA	_Lbr...	_Act	_Loc	_Ind	_Proj	_EE	Line Item	FY05	Jan 05	Feb 05	Mar 05	Apr 05	May 05	Jun 05	Jul 05	Aug 05	Sep 05	Oct 05	Nov 05	Dec 05
PFB		098	PHE	ND	NPFZZZZZ	107	Admin Asst - Holidays	-96	0	-8	-8	0	-8	-8	-8	-8	-8	-8	-16	-16
PFB		098	PHE	ND	NPFZZZZZ	107	Admin Asst - Vacation	-40	0	0	0	-20	0	0	0	0	0	-20	0	0
PFB		098	PHE	ND	NPFZZZZZ	107	Admin Asst - Holidays Update 09.2003	0	0	0	0	0	0	0	0	0	0	0	0	0
PFB		700	PHE	NE	NPFZZZZZ	150	HECO LABOR	0	0	0	0	0	0	0	0	0	0	0	0	0
PFB		723	HEL	BE	NPFZZZZZ	150	HNP NHNZZZZZ LABOR	-6	0	0	0	0	0	0	0	0	-6	0	0	0
PFB		723	MAU	BE	NPFZZZZZ	150	MSP NMSZZZZZ LABOR	-2	0	0	0	0	0	0	0	0	-2	0	0	0
PFB		723	PHE	NE	NPFZZZZZ	150	HECO LABOR	-13	0	0	0	0	0	0	0	0	-13	0	0	0
PFB		749	PHE	NE	NPFZZZZZ	150	HECO LABOR	0	0	0	0	0	0	0	0	0	0	0	0	0
PFB		760	PHE	NE	NPFZZZZZ	150	HECO LABOR 760	-5	0	-2	-3	0	0	0	0	0	0	0	0	0
PFB		765	PHE	NE	NPFZZZZZ	150	HECO LABOR 765 - EOL	-16	0	0	-2	-3	-7	-2	-2	0	0	0	0	0
PFB		775	HEI	BE	NPFZZZZZ	150	HEI LABOR	-6	0	-1	0	-1	0	-1	0	-1	0	-1	0	-1
PFB		775	HEL	BE	NPFZZZZZ	150	HNP NHNZZZZZ LABOR	-8	0	0	0	-2	0	-2	0	0	0	-2	0	-2
PFB		775	MAU	BE	NPFZZZZZ	150	MSP NMSZZZZZ LABOR	-8	0	0	0	-2	0	-2	0	0	0	-2	0	-2
PFB		775	PHE	NE	NPFZZZZZ	150	HECO LABOR	-604	-52	-52	-52	-52	-52	-52	-52	-52	-42	-42	-52	-52
PFB		775	PHE	NE	NPFZZZZZ	150	HECO LABOR - Update 09.2003	0	0	0	0	0	0	0	0	0	0	0	0	0
PFB		776	PHE	NE	NPFZZZZZ	150	HECO LABOR 776	-66	-4	-4	-5	-4	-5	-11	-9	-4	-6	-4	-4	-6
PFB		776	PHE	NE	NPFZZZZZ	150	HECO LABOR	-189	-16	-15	-16	-11	-18	-11	-26	-15	-15	-23	-10	-13
PFB		776	PHE	NE	NPFZZZZZ	150	HECO LABOR - Update 09.2003	0	0	0	0	0	0	0	0	0	0	0	0	0
PFB		777	PHE	NE	NPFZZZZZ	150	HECO LABOR 777	-134	-12	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-12
PFB		778	HEI	BE	NPFZZZZZ	150	HEI LABOR 778	-32	-2	-2	-2	-3	-2	-3	-4	-3	-3	-4	-2	-2
PFB		778	HEL	BE	NPFZZZZZ	150	HNP NHNZZZZZ LABOR 778	-15	0	0	-2	0	0	-3	-1	-2	-4	-1	0	-2
PFB		778	HPC	BE	NPFZZZZZ	150	HPC LABOR 778	-10	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
PFB		778	MAU	BE	NPFZZZZZ	150	MSP NMSZZZZZ LABOR 778	-8	0	0	-2	0	0	-2	0	0	-2	0	0	-2
PFB		778	PEC	BE	NPFZZZZZ	150	PECS LABOR 778	-12	0	-1	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1
PFB		778	PHE	ND	P0001010	150	Benefits Coordinator	-500	-42	-42	-42	-42	-42	-42	-42	-42	-41	-41	-41	-41
PFB		778	PHE	NE	NPFZZZZZ	150	HECO LABOR 778	-1,438	-127	-112	-131	-128	-95	-128	-106	-139	-128	-114	-133	-97
PFB		778	PHE	NE	P0001010	150	Benefits Coordinator	-500	-42	-42	-42	-42	-42	-42	-42	-42	-41	-41	-41	-41
PFB		778	PVT	BE	NPFZZZZZ	150	PVT LABOR	0	0	0	0	0	0	0	0	0	0	0	0	0
PFB		779	ASB	BE	NPFZZZZZ	150	ASB LABOR 779	-56	-4	-4	-4	-7	-4	-4	-4	-7	-4	-4	-4	-6
PFB		779	HEI	BE	NPFZZZZZ	150	HEI LABOR 779	-97	-8	-8	-8	-8	-7	-10	-7	-8	-8	-8	-7	-10
PFB		779	HEL	BE	NPFZZZZZ	150	HNP NHNZZZZZ LABOR 779	-171	-14	-13	-14	-15	-13	-15	-15	-13	-14	-15	-13	-17
PFB		779	HPC	BE	NPFZZZZZ	150	HPC LABOR 779	-4	0	0	-1	0	0	-1	0	0	-1	0	0	-1
PFB		779	MAU	BE	NPFZZZZZ	150	MSP NMSZZZZZ LABOR 779	-142	-11	-11	-11	-13	-11	-12	-12	-12	-13	-11	-11	-14
PFB		779	PEC	BE	NPFZZZZZ	150	PECS LABOR 779	-4	0	0	-1	0	0	-1	0	0	-1	0	0	-1
PFB		779	PHE	NE	NPFZZZZZ	150	HECO LABOR 779	-2,228	-200	-180	-218	-203	-144	-197	-183	-171	-201	-190	-199	-140
PFB		779	PVT	BE	NPFZZZZZ	150	PVT LABOR	0	0	0	0	0	0	0	0	0	0	0	0	0
PFB		780	HEI	BE	NPFZZZZZ	150	HEI LABOR 780	-2	0	0	0	0	0	-1	0	0	0	0	0	-1
PFB		780	HEL	BE	NPFZZZZZ	150	HNP NHNZZZZZ LABOR 780	-11	0	-1	0	-2	0	-2	0	-2	0	-2	0	-2
PFB		780	MAU	BE	NPFZZZZZ	150	MSP NMSZZZZZ LABOR 780	-7	0	0	0	-2	0	0	-3	0	0	-2	0	0
PFB		780	PHE	NE	NPFZZZZZ	150	HECO LABOR 780	-116	-9	-9	-9	-10	-9	-9	-10	-9	-14	-10	-9	-9
PFB		780	PHE	NE	NPFZZZZZ	150	HECO LABOR	-1,108	-100	-84	-108	-80	-98	-100	-82	-108	-90	-70	-98	-90
PFB		780	PHE	NE	NPFZZZZZ	150	HECO LABOR - Update 09.2003	0	0	0	0	0	0	0	0	0	0	0	0	0
PFB		780	PHE	NE	NPFZZZZZ	150	HECO LABOR 780 - IAM	-505	-45	-43	-43	-51	-35	-45	-43	-45	-47	-44	-43	-21

2005 FB-I.xls
Revis. 17/2004

Prepared by KHO
Date REVISED: 02/17/2004

card							
	Aug	Sep	Oct	Nov	Dec	Total	
in "Units tab card")							
3	3	3	3	3	3	36	
nits tab card")							
4	24	24	24	48	48	288	
4	56		16		92	340	
						0	
						0	
						5	f
1	4	6	4	4	6	66	h
	11	11	11	11	12	134	i
	3	3	4	2	2	32	
	2	4	1		2	15	
	1	1	1	1		10	
		2			2	8	
	1	1	1	1	1	12	
	~~139~~	~~128~~	~~114~~	~~133~~	~~97~~	~~[illegible]~~	g
	7	4	4	4	6	56	
	8	8	8	7	10	97	
	13	14	15	13	17	171	
		1			1	4	
	12	13	11	11	14	142	
		1			1	4	
	171	201	190	199	140	2,228	j
					1	2	
	2		2		2	11	
			2			7	
	9	14	10	9	9	116	k
	45	47	44	43	21	505	k
					5	17	l
					1	5	m
						3	n
	2	3				10	o
						0	
						16	

Dimension tab card								Rates tab card	Units tab card												
Line Item	RA	Act	Loc	Ind	Proj	EE	Labor Class	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
HR Suite Project	PFB	778	PHE	NE	Benefits04	150															0
HR Suite Project	PFB	778	PHE	ND	Benefits04	150			21	21	21	21	21	21	21	21	21	21	21	19	250
									21	21	21	21	21	21	21	21	21	21	21	19	250
Total NonProj/Pgm Demand									504	480	552	504	528	528	504	552	528	504	528	528	6,240
Total Supply									504	480	552	504	528	528	504	552	528	504	528	528	6,240
Holidays - 2/21, 3/25, 5/30, 6/10, 7/4, 8/19, 9/5, 10/10, 11/11, 11/24, 12/23 (1/2), 12/26, 12/30 (1/2)									0	8	8	0	8	8	8	8	8	8	16	16	96
Available hours per employee									168	160	184	168	176	176	168	184	176	168	176	176	2080
Demand minus Supply									0	0	0	0	0	0	0	0	0	0	0	0	0

NOTE: Total NonProject Demand hours may *NOT* equal Total Supply hours due to Project Demand hours (which are budgeted in the Project file)

2003 Actuals Hours - TUyehara

Sum of NO_OF_HOU	desc																						
process_date	ASB - HEIRS ADMINISTRATION	Assist w/ Internal Audits	Attend Safety Training	Attend Training	AUW 2004 - Administration	Develop & Administer Business Plans	Ee Trng & Dev Needs, PDS Prep/Mtg	Ellipse Team costs	Empl Benefits Admin & General Exp	EOL	H18909 001 FLEX ADMINISTRATION	H18927 001 HEIRS ADMINISTRATION	HEI - FLEX ADMINISTRATION	HEI - HEIRS ADMINISTRATION	HPC - FLEX ADMINISTRATION	HPC - HEIRS ADMINISTRATION	Integrated Absence Mgmt / Case Mgmt	M15906 001 FLEX ADMINISTRATION	M15911 001 HEIRS ADMINISTRATION	PEC - FLEX ADMINISTRATION	PEC - HEIRS ADMINISTRATION	PHE - Other Ee Ben Admin	PHE - FLEX ADMINISTRATION
adjusted hours	0.00	0.00	1.00	4.00	0.00	0.00	4.00	2.50	39.50	17.25	7.92	0.00	5.17	0.00	0.33	0.00	557.74	0.42	0.00	0.83	0.00	5.00	1266.08
adjusted productive hours %	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.2%	0.1%	2.0%	0.9%	0.4%	0.0%	0.3%	0.0%	0.0%	0.0%	27.9%	0.0%	0.0%	0.0%	0.0%	0.2%	63.3%
	0	0	1	4	0	0	4	2	37	16	7	0	5	0	0	0	525	0	0	1	0	5	1192

Sum of NO_OF_HOU							
process_date	PHE - HEIRS ADMINISTRATION	Prepare time sheet/Time entry process	PVT - Flex Administration	PVT - HEIRS ADMINISTRATION	Staffing	Grand Total	
adjusted hours	0.00	89.25	0.00	0.00	0.00	2000.99	1884
adjusted productive hours %	0.0%	4.5%	0.0%	0.0%	0.0%	100.0%	
	0	84	0	0	0	1884	

2003 Actuals Hours - TUyehara

150111001 HEIRS ADMINISTRATION	PEC - FLEX ADMINISTRATION	PEC - HEIRS ADMINISTRATION	PHE - Other Ea Ben Admin	PHE - FLEX ADMINISTRATION
		0.08		11.00
0.08		0.17		28.25
0.25		0.25		29.50
0.25	0.75	0.25		27.50
	0.08	0.08		33.75
1.00		0.83		18.50
		1.00		23.00
1.00		0.08		27.00
0.50		0.25		29.50
				17.50
0.92		0.17		30.00
0.75		0.08		28.00
				6.00
0.25				30.00
0.25		0.25		26.00
				5.00
0.50		0.25		21.25
		0.25		20.00
0.25				22.50
		0.08		30.50
0.25				12.00
0.50				7.50
0.50		0.33		26.00
0.75		0.17		26.33
0.25		0.42		30.00
0.75				11.00
0.08		0.17		18.50
0.50				25.00
		0.08		22.00
0.75		0.17		11.50
				6.00
		0.50		14.50
0.67		0.17		22.75
		0.08		19.75
0.50				30.75
				11.50
				1.00
0.75				22.50
		0.08		11.50
0.50				9.50
0.33		0.42		19.75
				15.00
0.17		0.17		13.00
				20.00
				20.50
				4.00
				7.00
			5.00	12.50
				13.00
				21.50
				20.00
				9.00
				45.00
				30.00
				68.00
				45.00
				43.00
				30.50
				34.00
				17.00
				12.00
14.52	0.83	6.33	5.00	1266.08
0.7%	0.0%	0.3%	0.2%	63.3%

2003 Actuals Hours - TUyehara

Time Line Excess	PVT - Flex Administration	PVT - HEIRS ADMINISTRATION	Staffing	Grand Total
4.00		0.08		16.00
2.00		0.17		40.00
2.50	0.25	0.25		40.00
2.00	0.08	0.25		40.00
2.00		0.08		40.00
2.00		0.05		32.00
1.00		1.08		40.00
1.00				32.00
		0.25		36.00
1.00				11.50
1.50		0.17		40.00
		0.58		37.50
2.00				0.00
2.00				39.00
1.00		0.08		40.00
0.50				8.00
1.00		0.25		32.00
1.00		0.25		40.00
1.00				32.00
1.00		0.08		40.00
0.50				24.00
1.00				12.00
1.00				40.00
1.00				40.00
1.50				40.00
1.50				16.00
1.50				32.00
.75				32.00
.00				28.00
				32.00
				8.00
.50				24.00
.00				40.00
.50				40.00
.50			0.25	40.00
.00				32.00
.50				8.00
.50				40.00
.50				32.00
.50				24.00
.00				49.00
.00				39.50
.00				29.00
.00				40.00
.00				45.00
.00				17.50
.00				22.50
.00				37.00
.00				35.50
.00				45.00
.00				29.50
.00				9.00
.00				62.00
.00				56.00
.00				67.50
.00				49.50
.00				50.50
.00				56.00
.00				40.00
.00				20.00
				12.00
	0.33	3.63	0.25	2001.00
	0.0%	0.2%	0.0%	100.0%

vacation for 2005:
January: 8
March: 16
May: 16
August: 16
October: 16
December: 28

Total: 100 hours

Just guessing on this!

I hope I did this right!!!

Ho, Karen

From: Ho, Karen
Sent: Saturday, February 07, 2004 3:04 PM
To: zz$HR-FB; zz$HR-FC
Subject: RE: Labor Forecast for 2005

Keep in mind that this is just a forecast so all I need is your best estimate. Thanks!

-----Original Message-----
From: Ho, Karen
Sent: Saturday, February 07, 2004 2:59 PM
To: zz$HR-FB; zz$HR-FC
Subject: Labor Forecast for 2005
Importance: High

Hi-

I am preparing our department's labor forecast for 2005 and desperately need your help. In your in-box is a spreadsheet of your 2003 actual hours charged to the different activities. The column headings are the various activities that you have performed. At the bottom of the spreadsheet is the percentage of productive hours (the total hours charged to that activity divided by the grand total of the last column). Please review the report and various activities that you have charged [illegible]

2003 Actual Hours - LSunada

H18927 001 HEIRS ADMINISTRATION	H18927 001 HEI - OPEB ADMINISTRATION	HEI - Other Ee Ben Admin	HEI - FLEX ADMINISTRATION	HEI - HEIRS ADMINISTRATION	HEI - OPEB ADMINISTRATION	HEI SAL ADMIN	HPC - FLEX ADMINISTRATION	M15806 001 FLEX ADMINISTRATION	M15811 001 HEIRS ADMINISTRATION	M15811 001 OPEB ADMINISTRATION	Order mtls/supplies, create reqs & POs	PEC - FLEX ADMINISTRATION	People Plan	PHE - Other Ee Ben Admin
8.50	0.00	51.33	1.00	27.50	0.00	76.58	0.00	9.83	8.50	0.00	52.83	10.75	11.68	0.00	37.00
4%	0.0%	2.7%	0.1%	1.4%	0.0%	4.0%	0.0%	0.5%	0.4%	0.0%	2.7%	0.6%	0.6%	0.0%	1.9%
81	0	50	1	27	0	74	0	10	8	0	51	10	11	0	36

2003 Actual Hours - LSunada

Prepare Timesheet			
915.17	13	1928.17	1864
	0.7%	100.0%	
	13	1864	

CA-IR-1
DOCKET NO. 04-0113
HECO T-15
ATTACHMENT 3
PAGE 46 OF 52

2003 Actual Hours - LSunada

Timesheets Ref Approval

HEIRS STRAT.	PHE - OPEB ADMINISTRATION	PRE-RETIREMENT WORKSHOP	PVT - Flex Administration	Attend Safety Training	Grand Total
	3.50				16.00
	4.00		0.25		40.00
	7.75		0.25		40.00
	4.56				40.00
	16.50			1.00	41.00
	10.75		0.75		40.00
	13.25				40.00
	9.50		0.25		32.00
4.00	15.25				40.00
	8.50		0.75		40.00
	25.00		0.25		40.00
10.00	16.25				40.00
3.00	12.75		4.00		48.00
	5.50		0.50		32.00
	11.50		0.50		40.00
	10.75				24.00
	23.25		0.50		40.00
	8.00				24.00
9.50					16.00
0.25	9.75				40.00
	17.25				40.00
	12.25				32.00
	12.50				32.00
	19.00				40.00
	8.00				16.00
	19.50				40.00
	22.00				40.00
	8.00				8.00
	1.75				24.00
	20.75				40.00
	12.75				40.00
	18.75				40.00
	17.50				32.00
	2.00				8.00
	4.50	0.50			40.00
	6.50				24.00
	9.50				40.00
	2.75				32.00
	11.25				40.00
	7.00				38.00
	18.00				40.00
	10.50				36.00
	6.25				24.00
	25.00				40.00
	24.50				36.00
	27.25				40.00
	34.00				45.00
	1.50				1.50
	38.00				46.00
	40.00				40.00
	43.00				47.50
	40.50				45.50
	33.75				50.50
	41.00				51.00
	11.75				20.00
	5.00				8.00
	1.25				16.00
	3.00				4.00
7.75	855.00	0.50	4.00	1.00	1928.50
9%	44.3%	0.0%	0.2%	0.1%	100.0%

.3

19

5.0 Due?

2003 Actual Hours - KKenui

Sum of NO_OF_HOI date: process_date	ASB - HEIRS ADMINISTRATION	ASB - PENSION ADMINISTRATION	Attend Safety Training	Corporate Culture Survey	Develop & Administer Business Plans	Ee Trng & Dev Needs, PDS Prep/Mtg	Empl Benefits Admin & General Exp	H18926 001 HEL - ADMINISTRATION (other)	H18927 001 HEIRS ADMINISTRATION	H18927 001 HEL - OPEB ADMINISTRATION	H18927 001 HEL - PENSION ADMINISTRATION	HEI - ADMINISTRATION (other)	HEI - HEIRS ADMINISTRATION	HEI - OPEB ADMINISTRATION	HEI - PENSION ADMINISTRATION	HPC - HEIRS ADMINISTRATION	M15811 001 HEIRS ADMINISTRATION	M15811 001 OPEB ADMINISTRATION	M15811 001 PENSION ADMINISTRATION	M15812 001 ADMINISTRATION (other)	PEC - HEIRS ADMINISTRATION	PHE - ADMINISTRATION (other)
adjusted hours	47	9	1	2	0	4	4	26	11	52	17	52	2	19	4	0	4	52	7	32	7	4	75
adjusted percentage of productive hrs	2.5%	0.5%	0.1%	0.0%	0.2%	0.2%	1.4%	0.6%	2.8%	0.9%	2.8%	0.1%	1.0%	0.2%	0.0%	0.2%	2.8%	0.4%	1.7%	0.4%	0.2%	4.0%

2003 Actual Hours - KKenui

Sum of NO_OF_HOI process_date	PHE - HEIRS ADMINISTRATION	PHE - OPEB ADMINISTRATION	PHE - PENSION ADMINISTRATION	Prepare time sheet/Time entry process	PRE-RETIREMENT WORKSHOP	TOOTS Charges	Grand Total	
adjusted hours	395	93	857	37	48	4	1864	1864
adjusted percentage of productive hrs	21.2%	5.0%	46.0%	2.0%	2.6%	0.2%	100.0%	

Ho, Karen

From: Ho, Karen
Sent: Saturday, February 07, 2004 3:04 PM
To: zz$HR-FB; zz$HR-FC
Subject: RE: Labor Forecast for 2005

Keep in mind that this is just a forecast so all I need is your best estimate. Thanks!

-----Original Message-----
From: Ho, Karen
Sent: Saturday, February 07, 2004 2:59 PM
To: zz$HR-FB; zz$HR-FC
Subject: Labor Forecast for 2005
Importance: High

Hi-

I am preparing our department's labor forecast for 2005 and desperately need your help. In your in-box is a spreadsheet of your 2003 actual hours charged to the different activities. The column headings are the various activities that you have performed. At the bottom of the spreadsheet is the percentage of productive hours (the total hours charged to that activity divided by the grand total of the last column). Please review the report and various activities that you have charged your time to. There maybe some activities that you performed in 2003 that doesn't necessarily apply to 2005. Therefore, please make the following adjustments:

- cross out the activities that does not apply to 2005
- add activities that you will be doing in 2005 that do not appear on the report and include the % of productive time
- adjust the percentage of productive hours (i.e., if you are not performing a particular activity in 2005, that time is spent doing something else; therefore, you would need to add that time to another activity)

Also, please let me know when you plan to take vacation in 2005. I need the hours by month. This will help me determine the total productive hours (total available hours per month minus vacation/holidays).

For your information, labor hours are entered into the Pillar budgeting system by hours per month. I need to enter vacation by hours per month and labor by activity by hours per month. Yes, a very tedious process!

DEADLINE: Return the spreadsheet with your changes to me ASAP or by end of the day on Monday, February 9. I need time to enter all this on Pillar and my deadline is Noon on February 11.

CONFUSING?...QUESTIONS?...Please see me if you have any questions.

Thank you!
Karen

January 8
February 8
March
April
May 40
June

July
August 40
September
October
November
December 24

Done
thanks

811 001 IS INISTRAT	M15811 001 OPEB ADMINISTRAT ION	M15811 001 PENSION ADMINISTRAT ION	M15812 001 ADMINISTRAT ION (other)	PEC - HEIRS ADMINISTRAT ION	PHE - ADMINISTRAT ION (other)
					3.00
			0.50		2.50
					1.00
		1.00			2.00
	1.00				3.00
	0.50	2.00			1.00
		1.00			
		1.00			7.00
					2.00
					2.00
					1.50
		0.25			1.00
	0.50				
		2.00	1.00		2.00
		2.00			1.00
					2.50
		2.00			
	0.50	3.00			1.50
		1.00			2.00
					4.00
					1.00
	1.00				1.00
					2.00
					1.50
					8.00
1.00					
				0.33	
0.50					
0.00		4.00	1.00		5.00
3.00		1.00			
2.00					
3.50					
4.50					
1.50	2.00	1.00			
2.00	2.00	1.00			
2.50		1.00			2.00
1.00		1.00	1.00		3.00
3.00					
		2.00			2.00
		1.50		0.50	1.00
0.50		2.00			1.00
		1.00	3.00	0.50	6.00
1.00					
26.50	7.50	30.75	6.50	1.33	72.50
~~1.4%~~ 2.8%	0.4%	1.7%	0.4%	~~0.0%~~ .2	4.0%

2003 Actual Hours - KKenui

Sum of NO_OF_HOI

process_date	PHE - HEIRS ADMINISTRATION	PHE - OPEB ADMINISTRATION	PHE - PENSION ADMINISTRATION	Prepare time sheet/Time entry process	PRE-RETIREMENT WORKSHOP	TOOTS Charges	Grand Total
1/6/2003		1.00	8.00				16.00
1/13/2003		4.50	9.50	0.50			36.00
1/20/2003		15.00	3.50	0.50			40.00
1/27/2003		13.00	9.50	0.50			40.00
2/3/2003		6.00	10.00				40.00
2/10/2003		3.00	12.00	0.50			32.00
2/24/2003		4.00	17.00				32.00
2/26/2003		5.00	26.50	1.00			40.00
3/3/2003		6.50	20.00	0.50			40.00
3/17/2003		2.50	23.50	0.50			32.00
3/24/2003	8.50	1.00	20.00	1.00			40.00
3/28/2003			10.00	0.50			32.00
4/1/2003			4.00				5.50
4/7/2003			12.00				30.50
4/11/2003		0.50	5.00	0.50			36.50
4/21/2003		2.00	6.00				32.00
4/28/2003		4.00	10.00	0.50			40.00
4/30/2003			4.00				24.00
5/5/2003			4.00			2.00	14.00
5/12/2003		2.00	26.00				40.00
5/19/2003		2.00	23.00	0.50		1.00	40.00
5/27/2003			18.00				24.00
6/2/2003			5.00	0.50	23.50		32.00
6/9/2003			24.50		8.00		40.00
6/16/2003	2.00	0.50	20.00	0.50			32.00
6/20/2003		2.00	16.00	0.50			28.00
6/30/2003		1.50	31.00	0.50			40.00
7/7/2003		1.00	18.00				24.00
7/14/2003		1.00	32.00				40.00
7/21/2003		2.00	34.50				40.00
7/28/2003		2.50	33.00	0.50			40.00
8/1/2003		1.00	29.00	0.50			32.00
8/4/2003			8.00				8.00
8/11/2003		1.00	38.50	0.50			40.00
8/18/2003		1.00	25.50	0.50			28.00
8/25/2003		6.00	25.50	0.50			40.00
9/2/2003	18.00	2.00	18.50	0.50			40.00
9/8/2003	15.50	2.00	12.00	0.25			32.00
9/15/2003	15.00	4.00	16.00	0.25			40.00
9/23/2003	13.00	4.00	20.00				38.00
9/29/2003	8.00	2.50	7.00	0.50			22.00
9/30/2003	3.00	1.00	1.50	1.00			16.00
10/6/2003	8.50	1.50	6.50	0.50			24.00
10/10/2003	22.50	2.50	5.00	1.00			40.00
10/20/2003	6.00	2.50	8.00				32.00
10/27/2003	7.00	4.50	3.50	1.00			38.00
10/31/2003	2.00	7.00	10.00	1.00			40.00
11/10/2003	5.50	8.00	10.00	0.50			40.00
11/17/2003	2.00	6.50	9.50	0.50			32.00
11/24/2003	3.00	9.50	8.00	0.50	16.00		40.00
12/1/2003	7.00	2.00	12.00				28.00
12/8/2003	1.50	2.00	6.00	1.00			32.00
12/14/2003	1.00	3.50	21.50	2.00			40.00
12/22/2003	1.50	4.00	13.00	1.50	0.50		40.00
12/29/2003			14.00				16.00
12/31/2003			16.00				16.00
Grand Total	148.50	160.50	842.00	23.50	48.00	3.00	1828.50
Percentage of productive hrs	8.1%	8.8%	46.0%	1.3%	2.6%	0.2%	100.0%

21.20% 6% 2%

Labor Input S[illegible]t - NonProject
2005

Prepared by KHO
Date 2/7/2004

	Rates tab card	Units tab card												
r Class	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
		(enter employee count in "Units tab card")												
	Available Hours	1	1	1	1	1	1	1	1	1	1	1	1	12
		(enter hours in "Units tab card")												
	TC	0	8	8	0	8	8	8	8	8	8	16	16	96
	TC										40		24	64
	TC													0
	TC													0
	TC													0
	TC													0
	TC													0
	TC	1	1	2	1	4	2	1	1	2	1	1	2	19
	TC	20	20	20	20	20	20	20	20	20	20	20	20	240
	TC	3												3
	TC		1			1								2
	TC	1		1	1						8			11
	TC													0
	TC													0
	TC													0
	TC	145	140	153	146	145	146	140	155	146	100	140	120	1,676
	TC													0
Pgm Demand		170	170	184	168	178	176	169	184	176	177	177	182	2,111
		168	160	184	168	176	176	168	184	176	168	176	176	2,080
6, 12/30 (1/2)		0	8	8	0	8	8	8	8	8	8	16	16	96
		168	160	184	168	176	176	168	184	176	168	176	176	2080
upply		2	10	0	0	2	0	1	0	0	9	1	6	31

ly hours due to Project Demand hours (which are budgeted in the Project file)

2003 Actual Hours - MMinatoya

Sum of NO_OF_H	desc										
date	Attend Safety Training	Attend Training	Develop & Administer Business Plans	Ee Trng & Dev Needs; PDS Prep/Mtg	Empl Benefits Admin & General Exp	INCIDENT RESPONSE PLAN AND EXERCISE	Integrated Absence Mgmt / Case Mgmt	MERIT SAFETY MEETINGS-Session 3	Strike Prep-Informational Meetings	WC LABOR	Grand Total
1/6/2003				3.00						13.00	16.00
1/13/2003					1.00					40.50	41.50
1/20/2003										40.00	40.00
1/27/2003	1.00				1.00					41.50	43.50
2/3/2003		1.00								43.50	44.50
2/10/2003										40.00	40.00
2/18/2003							1.00			40.00	41.00
2/24/2003										34.00	34.00
3/3/2003					1.00					41.00	42.00
3/10/2003										40.50	40.50
3/17/2003							1.00			42.00	43.00
3/24/2003										18.00	18.00
3/31/2003	1.00									23.00	24.00
4/7/2003										34.00	34.00
4/14/2003	1.00									39.00	40.00
4/21/2003										32.00	32.00
4/28/2003					1.00					40.00	41.00
5/1/2003										24.00	24.00
5/5/2003										16.00	16.00
5/12/2003		1.00				2.50				41.00	44.50
5/19/2003										40.50	40.50
5/27/2003					2.00					38.00	40.00
6/2/2003										32.00	32.00
6/9/2003					2.00					38.00	40.00
6/16/2003										33.50	33.50
6/23/2003					1.00					40.00	41.00
6/30/2003			2.00							41.50	43.50
7/7/2003					2.00					30.00	32.00
7/14/2003										43.50	43.50
7/21/2003					1.00					42.00	43.00
7/28/2003										44.00	44.00
8/1/2003										36.00	36.00
8/4/2003					1.00		1.00			7.00	9.00
8/11/2003							10.00			33.00	43.00
8/18/2003					1.00		14.00			21.50	36.50
8/25/2003							5.00			37.00	42.00
9/2/2003							4.00			38.50	42.50
9/8/2003							2.00			32.00	34.00
9/15/2003										32.00	32.00
9/29/2003							1.00			42.00	43.00
10/2/2003							1.00			16.00	17.00
10/6/2003					1.00					24.00	25.00
10/10/2003										41.50	41.50
10/20/2003								8.00		33.00	41.00
10/27/2003										41.00	41.00
10/31/2003					0.50				1.00	42.00	43.50
11/10/2003										41.00	41.00
11/17/2003										33.00	33.00
11/24/2003										42.00	42.00
12/1/2003										33.00	33.00
12/8/2003							6.00			36.00	42.00
12/15/2003							4.00			36.00	40.00
12/22/2003										40.00	40.00
12/29/2003										8.50	8.50
1/2/2004							2.00			18.00	20.00
Grand Total	3.00	2.00	2.00	3.00	15.50	2.50	52.00	8.00	1.00	1876.00	1959.00
Percentage of productive hrs	0.2%	0.1%	0.1%	0.2%	0.8%	0.1%	2.7%	0.4%	0.1%	95.5%	100.0%

VACATION: 12/04: 24 HOURS.
10/04: 40 HOURS.

RETURN TO WORK PROGRAM
HR.OC.1322 (10%).

Labor Input S[illegible]t - NonProject
2005

Resp Area (RA) PPW
Labor Class FS (PO)

Prepared by KHO
Date 2/7/2004

Dimension tab card								Rates tab card	Units tab card												
Line Item	RA	Act	Loc	Ind	Proj	EE	Labor Class	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Labor Supply:									*(enter employee count in "Units tab card")*												
Labor Supply	PPW	*Supply	*Supply	*Supply	*Supply	*Supply	FS	Available Hours	1	1	1	1	1	1	1	1	1	1	1	1	12
Labor Demand:									*(enter hours in "Units tab card")*												
Holiday	PPW	098	PHE	ND		107	FS	FS	0	8	8	0	8	8	8	8	8	8	16	16	96
Vacation	PPW	098	PHE	ND		107	FS	FS		56								136			192
Other NPW	PPW	098	PHE	ND		107	FS	FS													0
Workers Comp	PPW	098	PHE	ND		108	FS	FS													0
Dev & Admin Bus Plans	PPW	700	PHE	NE	NPFZZZZZ	150	FS	FS						2							2
Main Rel w/ Govt Agency	PPW	745	PHE	NE	NPFZZZZZ	150	FS	FS	7	7	7	7									28
Main Rel w/ Ind Profess	PPW	749	PHE	NE	NPFZZZZZ	150	FS	FS									2		4		6
EE Ben Admin/Gen	PPW	776	PHE	NE	NPFZZZZZ	150	66	FS	21	22	21	22	21	22	21	22	21	22	21	22	256
IAM	PPW	780	PHE	NE	NPFZZZZZ	150	FS	FS	32	32	32	32	32	32	32	32	32	32	32	32	384
PDS Prep/Mtg	PPW	785	PHE	NE	NPFZZZZZ	150	FS	FS	2												2
Workers' Comp	PPW	953	HEL	BE	NPFZZZZZ	150	FS	FS	2	3	2	3	2	3	2	3	2	3	2	2	29
Workers' Comp - TOOTS	PPW	953	HEI	BE	NPFZZZZZ	150	FS	FS	1	1	1	2	1	1	1	2	1	1	1	2	15
Workers' Comp	PPW	953	MAU	BE	NPFZZZZZ	150	FS	FS	3	3	3	3	3	3	3	3	3	3	3	3	36
Workers' Comp	PPW	953	PHE	NE	NPFZZZZZ	150	FS	FS	109	79	159	109	109	109	109	149	139	19	109	109	1,308
Attend Safety Trng	PPW	797	PHE	NE		150	FS	FS	1												1
Total NonProj/Pgm Demand									177	211	233	178	176	160	176	219	208	224	188	186	2,357 ~~2,356~~
Total Supply									168	160	184	168	176	176	168	184	176	168	176	176	2,080
Holidays - 2/21, 3/25, 5/30, 6/10, 7/4, 8/19, 9/5, 10/10, 11/11, 11/24, 12/23 (1/2), 12/26, 12/30 (1/2)									0	8	8	0	8	8	8	8	8	8	16	16	96
Available hours per employee									168	160	184	168	176	176	168	184	176	168	176	176	2080
Demand minus Supply									9	51	49	10	0	4	8	35	32	56	12	10	277 ~~276~~

NOTE: Total NonProject Demand hours may *NOT* equal Total Supply hours due to Project Demand hours (which are budgeted in the Project file)

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2003 Actual Hours - POshiro

...of NO_OF_H...desc

process_date	Develop & Administer Business Plans	Ee Trng & Dev Needs; PDS Prep/Mtg	Empl Benefits Admin & General Exp	H01500 HELCO ICB-WC	HEI HTB - WC LABOR (TOOTS)	Integrated Absence Mgmt / Case Mgmt	M15817 001 MECO ICB-WC	Maint Rel w/ Industry, Prof Assoc	Maintain Rel w/ Legislature & Gov't	Negotiations 2003	Staffing	WC ISD DEVELOPMENT CHARGES / SOFTWARE	WC LABOR	WC Labor - Risk Management	Grand Total
adjusted hours	2.00	2.00	259.50	29.00	15.00	385.00	35.50	6.00	28.00	0.00	9.50	141.50	1136.00	20.00	2069.00
adjusted % of productive hrs	0.1%	0.1%	12.5%	1.4%	0.7%	18.6%	1.7%	0.3%	1.4%	0.0%	0.5%	6.8%	+9.5 54.9%	1.0%	100.0%
	700	785	776	953	953	780	953	749	745			953	1145.5 953	953	
	✓	✓	✓	✓	✓	✓	✓	✓	✓						

953 PHE 1707

ABOR	WC Labor - Risk Management	Grand Total
16.00		16.00
32.00		48.50
30.50		49.00
30.00	5.00	43.00
23.00		47.00
21.50		44.00
22.00		46.50
12.00		20.00
18.00		25.50
29.00		48.00
22.00		36.50
26.00		45.50
14.00		69.50
13.00		35.00
13.00		29.00
17.00	2.00	35.50
18.00	4.00	46.00
24.50	1.00	36.00
28.00		45.00
24.00	1.00	44.50
14.00	10.00	37.00
24.00		49.00
22.00		39.50
28.00		48.00
24.00		46.00
17.00	1.00	37.00
28.00	1.00	47.00
25.50		44.50
24.00		47.00
17.00		39.00
5.00		9.50
22.00		48.50
14.00		37.50
12.00	2.50	27.00
22.00		41.00
17.00	1.50	36.50
21.00		45.50
34.00		47.00
34.50		40.00
14.00		20.00
15.00	1.00	28.50
35.00		46.00
27.50		36.00
30.00		47.50
28.00		47.00
27.00		43.50
21.00		37.00
16.50		35.50
17.00	1.00	29.00
40.00		40.00
17.00		6.00
10.00		16.50
21.00	1.00	35.00
10.00		17.50
13.50		16.50
36.00	32.00	2069.00
	200	
.9%	1.5%	100.0%

b) 3:21PM

pr 05	May 05	Jun 05	Jul 05	Aug 05	Sep 05	Oct 05	Nov 05	Dec 05
0	0	0	0	0	0	0	0	0
-22	-21	-22	-21	-22	-21	-22	-21	-22
-32	-32	-32	-32	-32	-32	-32	-32	-32
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
-2	-1	-1	-1	-2	-1	-1	-1	-2
0	0	0	0	0	0	0	0	0
-3	-2	-3	-2	-3	-2	-3	-2	-2
0	0	0	0	0	0	0	0	0
-3	-3	-3	-3	-3	-3	-3	-3	-3
0	0	0	0	0	0	0	0	0
109	-109	-109	-109	-149	-139	-19	-109	-109
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
-10	0	-4	-6	-35	-32	-56	-12	-10
168	176	176	168	184	176	168	176	176
0	-8	-8	-8	-8	-8	-8	-16	-16
0	0 -160	40 0	0	0	0	40 0	0	0
0	0	-4	0	0	0	0	0	0
-2	0	-1	-1	-1	-3	0	-2	-1 h
-3	0	-2	-2	-2	-3	-2	-2	-2
-20	20 0	-20	-20	-20	-20	-20	-20	-20 k
0	0	0	0	0	0	0	0	0
-1	-1	-1	-1	-1	-1	-1	-1	-1
141	146 0	97 -138	-135	-151	-140	96 -138	-134	-135
0	0	0	0	0	0	0	0	0
-1	-1	-1	-1	-1	-1	-1	-1	-1
0	0	0	0	0	0	0	0	0
168	176	176	168	184	176	168	176	176
0	-8	-8	-8	-8	-8	-8	-16	-16
0	0	0	0	0	0	-40	0	-24
0	0	0	0	0	0	0	0	0
-1	-4	-2	-1	-1	-2	-1	-1	-2
20	-20	-20	-20	-20	-20	-20	-20	-20
0	0	0	0	0	0	0	0	0
0	-1	0	0	0	0	0	0	0
-1	0	0	0	0	0	-8	0	0
0	0	0	0	0	0	0	0	0

Version: 04

DARS 1706 - 2003 ACTUAL LABOR HOURS
Data as of 1/27/04

LAST NAME	FIRST NAME	TYPE	WO/PROJ NO.	DESCRIPTION	COST CENTER	TOTAL HOURS
NADA	SANDRA	W	IR000026	Apprenticeship Labor	PPA786PHENENPPZZZZZ	182.50 bb
HANABUSA	LISA	W	IR000026	Apprenticeship Labor	PPI786PHENENPPZZZZZ	249.25 cc
					Total hours for 786	**431.75**

Activity: 786

Per Attch 1: 180
288
Difference due to rounding

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SSF - CA/IR
Safety, Security Facilities

PHA - SSF Admin

Dept	_RA	Resp Area	Acct Blk	Acct Blk Descr	NARUC	Exp Class	_Proj	_Act	_Loc	_EE	FY05	CA-1 a CA-2 a	b b	c c	d d	e e	f f	g g
PHA - SSF ADMIN																		
SSF	PHA	Admin-Facilities	B38	A & G Operation	926	Labor	NPHZZZZZ	935	PHE	150	284.64	Joycelynn Chun, SSF Secretary	Staffing level remains consistant - 1-Enabler 1-Implmntr	Wage rate increase assumptions for café related work embedded in standard labor rates by Budgets	None			
					926	LABOR COSTS					284.64							

dd

Labor Input Sheet - N /oject
2005

Resp Area (RA) FD
Labor Class TC

Prepared by Sandy Olson
Date 2/10/2004

Dimension tab card								Rates tab card	Units tab card												
Line Item	RA	Act	Loc	Ind	Proj	EE	Labor Clas	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Labor Supply:													*(enter employee count in "Units tab card")*								
Labor Supply	FD	*Supply	*Supply	*Supply	*Supply	*Supply	TC	_ Available Hours	6	6	6	6	6	6	6	6	6	6	6	6	72
Labor Supply	FD	*Supply	*Supply	*Supply	*Supply	*Supply	TC	_ Available Hours	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-12
Labor Supply	FD	*Supply	*Supply	*Supply	*Supply	*Supply	TC	_ Available Hours	5	5	5	5	5	5	5	5	5	5	5	5	60
Labor Demand:													*(enter hours in "Units tab card")*								
Holiday	FD	098	PHE	ND		107	TC	TC	48	48	48	48	48	48	48	48	48	48	48	48	576
Holiday - Update 2/10/04									-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-96
Vacation - Subtotal Holiday									40	40	40	40	40	40	40	40	40	40	40	40	480
Vacation	FD	098	PHE	ND		107	TC	TC	68	68	68	68	68	68	68	68	68	68	68	68	816
Vacation - Update 2/10/04												-60					-60				-120
Vacation - Subtotal									68	68	68	8	68	68	68	68	8	68	68	68	696
Other NPW	FD	098	PHE	ND		107	TC	TC													0
Workers Comp	FD	098	PHE	ND		108	TC	TC													0
Subtotal - Non-productive									108	108	108	48	108	108	108	108	48	108	108	108	1,176
Manage & Participate in Environmental Issues	FD	720	PHE	NE	NPFZZZZZ	150	TC	TC					25				25			25	75
CS Consultant Labor/Dev & Analyze Measures	FD	721	PHE	NE	PFZZZZZ	150	TC	TC	31	31	31	31	31	31	30	30	30	30	30	40	376
02/10/04 - Delete 6th Consultant																				-10	-10
Subtotal - PFD721									31	31	31	31	31	31	30	30	30	30	30	30	366
CS Consultant Labor/Design, Deploy, Assess Org De	FD	722	PHE			150	TC	TC	98	98	98	103	108	108	108	108	108	108	108	107	1,260
													-40					-45			-85
Subtotal - PFD722									98	98	98	103	68	108	108	108	108	63	108	107	1,175
CS Consultant Labor/Maintain Relations w/Industry P	FD	749	PHE			150	TC	TC			10	10	10	10	10	10	10	10			80
CS Consultant Labor/Dev, Manage, Admin EE Pol/Pr	FD	765	PHE			150	TC	TC	190	200	200	200	200	200	200	200	200	200	200	165	2,355
02/10/04 - Delete 6th Consultant												-215					-215				-430
Subtotal - PFD765									190	200	200	-15	200	200	200	200	-15	200	200	165	1,925
Recruiting Pol/Prac	FD	767	PHE			150	TC	TC	369	450	450	450	450	450	450	450	450	450	450	450	5,319
02/10/04 - Delete 6th Consultant													-230					-225			-455
Subtotal - PFD 767									369	450	450	450	220	450	450	450	450	225	450	450	4,864
Recruiting Pol/Prac (HEI)	FD	767	BE			150	TC	TC		6		6		6		6		6		6	36
Recruiting Pol/Prac (HEIPC)	FD	767	BE			150	TC	TC													0
Recruiting Pol/Prac (PECS)	FD	767	BE			150	TC	TC													0
Recruiting Pol/Prac (PVT)	FD	767	BE			150	TC	TC													0
Recruiting Pol/Prac (HELCO)	FD	767	BE			150	TC	TC	70	76	70	76	70	76	70	76	70	76	70	76	876
02/10/04 - Delete 6th Consultant									-70	-76	-70	-76	-70	-76	-70	-76	-70	-76	-70	-76	-876
Subtotal - PFD767 (HELCO)									0	0	0	0	0	0	0	0	0	0	0	0	0
Plan for & Determine Ee Trng Development	FD	785	PHE			150	TC	TC	50	50	50	50	50	50	50	50	50	50	50	43	593
Conduct Training	FD	788	PHE			150	TC	TC						10						10	20
Attend Training	FD	789	PHE			150	TC	TC		10		10		10		10		15		15	70
Safety Training	FD	797	PHE								28										28
02/10/04 - Delete 6th Consultant											-8										-8
Subtotal - Safety Training									0	0	20	0	0	0	0	0	0	0	0	0	20
	FD					150	TC	TC													0

Acct 926000

TC - 2005 (All Consultants)

Activity	w/training Alma	Danny	Lani	Harriet	Tammy	New	Total	Hrs/Mo	Qtr/Mo
Gross Available Hours per Year (standard labor hours from Accounting)	2080	2080	2080	2080	2080	0	10400	867	
ition	200	96	160	120	120	0	696	58	
Holidays	96	96	96	96	96	0	480	40	
Net Available Hours Per Year	**1784**	**1888**	**1824**	**1864**	**1864**	**0**	**9224**	**769**	
Project Labor Forecasts									
PFD788 - Conduct Training (540 hours/6 consultants; conduct/prep 2:1)	108	108	108	108	108	0	540	45	
PFD789 - Attend Training	0	6		6	0	0	12	1	
Subtotal - Project	**108**	**114**	**108**	**114**	**108**	**0**	**552**	**46**	
***Original forecast for Attend Training (Ishii 20; Kirihara 16)**									
Non-Project Labor Forecasts									
PFD364 - Make Emergency Transmission Overhead Line Repairs	0	0	0		0	0	0	0	0
PFD720 - Manage and Participate in Environmental Initiatives		75					75	6	0
PFD721 - CS Consultant Labor/Dev & Analyze Measures	40	10	50	186	80	0	366	31	0
PFD722 - CS Consultant Labor/Design, Deploy, Assess Org Dev Strat	200	400	250	200	125	0	1175	98	0
PFD749 - CS Consultant Labor/Maintain Relations with Industry	0	60	20		0	0	80	7	0
PFD765 - CS Consultant Labor/Dev, Manage, Admin EE Pol/Prac/Proc	400	400	250	700	175	0	1925	160	0
PFD767 - Recruiting Pol/Prac	746	828	1146	748	1396	0	4864	405	0
PFD767 (HEIPC)	0		0			0	0	0	0
PFD767 (PECS)	0		0			0	0	0	0
PFD767(HEI)	36		0			0	36	3	0
PFD767(PVT)	0		0			0	0	0	0
PFD767(HELCO)	0	0	0	0	0	0	0	0	
785 - Plan for & Determine Employee Training Development	358	75	50	30	80	0	593	49	
788 - Conduct Training	0	0	20		0	0	20	2	0
PFD789 - Attend Training	0	40	30		0	0	70	6	0
PFD797 - (Safety Trng)	4		8		8	0	20	2	0
PFD953 - Provide & Manage Risk Management Services - WC	0		0			0	0	0	0
Subtotal - NonProject	**1784**	**1888**	**1824**	**1864**	**1864**	**0**	**9224**	**769**	**0**
Cross Reference (this field should equal to 0; if positive if you are over by this amount, if a									

Labor Input Sheet - NonProject
2005

Resp Area (RA) FA 34010-Chase Kawakami
Labor Class TC HRIS System Analyst

Prepared by Chase Kawakami
Date: 3/16/04

Dimension tab card								Rates tab card	Units tab card												
									36	37	55	55	60	60	55	45	35	61	59	42	600
Line Item	RA	Act	Loc	Ind	Proj	EE	Labor Class	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
HECO Salary Admin	FA	775	PHE	NE	NPFZZZZZ	150	TC	Available Hrs	1	2	3	3	3	2	2	3	3	3	2	1	28
HELCO Salary Admin	FA	775	HEL	BE	NPFZZZZZ	150	TC	Available Hrs	1	1	1	1	1	1	0	0	0	0	0	0	6
MECO Salary Admin	FA	775	MAU	BE	NPFZZZZZ	150	TC	Available Hrs	1	1	1	1	1	1	0	0	0	0	0	0	6
HECO Benefits On-Line	FA	778	PHE	NE	NPFZZZZZ	150	TC	Available Hrs	2	2	1	2	2	1	2	2	1	2	1	2	20
HELCO Benefits On-Line	FA	778	HEL	BE	NPFZZZZZ	150	TC	Available Hrs	1	0	0	0	0	1	0	0	0	0	0	1	3
2/16/04 Update for HR/Benefits Sys proj									1	1	1	1	1	1	1	1	1	1	1	1	12
Total									2	1	1	1	1	2	1	1	1	1	1	2	15
MECO Benefits On-Line	FA	778	MAU	BE	NPFZZZZZ	150	TC	Available Hrs	1	0	0	0	0	1	0	0	0	0	0	1	3
2/16/04 Update for HR/Benefits Sys proj									1	1	1	1	1	1	1	1	1	1	1	1	12
Total									2	1	1	1	1	2	1	1	1	1	1	2	15
HEI Benefits On-Line	FA	778	HEI	BE	NPFZZZZZ	150	TC	Available Hrs	1	0	0	0	0	0	0	0	0	0	0	0	1
2/16/04 Update for HR/Benefits Sys proj																				1	1
Total									1	0	0	0	0	0	0	0	0	0	0	1	2
Attend Training	FA	789	PHE	NE	NPFZZZZZ	150	TC	Available Hrs	1	1	1	1	1	1	1	1	1	1	1	1	12
Attend Safety Training	FA	797	PHE	NE	NPFZZZZZ	150	TC	Available Hrs	1												1
								Total NonProj/Pgm Demand	132	123	129	113	116	116	113	139	141	107	117	134	1,480
								Total Supply	168	160	184	168	176	176	168	184	176	168	176	176	2,080
Holidays - 2/21, 3/25, 5/30, 6/10, 7/4, 8/19, 9/5, 10/10, 11/11, 11/24, 12/23 (1/2), 12/28, 12/30 (1/2)									0	8	8	0	8	8	8	8	8	8	16	16	96
Available hours per employee									168	160	184	168	176	176	168	184	176	168	176	176	2080

NOTE: Total NonProject Demand hours may *NOT* equal Total Supply hours due to Project Demand hours (which are budgeted in the Project file)

hh

Acct 926010

S:\HumanResources\HRWSD\Budget\WSD_Forecast_Submitted_in_2004\FA_Forecast_Submitted_in_2004\Non-project\Chase\2005NonProjectNonProgramLaborInputSheet.xls

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CA-IR-2

General Information Requests

For each of the HECO witnesses who sponsor test period budgeted non-labor direct expense amounts, please provide the following information:

a. Identify each employee involved in preparation of budgeted non-labor direct expense amounts included in the rate case test period budget and sponsored by the witness.

b. Provide complete copies of all calculations, spreadsheet files, "pencil" workpapers, surveys and other analyses performed by each of the employees identified in response to part (a), indicating the amounts by Department, RA, Activity and NARUC Account that such calculations support.

c. For each budgeted non-labor amount in the test period forecast that exceeds $50,000, please

describe the basis for determining the budgeted amount (for example, bid solicitation, price times quantity estimation, historical cost escalated, etc.)

Dept	Employee
Compensation & Benefits	Julie Price, Karen Ho, Phyllis Hanta, Myra O'Brien, Patricia Oshiro, Jayne Marler, Ryan Okahara.
IR	Lisa Hanabusa, Jeri Morimatsu
IT	Blane Murakami
President's Office	Carol Igarashi
SSF	Eugene Uemura, Alan Cardoza
WFSD	Lisa Masutani

b. Input sheets and supporting workpapers by department are provided as Attachments 2-14. These supporting workpapers include codes (a,b,c, etc.) that correspond with the account totals on Attachment 1.

c. See Attachment 15 for a description of the basis for determining each budgeted non-labor amount that exceeds $50,000.

d. Included in Attachment 15.

e. Included in Attachment 15.

f. None.

g. Provided in response to b and c above.

CA-T-1 Attachment 1.xls\NonLabor

Account 926000
Acct Blk B38 A&G Operation
Non-Labor

Item No.	Dept	RA	Resp Area	Proj	Act	*	Loc	EE		FY05		Description/Reference
1	Comp & Ben	PFB	Employee Benefits	NPFZZZZZ	749	a	PHE	501	$	625.00		Attch 2
2						b		516	$	959.00		"
3						c		520	$	750.00		"
4						d		521	$	125.00		"
5					776	e		205	$	6,278.00		"
6						f		301	$	960.00		"
7						g		462	$	1,093.80		"
8						h		501	$	47,679.00		Attch 3, pg. 1
9						i		502	$	7,409.04		"
10					779	j		501	$	44,467.32		Attch 4, pg. 1
11						k		502	$	18,243.96		"
12						l		509	$	11,455,000.00	**	see HECO-1503, 1506, pg. 3[1]
13								900	$	(297,444.00)		Retiree electric discount
14								901	$	1,301,839.00	**	Attch 5, pg. 1
15					780	m		205	$	500.00		Attch 2
16						n		501	$	102,808.04	**	Attch 2, Attch 6
17						o		509	$	103,236.00	**	see HECO-1507, Attch 7[2]
18						p		900	$	161,418.00	**	Attch 8
19					789	q		501	$	625.00		Attch 2
20						r		520	$	750.00		"
21						s		521	$	125.00		"
22					965	t		501	$	600.00		Attch 9
23	**Comp & Ben**								**$**	**12,958,047.16**		
24	Ind Rel	PPI	Labor Rel & Wage Adm	NPPZZZZZ	786	u	PHE	201	$	8,800.00		Attch 10
25	Ind Rel					v		501	$	18,500.00		"
26	Ind Rel					w		521	$	300.00		"
27	**Ind Rel**								**$**	**27,600.00**		
28	InfoTech	PEZ	ISD Chargeback	NPFZZZZZ	779	x	PHE	451	$	35,928.00		Attch 11, pg. 6
29	**InfoTech**								**$**	**35,928.00**		
30	President	P9P	President	NPAPRESI	776		PHE	550	$	46,280.00		HEI chgs see HECO-1310
31	President				779				$	186,666.00	**	"
32	**President**								**$**	**232,946.00**		
33	SSF	PHA	Admin-Facilities	P0000498	935		WRD	201	$	2.00		See Project No. P0000498
34	SSF							501	$	4,801.00		"
35	**SSF**	**PHA**							**$**	**4,803.00**		
36	SSF	PHS	Security	NPHZZZZZ	780	y	PHE	501	$	45,288.00		Attch 12
37	**SSF**	**PHS**							**$**	**45,288.00**		
38	**SSF**								**$**	**50,091.00**		
39	WFSD	PFI	Org Development	P0000128	780		PHE	501	$	122,600.00	**	See Project No. P0000128
40	WFSD				788			201	$	90,092.00	**	"
41	WFSD							501	$	19,000.00	**	"
42	**WFSD**								**$**	**231,692.00**		
43	**Total 926000 NonLabor**								**$**	**13,536,304.16**		**HECO-WP-101(G), pg. 977**

* See Attachments 2-12 for corresponding support documents
** Amounts greater than $50,000

[1] $398,000 for non-qualified plans deleted
[2] ($457,316) for executive life deleted

CA-IR-1Attachment 1, pg. 2.xls\NonLabor

Account 926010
Acct Blk B38 A&G Operation
Non-Labor

Item No.	Dept	RA	Resp Area	Proj	Act	*	Loc	EE	FY05		Reference/Description
1	Comp & Ben	PFB	Employee Benefits	NPFZZZZZ	778	aa	PHE	501	$ 75,042.00		Attch 13
2						bb		509	$ 10,933,851.00	**	see HECO-1510, 1511, 1512, 1513, Attch 14
3						cc		900	$ (1,292,925.00)	**	see HECO-1508
4	**Comp & Ben**								**$ 9,715,968.00**		
5	InfoTech	PEZ	ISD Chargeback	NPFZZZZZ	778	dd	PHE	451	$ 32,904.00		Attch 11, pg. 6
6	**InfoTech**								**$ 32,904.00**		
7	**Total 926010 Non Labor**								**$ 9,748,872.00**		**HECO-WP-101(G), pg. 978**

* See Attachments 2-6 for corresponding support documents
** Amounts greater than $50,000

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PAGE 1 OF 2

NonLabor Input Sheet - NonProject/NonProgram
2005

Prepared by _____
Date _____

		Rates tab card	Units tab card													2003
E	Lbr Class	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Recycled
			(enter Dollars or Vehicle Hours in "Units tab card")													
01		no escalation		50	659			50					200		959	b
20		no escalation						750			0				750	c
20		no escalation						0					0		0	
21		no escalation						125			0				125	d
21		no escalation						0					0		0	1,500
01		no escalation				250		225			150		0		625	a
01		no escalation			0			0			0		0	0	0	
52		no escalation						1,000							1,000	g
01		no escalation		50	362			363			0		50	0	825	h
5		no escalation			250			0			250			0	500	e
5		no escalation	175	175	1,306	175	380	1,716	380	479	226	175	175	416	5,778	e
1		no escalation	160	160	160	160	160	160	160	160	160	160	160	160	1,920	h
1		no escalation	166	166	649	166	166	649	166	166	649	166	166	649	3,924	h
1		no escalation	32 ~~.86~~	32 ~~.86~~	32 ~~.86~~	32 ~~.86~~	32 ~~.86~~	32 ~~.86~~	32 ~~.86~~	32 ~~.86~~	32 ~~.86~~	32 ~~.86~~	32 ~~.86~~	32 ~~.86~~	~~1,152~~ 384	f *
2		no escalation														
1		no escalation												~~0~~ 120	~~0~~ 120	
1		no escalation						1,396			1,396				2,792	j
1		no escalation	645	645	645	645	645	645	645	645	645	645	645	645	7,742	n
1		no escalation	126	126	126	126	126	126	126	126	126	126	126	126	1,612	n
1		no escalation			0			2,000			1,000			2,000	5,000	m
1		no escalation			119			119			119			117	474	n
		no escalation	0	0	0	24,000	0	0	0	0	0	0	0	0	24,000	n
		no escalation						750			0				750	r
		no escalation							0						0	
		no escalation											0		0	
		no escalation						125			0				125	s
		no escalation							0						0	1,500
		no escalation											0		0	
		no escalation			290			335			0			0	625	q
		no escalation						0	0					0	0	
		no escalation			0			0			0		0	0	0	
		no escalation	50	50	50	50	50	50	50	50	50	50	50	50	600	t

*Input by hours

or2005.xls

8/11/2003

NonLabor Input Sheet - NonProject/NonProgram
2005

Resp Area (RA) PFB

Prepared by _____
Date _____

Dimension tab card								Rates tab card	Units tab card													2003
Line Item	RA	Act	Loc	Ind	Proj	EE	Lbr Class	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Recycled
																				TOTAL	61,298	
EAP Renewal	PFB	780	PHE	NE	NPFZZZZZ	501		no escalation			7,700			7,700			7,700			7,700	30,800	
Professional Liability Ins	PFB	780	PHE	NE	NPFZZZZZ	501		no escalation							100						100	
IAM Answering Service	PFB	780	PHE	NE	NPFZZZZZ	501		no escalation	265	265	265	265	265	265	265	265	265	265	265	265	3,180	
IAM - Printing	PFB	780	PHE	NE	NPFZZZZZ	205		no escalation						250						250	500	
Medical Consulting	PFB	795	PHE	NE	NPFZZZZZ	501		no escalation	2,087	2,083	3,333	2,083	2,083	3,333	2,083	2,083	3,333	2,083	2,083	3,333	30,000	
Health Screenings	PFB	795	PHE	NE	NPFZZZZZ	501		no escalation			750			750			750			750	3,000	
																					0	
																					0	
	PFB																				0	

TOTAL 67,580

S:\ManagementAccounting\MacctBud\Forecast\Forms\Budget Input Form - NonLabor2005.xls

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ATTACHMENT 2
PAGE 2 OF 2

2005 FORECAST 8/6/2003

OTHER CONSULTING

COMPANY	LEGAL FEES (1) Allocation	LEGAL FEES (1) Amount	WYATT Retirement Plans (2a) Allocation	WYATT Retirement Plans (2a) Amount	WYATT Postretirement (2b) Allocation	WYATT Postretirement (2b) Amount	WYATT Special Projects (3) Allocation	WYATT Special Projects (3) Amount	TOTAL ICB	TOTAL DIRECT BILL	GRAND TOTAL
HECO	General	7,409	(HEI RET, HEI SERP, EXCESS, DIRECTORS, BENE CALC	16,942	HEI RET	10,068		14,000	48,419		48,419
HELCO	General	1,694	(HEI RET, EXCESS)	7,866	HEI RET	9,580		12,000		31,140	31,140
MECO	General	1,728	(HEI RET, EXCESS)	7,866	HEI RET	9,580		12,000		31,174	31,174
HEI	General	256	(HEI RET, HEI SERP, EXCESS, DIRECTORS)	16,497	HEI RET	9,776		14,000		40,529	40,529
PECS	General	0								0	0
HPC	General	0								0	0
PVT	General	0								0	0
		11,087		49,171		39,004		52,000	48,419	102,843	151,262

16,942 (pg 2, 3) + 10,068 + 14,000 (pg 2) = 41,010 consulting
+ 825 Misc meetings
1,920 Telephone
3,924 Parking
47,679 h

Notes:

1. *Legal Fees -- 2004 plus 3.5%* *$11,087*
2. *Wyatt -- 3% over estimated 2001 fees (see 2001 Wyatt Fees):*
   a. *Retirement Plans - SFAS 87 and PV Calc for HI Tax*
   b. *Postretirement - SFAS 106 and Proxy*
3. *Special Projects - services not listed on fee schedule*

COMPANY	All Companies as of 06/30/03 # OF EES	% OF EES
HECO	1299	40.12
HELCO	297	9.17
MECO	303	9.36
ASB	1289	39.81
HEI	45	1.39
PECS	4	0.12
HPC	1	0.03
PVT	0	0.00
TOTAL	3238	100.00

COMPANY	Utilities & HEI as of 06/30/03 # OF EES	% OF EES
HECO	1299	66.82
HELCO	297	15.28
MECO	303	15.59
ASB	0	0.00
HEI	45	2.31
PECS	0	0.00
HPC	0	0.00
PVT	0	
TOTAL	1944	100.00

COMPANY	Utilities as of 06/30/03 # OF EES	% OF EES
HECO	1299	68.40
HELCO	297	15.64
MECO	303	15.96
	1899	100.0

WYATT FEES	HE	HL	ME	HI	HP	PE		TOTAL
Retirement Plans								
HEI Ret Plan - SFAS 87	5,810	5,810	5,810	5,810				23,240
HEI SERP - SFAS 87	3,550			3,550				7,100
Excess/Excess Pay - SFAS 87	2,210	1,340	1,340	2,210				7,100
Directors - SFAS 87	1,440			2,210				3,650
HEI SERP - Limits and Factors	870			870				1,740
Excess/Excess Pay - Limits and Factors	135	135	135	135				540
HEI SERP - Listings	105			105				210
Excess/Excess Pay - Listings	130	130	130	130				
Directors - Listings	100			100				
Benefit Calculations (205-595/ calc)	1,190							1,190
QDRO's (155-515/calc)								
Total 2003	15,540	7,415	7,415	15,120				45,490
Total 2004 (3% Increase over 2003)	**16,006**	**7,637**	**7,637**	**15,574**				46,854
Total 2005 (3% Increase over 2004)	**16,486**	**7,866**	**7,866**	**16,041**				48,259
Postretirement and Proxy								
SFAS 106 : 2004 Cost	3,570	3,335	3,335	2,520	1,640	0		14,400
SFAS 106/132: 12/31/2003 Disclosure	2,360	2,215	2,215	1,775				8,565
Funding: 2003 Projections	1,185	1,185	1,185	775				4,330
SFAS106: 2005 Projections	1,600	1,520	1,520	1,070				5,710
Group/Health Actuary Svcs	775	775	775	775				3,100
Proxy				2,300				2,300
Total 2003	9,490	9,030	9,030	9,215				36,765
Total 2004 (3% Increase over 2003)	**9,775**	**9,301**	**9,301**	**9,491**				37,868
Total 2005 (3% Increase over 2004)	**10,068**	**9,580**	**9,580**	**9,776**				39,004

WYATT FEES	HE	HL	ME	HI	HP	PE		TOTAL
Benefit Statements								
HEI SERP - Benefit Statement Projections	430			430				860
Total 2003	430	0	0	430				860
Total 2004 (3% Increase over 2003)	**443**	**0**	**0**	**443**				886
Total 2005 (3% Increase over 2004)	**456**	**0**	**0**	**456**				912
Flexible Spending Accts								
DC Non-Discrimination Testing	2,785	1,650	1,650	1,340	0	0		7,425
Total 2003	2,785	1,650	1,650	1,340	0	0		7,425
Total 2004 (3% Increase over 2003)	**2,869**	**1,700**	**1,700**	**1,380**	**0**	**0**		**7,649**
Total 2005 (3% Increase over 2004)	**2,955**	**1,751**	**1,751**	**1,421**	**0**	**0**		**7,878**
HEIRS								
401(k)/415 End of Year Testing								13,440
401(k)/415 Mid Year Testing (if needed)								12,605
Discrimination Testing								1,285
Total 2003								27,330
Total 2004 (3% Increase over 2003)								**28,150**
Total 2005 (3% Increase over 2004)								**28,995**

)05 FORECAST 8/6/2003
.EIRS

COMPANY	ALLOCATION (1)	WYATT FEES	WYATT QDROs (2)	FIDELITY (3)	MAIL/PRINTING (4)	LEGAL FEES (5)	TOTAL ICB	TOTAL DIRECT BILL	GRAND TOTAL
HECO	45.49%	13,226 +	3,000 +	16,160 = 32,386	0	18,244 – K	50,630		50,630
HELCO	9.13%	2,647	500	3,243	0	3,652	6,895	3,147	10,042
MECO	9.23%	2,676	500	3,279	0	3,692	6,971	3,176	10,147
ASB	33.69%	9,768		11,968	0	13,476	13,476	21,736	35,212
HEI	1.97%	571		9,020	0	788	9,808	571	10,379
PECS	0.12%	35		43	0	48	91	35	126
HPC	0.25%	72		89	0	100	189	72	261
PVT	0.12%	35		43	0	48	91	35	126
	100.00%	28,995	4,000	43,845	0	40,000	88,151	28,772	116,923

32,386 401K fees/consulting
+ 9,289 Prepare System maintenance, pg 2
2,792 Pre-Ret workshops
44,467

Notes:

1. *Allocation is based on number of participants in the plan.*
2. *Wyatt -- 3% increase over 2004*
   401(k)/415 Year End Testing
   401(k)/415 Mid Year Testing (if needed)
   Discrimination Testing

   QDRO's -- $500/review or calculation:

HECO	6
HELCO	1
MECO	1
HTB	1
YB	1
	10

3. *Fidelity --* *participant recordkeeping fees (total fee of $5 paid by part* — 0
   -- *trustee fees (mutual fund trustee fee replaced by HEI Common Stock Trustee Fee capped @ $35,000)* — 35,000
   -- *minimum required distribution (no charge for Plan Sponsor Webstation)* — 525
   — 35,525

   HEI only:
   ESOP dividend check ($80 per qtr) — 320
   Dividend Pass-Through ($2,000 per qtr) — 8,000
   — 8,320

4. *Mail/printing -- Freight, Postage and Bulk Mail charged to clearing account*
5. *Legal fees -- Annual = $39,600 (2002)*

COMPANY	HEIRS - 401(k) AS OF 06/30/2003 NO OF PART *	% OF PART
HECO	1474	45.49%
HELCO	296	9.13%
MECO	299	9.23%
ASB	1092	33.69%
HEI (incl MPC)	64	1.97%
PECS	4	0.12%
HPC	8	0.25%
PVT	4	0.12%
	3241	100.00%

* Myra's Fidelity invoice

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HEI PARTICIPANT COUNTS

Company	# active & retired participants (per Doug Lum's wksht dated 1/1/2002)	%	% Excluding ASB
HEI	67	1.37	1.91
HECO	2,502	50.98	71.22
HELCO	470	9.58	13.38
MECO	474	9.66	13.49
ASB	1,395	28.42	
	4,908	100.01	100.00
HEI Ret Plan	3,513	71.58	
ASB Ret Plan	1,395	28.42	
	4,908	100.00	

# active participants (per Phyllis Okada's wksht)	%
48	1.50
1,304	40.74
293	9.15
303	9.47
1,253	39.14
3,201	100.00

HR EDGE PENSIONS ON-GOING FEES		
Service Center Support/ User Support and Application Maintenance		
(allocated based on # active & retired participants in plan)		
HEI Ret Plan		**11,974.56**
HEI	**71.58**	*8,571.39*
HECO	1.91	163.71
HELCO	71.22	6,104.54
MECO	13.38	1,146.85
	13.49	1,156.28
		8,571.38
ASB Ret Plan	**28.42**	3,403.17
		29,117.32

Administrative Services - Batch Processing			
(allocated to plans based on # of files processed)			
HEI Ret Plan	4 files		**6,760.00**
HEI		28.57	*1,931.33*
HECO		1.91	36.89
HELCO		71.22	1,375.49
MECO		13.38	258.41
		13.49	260.54
			1,931.33
ASB Ret Plan	10 files	71.43	4,828.67
			10,622.66

PREPARE ON-GOING FEES		
Service Center Charges/User Support and Application Maintenance		
(allocated based on # active participants in company)		
HEI Company		**1,867.84**
HECO Company	1.50	28.02
HELCO Company	40.74	760.96
MECO Company	9.15	170.91
	9.47	176.88

Estimated for Monthly Fees for Forecast:	Annual
$1,900.00	**$22,800.00**
28.50	342.00
774.06	9,288.72
173.85	2,086.20
179.93	2,159.16

TOTAL

HEI Ret Plan		
HEI	200.60	
HECO	7,480.03	
HELCO	1,405.26	
MECO	1,416.82	
	10,502.71	10,502.72
ASB Ret Plan	8,721.84	

HAWAIIAN ELECTRIC COMPANY, INC.
OPEB
1995 - Final

	EXPENSE			CONTRIBUTION					
	FAS 106 COST	REG ASSET AMORT	TOTAL	RABBI TRUST	IRREVOC TRUST	BU VEBA	NBU VEBA	401(h)	TOTAL
Jan	1,341,250	115,166	1,456,416	0	0	0	0	0	0
Feb	1,341,977	115,166	1,457,143	0	0	0	0	0	0
Mar	1,341,977	115,166	1,457,143	25,000	25,000	633,840	250,900	599,060	1,533,800
Apr	1,341,977	115,166	1,457,143	25,000	25,000	633,840	250,900	599,060	1,533,800
May	1,341,977	115,166	1,457,143	25,000	25,000	633,840	250,900	599,060	1,533,800
Jun	1,341,977	115,166	1,457,143	25,000	25,000	633,840	250,900	599,060	1,533,800
Jul	1,341,977	115,166	1,457,143	25,000	25,000	633,840	250,900	599,060	1,533,800
Aug	1,341,977	115,166	1,457,143	25,000	25,000	633,840	250,900	599,060	1,533,800
Sept	1,247,380	115,166	1,362,546	25,000	25,000	633,840	250,900	599,060	1,533,800
Oct	1,247,380	115,166	1,362,546	25,000	25,000	633,840	250,900	599,060	1,533,800
Nov	1,247,380	115,166	1,362,546	0	0	0	0	0	0
Dec	1,247,383	1,484,175	2,731,558	0	50,000	400,720	0	1,749,029	2,199,749
TOTAL	15,724,612	2,751,001	18,475,613	200,000	250,000	5,471,440	2,007,200	6,541,509	14,470,149

− 1,449,162 postretirement
executive life
1,301,839 → 1.

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ATTACHMENT 5
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INTEROFFICE CORRESPONDENCE

HEI **Hawaiian Electric Industries, Inc.**

December 19, 1995

TO: Julie Price
Nelson Watanabe
Miles Suzuki

FROM: Natalie Taniguchi

RE: **FINAL 1995 OPEB COST AND CONTRIBUTION FOR HECO**

The attached schedule shows the final 1995 net periodic nonpension postretirement benefit ("OPEB") cost and contribution amounts for HECO. Please accrue the revised monthly amounts indicated as "EXPENSE" and send to HEI via wire, the amount indicated as "CONTRIBUTION" on the last business day of the month.

Since the PUC issued its decision and order that did not provide cost recovery for postretirement executive life insurance benefits, the "REG ASSET AMORT" shown on the attached schedule includes the write off of $1,449,162 relating to the regulatory asset for this benefit. The "FAS 106 COST" shown on the attached schedule includes current year's cost for the executive life insurance benefit. Funding for this benefit will be suspended. Contributions made to date to the rabbi trust for this benefit will remain in the trust until used for executive life insurance benefits and other administrative expenses.

If you have any questions, please call me at extension 7948.

Attachment
cc: Julie Haraga
Lon Okada / Lorie Ishii
Mary Bergman
Joe Hayes
Lorie Nagata
Doug Lum - Watson/Wyatt

Business Travel Accidental Death & Dismemberment
Renewal Period: 3/7/2002 - 3/7/2005
Gerber Life Insurance Company

	Companies Covered	No. of Employees on 12/31/2001	% Share	Amount
1	HECO	1,329	66.820%	23,707.74
2	HELCO	295	14.830%	5,261.68
3	MECO	306	15.385%	5,458.60
4	HEI	47	2.363%	838.39
5	HPC	6	0.302%	107.15
6	PECS	3	0.150%	53.22
7	PVT	3	0.150%	53.22
	TOTAL	1,989		35,480.00

Total Invoice Cost: **$35,480.00**

Next renewal 2005

Invoice

King & Neel, Inc.
1164 Bishop Street, Suite 1710
Honolulu, HI 96813
(808)521-8311

Client	Hawaiian Electric Industries, Inc. 791
Date	03/26/2002
Client Service	(808)521-8311
Page	1 of 1

Hawaiian Electric Industries, Inc.
Hawaiian Electric Co., etal.
900 Richards Street
Honolulu, HI 96813

Payment Information	
Invoice Summary	35,480.00
Payment Amount	
Payment for: BTA2101	Invoice #7551

Thank you

Please detach and return with payment

Client: Hawaiian Electric Industries, Inc.

Invoice	Effective	Transaction	Description	Amount
7551	03/07/2002	Renew policy	Policy #BTA2101 03/07/2002-03/07/2005 A. C. Newman & Company Benefits - Renew policy	35,480.00
			Total	35,480.00

Thank you

King & Neel, Inc.
(808)521-8311

Date
03/26/2002

Hawaiian Electric Co., Inc.

CALCULATION OF LONG TERM CARE INSURANCE
For Merit Employees
2005

Base Coverage:		
Average premium per employee per month		$4.23
Projected No. of Merit Employees	x	688
		2,910
	x	12
Projected Annual premium		34,920

No. of Merit Employees	46%
No. of BU Employees	54%

Ho, Karen

From: O'Brien, Myra
Sent: Tuesday, June 08, 2004 3:38 PM
To: Minami-Shima, Merle; Tanigawa, Blaire S.; Fujimoto, Debbie
Cc: Wachi, Eileen; Nakaya, Rhea; Sunada, Lois; Garcia, Cheryl; Ho, Karen
Subject: RE: Long-term Care Insurance Update

As I mentioned in my previous e-mail, we selected UNUM Provident as our long-term provider.

BenefitsHawaii, LLC is the insurance broker that is working with UNUM. To meet a tight deadline, HEI paid the deposit. All companies should repay their respective amounts to HEI. Attach is the amounts. I will fax you a copy of the original invoice to serve as your documentation. This e-mail can serve as backup for the breakdown. I will fax the invoice to Merle and Blaire.

UNUM Provident - Binder Check ...

-----Original Message-----
From: O'Brien, Myra
Sent: Monday, June 07, 2004 10:26 AM
To: Minami-Shima, Merle; Tanigawa, Blaire S.; Fujimoto, Debbie
Cc: Wachi, Eileen; Nakaya, Rhea; Sunada, Lois; Garcia, Cheryl; Ho, Karen
Subject: Long-term Care Insurance Update

LONG-TERM CARE INSURANCE UPDATE

We have selected UNUM Provident as our long-term care provider. The contract effective date is 7/1/2004 and HEI has paid an advance deposit that was required with the application. Once each companies' portion have been determined, companies will be pay back HEI. The monthly invoice will be paid at the beginning of the month. Please set up your subproject charge number similar to LTD.

Employee UNUM meetings will be in early Sept. With the first deductions for the optional supplemental coverage in November with a target effective date of 12/1/2004. UNUM will calculate the after-tax deduction amounts for these participants.

Phyllis and I will be working with UNUM on the billing and payroll. We will update you as things progress.

Myra O'Brien
HECO Compensation & Benefits Division
543-4674

BenefitsHawaii, LLC
Invoice No. 14

UNUM Provident
Purpose: Provide UNUM Provident with a binder check submitted with initial application for Long-Term Care Insurance

Company	No. of Employees	Premium Amount	Average per employee
MECO	86	$363.30	$4.22
HELCO	78	$340.70	$4.37
HEI	43	$201.20	$4.68
HECO	599	$2,532.00	$4.23
Total	806	$3,437.20	$4.26
Deposit Binder Check		$3,500.00	
Difference		($62.80) Credit for HEI	

Information provided by Raymond O. Chun, Account Executive, BenefitsHAWAII, LLC
Via e-mail on 6/7/2004

LTD CLAIM PAYMENTS
JANUARY 2004

Company		Name	Amount
HECO	1/30/2004	Agunat, N.	$663.76
HECO	1/30/2004	Chee, C.	$747.10
HECO	10/1/2003	Chun, D.	-$200.00
HECO	10/27/2003	Chun, D.	-$200.00
HECO	11/18/2003	Chun, D.	-$200.00
HECO	12/19/2003	Chun, D.	-$200.00
HECO	1/30/2004	Dano-Aiona, B.	$1,774.62
HECO	1/5/2004	Guieb, A.	$2,442.33
HECO	11/18/2003	Hilton, C.	-$200.00
HECO	12/15/2003	Hilton, C.	-$200.00
HECO	1/28/2004	Holt, L.	$78.69
HECO	1/5/2004	Labrador, E.	$833.00
HECO	1/30/2004	Palting, S.	$650.00
HECO	1/2/2004	Taylor-Garcia, D.	$1,015.59
HECO	1/5/2004	Yoshida, K.	$196.00
		TOTAL	$7,201.09

0-C

LTD
Jan-Apr. '04

C

7,201.09 +
31,611.47 +
8,531.75 +
520.32 +
353.72 +
577.72 +
382.01 +
2,590.99 +
1,267.00 +
470.73 +
299.18 +
53,805.98 G+

0-C

C

53,806. +
4. =
13,45[illegible]
13,45[illegible]
12. =
161,[illegible] — P

0.00

LTD CLAIM PAYMENTS
February - March 2004

Company	Date	Name	Amount
HECO	2/27/2004	Agunat, N	$662.76

LTD Claim Payments
APRIL 2004

Company	Date	Name	Amount
HECO	4/30/2004	Agunat, N.	$663.76
HECO	4/29/2004	Andaya, M.	$1,224.03
HECO	4/30/2004	Chee, C.	$747.10
HECO	3/22/2004	Chun, D.	-$200.00
HECO	4/21/2004	Chun, D.	-$200.00
HECO	4/27/2004	Dano-Aiona, B.	$1,281.25
HECO	4/5/2004	Guieb, A.	$2,442.33
HECO	4/20/2004	Hilton, C.	-$200.00
HECO	4/28/2004	Holt, L.	$78.69
HECO	4/2/2004	Labrador, E.	$833.00
HECO	4/27/2004	Palting, S.	$650.00
HECO	4/30/2004	Taylor-Garcia, D.	$1,015.59
HECO	4/2/2004	Yoshida, K.	$196.00
		TOTAL	$8,531.75

LTD TAX PAYMENTS
JANUARY 2004

Company		Name	Amount	Federal	State
HECO	1/30/2004	Agunat, N.	$663.76		
HECO	1/30/2004	Chee, C.	$747.10	$11.33	$21.57
HECO	10/1/2003	Chun, D.	-$200.00		
HECO	10/27/2003	Chun, D.	-$200.00		
HECO	11/18/2003	Chun, D.	-$200.00		
HECO	12/19/2003	Chun, D.	-$200.00		
HECO	1/30/2004	Dano-Aiona, B.	$1,774.62	$104.06	$86.92
HECO	1/5/2004	Guieb, A.	$2,442.33	$270.51	$154.44
HECO	11/18/2003	Hilton, C.	-$200.00		
HECO	12/15/2003	Hilton, C.	-$200.00		
HECO	1/28/2004	Holt, L.	$78.69		
HECO		Iwamoto, M.		$65.76	$51.50
HECO	1/5/2004	Labrador, E.	$833.00		
HECO	1/30/2004	Palting, S.	$650.00		
HECO	1/2/2004	Taylor-Garcia, D.	$1,015.59	$68.66	$39.29
HECO	1/5/2004	Yoshida, K.	$196.00		
		TOTAL	$7,201.09	$520.32	$353.72

LTD Claim Tax Payments
FEBRUARY 2004

Company	Date	Name	Amount	Federal	State
HECO	2/27/2004	Chee, C.	$747.10	$11.33	$21.57
HECO	2/4/2004	Dano-Aiona, B.	$2,442.33	$104.06	$86.92
HECO	3/3/2004	Guieb, A.	$2,442.33	$270.51	$154.44
HECO	3/31/2004	Iwamoto, M.	$10,543.06	$65.76	$51.50
HECO	2/5/2004	Taylor-Garcia, D.	$766.44	$126.06	$67.58
		TOTAL	$16,941.26	$577.72	$382.01

LTD CLAIM TAX PAYMENTS
March 2004

Company		Name	Amount	Federal	State
HECO	2/27/2004	Agunat, N.	$663.76		
HECO	3/31/2004	Agunat, N.	$663.76		
HECO	2/4/2004	Andaya, M.	$1,150.65		
HECO	3/3/2004	Andaya, M.	$1,224.03		
HECO	3/29/2004	Andaya, M.	$1,224.03		
HECO	2/27/2004	Chee, C.	$747.10	$11.33	$21.57
HECO	3/31/2004	Chee, C.	$747.10		
HECO	2/20/2004	Chun, D.	-$200.00		
HECO	2/4/2004	Dano-Aiona, B.	$2,442.33		
HECO	2/27/2004	Dano-Aiona, B.	$1,774.62	$104.06	$86.92
HECO	3/31/2004	Dano-Aiona, B.	$1,774.62		
HECO	3/3/2004	Guieb, A.	$2,442.33	$270.51	$154.44
HECO	2/13/2004	Hilton, C.	-$200.00		
HECO	3/4/2004	Holt, L.	$78.69		
HECO	3/29/2004	Holt, L.	$78.69		
HECO	3/31/2004	Iwamoto, M.	$10,543.06	$2,088.74	$943.66
HECO	2/9/2004	Labrador, E.	$833.00		
HECO	3/8/2004	Labrador, E.	$833.00		
HECO	2/27/2004	Palting, S.	$650.00		
HECO	3/31/2004	Palting, S.	$650.00		
HECO	2/5/2004	Taylor-Garcia, D.	$766.44		
HECO	2/12/2004	Taylor-Garcia, D.	$301.08		
HECO	3/4/2004	Taylor-Garcia, D.	$1,015.59	$116.35	$60.41
HECO	3/29/2004	Taylor-Garcia, D.	$1,015.59		
HECO	2/4/2004	Yoshida, K.	$196.00		
HECO	3/4/2004	Yoshida, K.	$196.00		
		TOTAL	**$31,611.47**	**$2,590.99**	**$1,267.00**

LTD Claims Tax Payments
APRIL 2004

Company	Date	Name	Amount	Federal	State
HECO	4/30/2004	Agunat, N.	$663.76		
HECO	4/29/2004	Andaya, M.	$1,224.03		
HECO	4/30/2004	Chee, C.	$747.10	$11.33	$21.57
HECO	3/22/2004	Chun, D.	-$200.00		
HECO	4/21/2004	Chun, D.	-$200.00		
HECO	4/27/2004	Dano-Aiona, B.	$1,281.25	$45.09	$49.58
HECO	4/5/2004	Guieb, A.	$2,442.33		
HECO	4/20/2004	Hilton, C.	-$200.00		
HECO	4/28/2004	Holt, L.	$78.69		
HECO	4/22/2004	Iwamoto, M.	$0.00	$297.96	$167.62
HECO	4/2/2004	Labrador, E.	$833.00		
HECO	4/27/2004	Palting, S.	$650.00		
HECO	4/30/2004	Taylor-Garcia, D.	$1,015.59	$116.35	$60.41
HECO	4/2/2004	Yoshida, K.	$196.00		
		TOTAL	**$8,531.75**	**$470.73**	**$299.18**

Ho, Karen

From: Agbayani, Nina
Sent: Monday, August 11, 2003 2:14 PM
To: Ho, Karen
Subject: RE: PO: P47396 Shred-It Services

$50/mo.

Thanks Karen,

I have a correction to my original email. Dana will be handling the budget for Shred-It until she goes out on maternity in October and assuming the same responsibilities when she returns. I am in charge of more administrative affairs, as far as, monitoring the usage, if necessary, research services with other vendors, and advising when more money may be needed in the account to cover invoices.

Nina

-----Original Message-----
From: Ho, Karen
Sent: Monday, August 11, 2003 1:22 PM
To: Agbayani, Nina
Subject: RE: PO: P47396 Shred-It Services

$900 x 50% = 450 = 37.50 per mo
use 50.00 per mo. per increased usage

Hi Nina,

Looks like volume increases at year end.

Thanks,
Karen

PFD 965

-----Original Message-----
From: Agbayani, Nina
Sent: Wednesday, August 06, 2003 10:05 AM
To: Ho, Karen
Subject: FW: PO: P47396 Shred-It Services

Hi Karen,

Effective today, I'll be managing the Shred-It account. Please take a moment to review the emails below. The amount of C&B's portion of the shred-it budget has been increased $100 (the other $100, increase to WSD's shred-it budget). Depending on our (WSD & C&B) usage, it may increase a few more hundred dollars by the end of this year.

To better monitor our usage and cost, I wanted to find out if C&B anticipates any unusual shredding of documents. (i.e., year end cleaning, file purging, etc.). It would help if you could also provide the approximate dates these may occur. From there, I will determine the approximate usage between WSD and

Kevin Imai
Hawaiian Electric Company, Inc.
(808-543-4644)

-----Original Message-----
From: Imai, Kevin
Sent: Monday, August 04, 2003 9:33 AM
To: Hirashima, Lori; Martins, Dana
Cc: Masutani, Lisa; Chiogioji, Faye
Subject: RE: PO: P47396 Shred-It Services

Thank you.

Kevin Imai
Hawaiian Electric Company, Inc.
(808-543-4644)

-----Original Message-----
From: Hirashima, Lori
Sent: Monday, August 04, 2003 9:19 AM
To: Imai, Kevin; Martins, Dana
Cc: Masutani, Lisa; Chiogioji, Faye
Subject: RE: PO: P47396 Shred-It Services

Ok, done.

-----Original Message-----
From: Imai, Kevin
Sent: Monday, August 04, 2003 9:16 AM
To: Martins, Dana; Hirashima, Lori
Cc: Masutani, Lisa; Chiogioji, Faye
Subject: RE: PO: P47396 Shred-It Services

Hi Lori, please increase the original amount ($700) to $900.

Thanks...

Please note the change to my email address: kevin.imai@heco.com

Kevin Imai
Hawaiian Electric Company, Inc.
(808-543-4644)

-----Original Message-----
From: Martins, Dana
Sent: Monday, August 04, 2003 7:48 AM
To: Masutani, Lisa
Cc: Imai, Kevin
Subject: RE: PO: P47396 Shred-It Services

Kevin, This increase 1st requires an approval from Lisa to increase original $ amount from $700 to $900 for Shred-it Services. You will not find it in her que until a note is sent to Lori requesting this increase. Please send a note or i'll have Faye send a note to Lorie increaing the $ amount. Txs...Dana

-----Original Message-----
From: Masutani, Lisa
Sent: Friday, August 01, 2003 6:09 PM
To: Martins, Dana
Cc: Imai, Kevin
Subject: RE: PO: P47396 Shred-It Services

APPRENTICESHIP PROGRAM
2005 BUDGET

INSTRUCTOR FEES	Cost/Hr	Hours	Annual Cost	Anticipated
Math Review (L & M)	$30	40	$1,200	1st & 3rd qtr
Basic Math (L & M)	$30	168	$5,040	2nd & 4th qtr
Basic Electricity (K & L))	$30	168	$5,040	1st & 3rd qtr
Review Session			$0	
ICS Test Proctoring (J & K)	$10	138	$1,380	1st & 3rd qtr
Pole Climbing (M & N)	$30/$35	120/60	$5,700	2nd & 4th qtr
		Sub-Total	$18,360	

GRADUATION			Annual Cost	
Banquet				
Materials				
		Sub-Total	$0	

BOOKS/ICS	Cost/Set	Sets	Annual Cost	
(K) 6 Hire 1/04	$725	6	$4,350	2nd qtr
(L) 6 Hire 7/04	$725	6	$4,350	4th qtr
		Sub-Total	$8,700	

JAC Lunch Meeting	$300	4th qtr	
	TOTAL	**$27,360**	

Math Review is 20 hrs x $30/hr
Basic Math is 84 hrs x $30/hr
Basic Electricity is 84 hrs x $30/hr
Review Session is 6 hrs x $30/hr
Test Proctoring is 3 hrs x $10/hr x 23 tests
Pole Climbing is 30 hrs x $35/hr x 1 instructor &
30hrs x $30/hr x 2 instructors

APPRENTICE COUNT IS BASED ON:
* CURRENT APPRENTICES
* DEPARTMENT FORECAST OF SR. HELPERS to be INDENTURED AS APPRENTICES

Hawaiian Electric Company, Inc.
Information Technology & Services Department
ITS Costing System Allocated Costs - PEZ Entries

HECO's IT costs are allocated to functional area code blocks via the IT Costing System. The allocation entries are coded with the Responsibility Area (RA) code PEZ in HECO's financial system. The following is a general description of the PEZ budgeting methodology. Workpapers A-1 through A-7 show the detail allocation amounts for 2005.

Costs to be Cleared
IT Non-Project and non-capital Project costs represent the base of costs to be allocated. These costs are coded with Indicator NC (Non-billable clearing) and are therefore said to be subject to "Clearing". For 2005, the Costs to be Cleared were estimated to be $12,865,283, as shown on workpaper A-1. Details of these costs are shown on workpapers B and C.

Costs Cleared to
IT Costs are cleared to the following categories:
1) HELCO IT Costing System Direct Charges (2005 Estimate - $226,338)
2) MECO IT Costing System Direct Charges (2005 Estimate - $177,768)
3) Non-ITS Project Charges - Expense Element 451 transactions (2005 Estimate - $709,008)
4) Intercompany Billings (2005 Estimate - $265,335)
5) EFMS Program Charges (2005 Estimate - $799,992)
6) Ebusiness Program Charges (2005 Estimate - $758,292)
7) Other Functional Area Charges ($9,928,550)

Basis for Clearing
Amounts which are cleared to the first 4 items above (HELCO/MECO IT Direct Charges, Non-ITS Project Charges, Intercompany Billings) are directly identified. Workpapers D, E, and F show the basis for the amounts included in the 2005 budget.

Amounts which are cleared for items 5 (EFMS Program) and 6 (Ebusiness Program) are estimated by the Program Managers of these IT-Managed programs. Costs are cleared to HECO functional area code blocks benefiting from the services provided by these programs. EFMS and Ebusiness Program costs are shown on workpaper C. Proration percentages used to allocate these costs were identified by Program Managers in prior years and are shown on workpaper G-1.

The amount of item 7 (Other Functional Area Charges) represent the residual of "Costs to be Cleared" reduced by the first 6 items of "Costs Cleared to". These costs are prorated to functional area code blocks based on actual 2003 PEZ proration amounts shown on workpaper G.

PEZ Workpaper Index
A - PEZ Allocation Model
B - Non-Project "NC" Charges
C - Project "NC" Charges
D - HELCO and MECO IT Costing System Direct Charges
E - Non-ITS Project - Expense Element 451 Charges
F - Intercompany Billable Estimates
G - 2003 PEZ Actuals

Prepared by Blane Murakami, ITS Project Manager

PEZ ALLOCATION MODEL

Hawaiian Electric Company, Inc.									
Information Technology & Services Department									
PEZ Actuals Jan- Dec 2003									
	RA	Act	Loc	Ind	Project	EE	Monthly 05	Total 2005	
COSTS TO BE CLEARED:									
(Total NC charges)									
	NC per Non-Project							9,093,607	
	Non-Project on-cost							2,149,763	
	NC per EEMS Project							[illegible]	

Hawaiian Electric Company, Inc.
Information Technology & Services Department
PEZ Actuals Jan- Dec 2003

	RA	Act	Loc	Ind	Project	EE		Monthly 05	Total 2005
	PEZ	455	OAH	NC	NPEZZZZZ			3,928	47,136.00
	PEZ	455	OAH	NE	NPEZZZZZ			399	4,788.00
	PEZ	456	OAH	NE	NPEZZZZZ			6,794	81,528.00
	PEZ	600	OAH	NE	NPWZZZZZ			14,944	179,328.00
	PEZ	907	OAH	NC	NPBZZZZZ			1,993	23,916.00
	PEZ	926	PHE	NE	NPEZZZZZ			1,108	13,296.00
	PEZ	931	PHE	NE	NPEZZZZZ			2,038	24,456.00
Total EFMS								66,667	799,992.00
				NE	41%		NE		331,944.00
				NC	59%		NC		468,048.00
				Total	100%				799,992.00
Less: EBusiness Allocations									
	PEZ	110	PHE	NE	NPNEZZZZ			6565	78,780.00
	PEZ	600	OAH	NE	NPNEZZZZ			442	5,304.00
	PEZ	611	OAH	NE	NPNEZZZZ			13401	160,812.00
	PEZ	713	PHE	NE	NPNEZZZZ			5688	68,256.00
	PEZ	730	PHE	NE	NPNEZZZZ			0	-
	PEZ	750	PHE	NE	NPNEZZZZ			23255	279,060.00
	PEZ	950	PHE	NE	NPNEZZZZ			13840	166,080.00
Total EBusiness								63,192	758,292.00
Total NC less Direct Charge, Intercompan								**827,379**	**9,928,550**
	PEZ	100	PHE	NE	NPSZZZZZ	451		6,105	73,260
		100 Total							
	PEZ	102	PHE	NE	NPSZZZZZ	451		1,243	14,916
		102 Total							
	PEZ	110	PHE	NE	NPSZZZZZ	451		13,004	156,048
	PEZ	110	PHE	NE	NPEZZZZZ	451			
		110 Total							
	PEZ	112	PHE	NE	NPSZZZZZ	451		6,764	81,168
		112 Total							
	PEZ	122	PHE	NE	**NPIZZZZZ**	451		4,905	58,860
		122 Total							
	PEZ	201	WST	NE	NPYZZZZZ	451		8,626	103,512
		201 Total							
	PEZ	210	WST	NC	NPYZZZZZ	451		-	-
		210 Total							
	PEZ	211	WST	NC	NPYZZZZZ	451		14,881	178,572
	PEZ	211	WST	NC	NPEZZZZZ	451			
		211 Total							
	PEZ	212	KST	NE	NPAVP2ZZ	451		676	8,112
		212 Total							
	PEZ	220	WST	NE	**NPIZZZZZ**	451		1,708	20,496
		220 Total							
	PEZ	240	WST	NE	**NPIZZZZZ**	451		38,749	464,988
	PEZ	240	WST	NE	**NPYZZZZZ**	451			
		240 Total							

Hawaiian Electric Company, Inc.
Information Technology & Services Department
PEZ Actuals Jan- Dec 2003

RA	Act	Loc	Ind	Project	EE	Monthly 05	Total 2005
PEZ	242	KST	NE	**NPIZZZZZ**	451	6,904	82,848
PEZ	242	WST	NE	**NPIZZZZZ**	451		
PEZ	242	HST	NE	**NPIZZZZZ**	451		
	242 Total						
PEZ	245	KST	NE	NPAVP2ZZ	451	1,075	12,900
	245 Total						
PEZ	246	KST	NE	NPAVP2ZZ	451	898	10,776
	246 Total						
PEZ	256	WST	NE	**NPIZZZZZ**	451	34,054	408,648
PEZ	256	KST	NE	**NPIZZZZZ**	451		
PEZ	256	HST	NE	**NPIZZZZZ**	451		
	256 Total						
PEZ	258	KST	NE	NPAVP2ZZ	451	1,364	16,368
	258 Total						
PEZ	261	KST	NE	NPAVP2ZZ	451	809	9,708
	261 Total						
PEZ	307	OAH	NC	**NPBZZZZZ**	451	46,700	560,400
PEZ	307	OAH	NC	**NPYZZZZZ**	451		-
PEZ	307	OAH	NE	NPAVP2ZZ	451		
	307 Total						
PEZ	320	OAH	NE	NPAVP2ZZ	451	2,007	24,084
	320 Total						
PEZ	325	OAH	NC	**NPRZZZZZ**	451	4,634	55,608
	325 Total						
PEZ	326	OAH	NE	**NPRZZZZZ**	451	10,766	129,192
	326 Total						
PEZ	331	OAH	NE	NPAVP2ZZ	451	233	2,796
	331 Total						
PEZ	333	OAH	NC	**NPRZZZZZ**	451	11,468	137,616
PEZ	333	OAH	NE	NPAVP2ZZ	451		
	333 Total						
PEZ	343	OAH	NE	NPAVP2ZZ	451	322	3,864
	343 Total						
PEZ	349	OAH	NE	NPAVP2ZZ	451	144	1,728
	349 Total						
PEZ	375	OAH	NC	**NPRZZZZZ**	451	14,920	179,040
	375 Total						
PEZ	377	OAH	NE	NPRZZZZZ	451	659	7,908
	377 Total						
PEZ	408	OAH	NC	**NPBZZZZZ**	451	38,681	464,172
PEZ	408	OAH	NC	NPEZZZZZ	451		
	408 Total						
PEZ	420	OAH	NE	NPAVP2ZZ	451	6,674	80,088
	420 Total						
PEZ	455	OAH	NE	**NPDZZZZZ**	451	54,300	651,600
PEZ	455	OAH	NC	**NPDZZZZZ**	451	24,536	294,432
	455 Total						
PEZ	456	OAH	NC	**NPRZZZZZ**	451	9,915	118,980
PEZ	456	OAH	NE	**NPRZZZZZ**	451	5,753	69,036
	456 Total						
PEZ	461	OAH	NE	NPAVP2ZZ	451	355	4,260

Hawaiian Electric Company, Inc.
Information Technology & Services Department
PEZ Actuals Jan- Dec 2003

RA	Act	Loc	Ind	Project	EE	Monthly 05	Total 2005
	461 Total						
PEZ	462	OAH	NE	NPAVP2ZZ	451	310	3,720
	462 Total						
PEZ	463	OAH	NE	NPAVP2ZZ	451	344	4,128
	463 Total						
PEZ	465	OAH	NE	NPWZZZZZ	451	1,412	16,944
	465 Total						
PEZ	474	OAH	NE	NPAVP2ZZ	451	554	6,648
	474 Total						
PEZ	477	OAH	NE	NPAVP2ZZ	451	543	6,516
	477 Total						
PEZ	486	OAH	NE	NPAVP2ZZ	451	177	2,124
	486 Total						
PEZ	600	OAH	NC	NPWZZZZZ	451	32,902	394,824
PEZ	600	OAH	NE	**NPWZZZZZ**	451	16,606	199,272
PEZ	600	OAH	NE	NPCZZZZZ	451		
PEZ	600	OAH	NE	NPCZZZZZ	452		
	600 Total						
PEZ	603	OAH	NE	NPWZZZZZ	451	5,693	68,316
	603 Total						
PEZ	610	OAH	NE	**NPCZZZZZ**	451	3,493	41,916
	610 Total						
PEZ	611	OAH	NE	**NPCZZZZZ**	451	8,994	107,928
	611 Total						
PEZ	612	OAH	NE	**NPAZZZZZ**	451	456	5,472
	612 Total						
PEZ	614	OAH	NE	**NPCZZZZZ**	451	757	9,084
	614 Total						
PEZ	616	OAH	NE	**NPCZZZZZ**	451	5,819	69,828
	616 Total						
PEZ	700	PHE	NE	NPAVP7ZZ	451	10,352	124,224
PEZ	700	PHE	NE	NPAVP3ZZ	451		
PEZ	700	PHE	NE	NPAPRESI	451		
PEZ	700	PHE	NE	NPASVP9Z	451		
	700 Total						
PEZ	701	PHE	NC	NPKZZZZZ	451		
	701	OAH	NC	**NPRZZZZZ**	451	5,106	61,272
PEZ	701	PHE	NE	NPKZZZZZ	451	2,937	35,244
	701 Total						
PEZ	710	PHE	NE	NPSZZZZZ	451	2,869	34,428
	710 Total						
PEZ	712	PHE	ND	NPYZZZZZ	451	865	10,380
PEZ	712	PHE	ND	NPSZZZZZ	451		
	712 Total						
PEZ	713	PHE	NE	NPEZZZZZ	451	11,341	136,092
	713 Total						
PEZ	714	PHE	NE	P0000021	451	-	-

Hawaiian Electric Company, Inc.
Information Technology & Services Department
PEZ Actuals Jan- Dec 2003

RA	Act	Loc	Ind	Project	EE	Monthly 05	Total 2005
PEZ	714	PHE	NE	NPEZZZZZ	451		
	714 Total						
PEZ	720	PHE	NS	**NPCZZZZZ**	451	60,493	725,916
PEZ	720	PHE	NE	NPNEZZZZ	451		
	720 Total						
PEZ	722	PHE	NE	**NPFZZZZZ**	451	1,667	20,004
	722 Total						
PEZ	730	PPO	NE	NPEZZZZZ	451	367	4,404
	730 Total						
PEZ	736	PHE	NE	NPSZZZZZ	451	2,910	34,920
PEZ	736	PHE	NE	P0000035	451		
	736 Total						
PEZ	738	PHE	NE	**NPNPZZZZ**	451	3,648	43,776
	738 Total						
PEZ	750	PHE	NE	NPOCZZZZ	451	11,685	140,220

Hawaiian Electric Company, Inc.
Information Technology & Services Department
PEZ Actuals Jan- Dec 2003

RA	Act	Loc	Ind	Project	EE	Monthly 05	Total 2005
PEZ	818	PHE	NE	**NPAVP1ZZ**	451		
PEZ	818	PHE	NE	NPAZZZZZ	451		
	818 Total						
PEZ	825	PHE	NE	NPKZZZZZ	451	1,452	17,424
	825 Total						
PEZ	826	PHE	NE	NPKZZZZZ	451	4,289	51,468
PEZ	826	PHE	NE	NPAVP4ZZ	451		
	826 Total						
PEZ	827	PHE	NE	NPKZZZZZ	451	2,846	34,152
	827 Total						
PEZ	842	PHE	NE	**NPVZZZZZ**	451	16,574	198,888
PEZ	842	PHE	NE	NPAVP2ZZ	451		
	842 Total						
PEZ	843	PHE	NE	NPAVP2ZZ	451	16,353	196,236
PEZ	843	PHE	NE	NPEZZZZZ	451		
PEZ	843	PHE	NI	P0000340	451		
PEZ	843	PHE	NE	NPAZZZZZ	451		
	843 Total						
PEZ	850	PHE	NE	NPAVP2ZZ	451	4,484	53,808

Hawaiian Electric Company, Inc.
Information Technology & Services Department
PEZ Actuals Jan- Dec 2003

RA	Act	Loc	Ind	Project	EE		Monthly 05	Total 2005
PEZ	950	PHE	NE	**NPHZZZZZ**	451		8,268	99,216
PEZ	950	PHE	NE	**NPKZZZZZ**	451			
	950 Total							
PEZ	951	PHE	NE	NPKZZZZZ	451		2,825	33,900
	951 Total							
PEZ	953	PHE	NE	NPFZZZZZ	451		3,520	42,240
	953 Total							
PEZ	960	PHE	NE	NPNCZZZZ	451		6,244	74,928
	960 Total							
PEZ	965	PHE	NE	NPEZZZZZ	451		1,636	19,632
	965 Total							
PEZ	966	PHE	NE	NPEZZZZZ	451		2,896	34,752
	966 Total							
PEZ	967	PHE	NE	NPEZZZZZ	451		3,375	40,500
	967 Total							
	Grand Total						827,378	9,928,536
						NE	599,043	7,249,788
						NC/N	228,335	2,678,748
								9,928,536
Check total to pillar								11,752,155.00

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SSF - CA/IR
Safety, Security Facilities

PHS - Security Division

Dept	RA	Resp Area	Acct Blk	Acct Blk Descr	NARUC	Exp Class	Proj	Act	Loc	EE	FY05	a	b	c	d	e	f	g
PHS - SECURITY DIVISION																		
SSF	PHS	Security	B38	A & G Operation	926	Non-Labor	NPHZZZZZ	780	PHE	501	45,288.00			Bus Pass Program Benefit is to help ease the traffic congestion and limited parking at Ward facility	NA	NA	NA	NA
					926	NON LABOR COSTS					45,288.00							

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2005 FORECAST 8/6/2003
CONSULTING
Expense Element 501/502

501	ACTIVITY NUMBER	Location	502	779 HEIRS - 401(k)	779 Pension Admin System	776 OTHER CONSULTING	Tesseract Benefit System	OUTSIDE SPENDING ACCT ADM	778 FLEX TOTAL	GRAND TOTAL
32,386 ✓	HECO	PHE	18,244 ✓	50,630	9,289	501- 41,010 ✓ 502- 7409 ✓ 48,419	52,608 ✓	22,434 ✓	75,042 ✓	183,380
3,243 ✓	HELCO	HEL	3,652 ✓	6,895	0	0	12,031 ✓	see pg 2 0	12,031	18,926
3,279 ✓	MECO	MAU	3,692 ✓	6,971	0	0	12,276 ✓	0	12,276	19,247
—	ASB	ASB	13,476 ✓	13,476		0	0	0	0	13,476
9,063 ✓	HEI	HEI	836 ✓	~~9,906~~ 9899	0	0	1,824 ✓	0	1,824	11,632
49	PECS	PEC	48 ✓	91	—	0	166 ✓	0	166	257
89 ✓	HPC	HPC	100 ✓	189		0	39 ✓	0	39	228
—	PVT	PVT	—	~~91~~		0	0	0	0	91
	Total ICB			88,151	9,289	48,419	78,944	22,434	101,378	247,237
	HELCO			3,147	2,086	31,140	0	1,751 *	1,751	38,124
	MECO			3,176	2,159	31,174	0	1,751 *	1,751	38,260
	ASB			21,736	8,924	0	0	0	0	30,660
	HEI			571	342	40,529	0	2,954	2,954	44,396
	PECS			35		0	0	0	0	35
	HPC			72		0	0	0	0	72
	PVT			35		0	0	0	0	35
	Total Direct Bill			28,772	13,511	102,843	0	6,456	6,456	151,582
	GRAND TOTAL			116,923	22,800	151,262	78,944	28,890	107,834	398,819

total 99

* Need to include Administrative Fees paid to Benefit Services of Hawaii

ICB05_08.05.2003.xls(CONSULTING RECAP
8/6/2003

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2005 FORECAST 8/6/2003

FLEX ADMINISTRATION

COMPANY	ALLOCATION	TESSERACT [1]	TOTAL ICB	TOTAL DIRECT BILL	GRAND TOTAL
HECO	ALL	52,608	52,608		52,608
HELCO	ALL	12,031	12,031		12,031
MECO	ALL	12,276	12,276		12,276
HEI	ALL	1,824	1,824		1,824
PECS	ALL	166	166		166
HPC	ALL	39	39		39
PVT	ALL	0	0		0
		78,944	78,944	0	78,944

Notes:

1. *Tesseract – per agreement: annual fees shall not increase by no more than 7%*
   *2004 Fees ** 73,779
   ** Includes use tax @ 4%*

FSA OUTSIDE ADMINISTRATION

COMPANY	WYATT Annual Fee [1] Allocation	WYATT Annual Fee [1] Amount	Benefit Services of HI Per Participant [2] Allocation	Benefit Services of HI Per Participant [2] Amount	TOTAL ICB	TOTAL DIRECT BILL	GRAND TOTAL
HECO	per Wyatt fee schedule	2,955	FSA	19,479	22,434		22,434
HELCO	per Wyatt fee schedule	1,751	FSA	0 *		1,751	1,751
MECO	per Wyatt fee schedule	1,751	FSA	0 *		1,751	1,751
HEI	per Wyatt fee schedule	1,421	FSA	1,533		2,954	2,954
PECS	per Wyatt fee schedule	0	FSA	0		0	0
HPC	per Wyatt fee schedule	0	FSA	0		0	0
PVT		0	FSA	0		0	0
		7,878		21,012	22,434	6,456	28,890

Note:

1. *Annual Fee - 3% increase over 2003* 2.06
   - DC non-discrimination mid-year testing
   - Final Testing
   ** HELCO & MECO NEED TO ADD Admin fees paid to BSH*

COMPANY	as of 6/30/2003 # OF EES	% OF EES
HECO	1299	66.64
HELCO	297	15.24
MECO	303	15.55
HEI	45	2.31
PECS	4	0.21
HPC	1	0.05
PVT	0	0.00
TOTAL	1949	100.00

COMPANY	Benefit Service of HI Avg. Participants for Admin Fees**
HECO	394
HEI	31
PECS	0
HPC	0
PVT	0
TOTAL	425

** per Teri 07/24/03 FSA admin fee

COMPANY	FSA Participation as of 07/24/03 HC # of EEs	DC # of EEs	TOTAL	%
HECO	342	124	466	77.28
HELCO	36	9	45	7.46
MECO	47	7	54	8.96
HEI	30	8	38	6.30
PECS	0	0	0	0.00
HPC	0	0	0	0.00
PVT	0	0	0	0.00
TOTAL	455	148	603	100.00

2003-2005 FORECAST COMPARISON

	Based on Actual			2003			2004 [2]	2004 [3]	2005 [3]
	YTD Apr Actual $	May-Dec Projected $	2003 Projected $	Pillar 1405	Difference (Pillar vs Projected)	% Change	Pillar 1449	New Est. 1449	Estimate 1449
CREDITS	766,839	1,533,678	2,300,516	2,483,984	(183,468)	-7.4%	2,561,774	2,569,019	2,583,509
FC MEDICAL/VISION	(737,349)	(1,474,699)	(2,212,048)	(2,399,269)	187,221	-7.8%	(2,554,171)	(2,564,763)	(2,564,763)
FC DENTAL	(53,427)	(106,854)	(160,280)	(174,568)	14,288	-8.2%	(180,027)	(180,759)	(180,759)
FC EMPLOYEE GROUP LIFE	(174,148)	(348,297)	(522,445)	(706,397)	183,952	-26.0%	(749,041)	(793,568)	(817,579)
FC AD&D	(39,219)	(78,437)	(117,656)	(127,620)	9,964	-7.8%	(135,544)	(136,682)	(140,733)
FC DEPENDENT LIFE	(14,316)	(28,633)	(42,949)	(45,671)	2,722	-6.0%	(47,090)	(47,874)	(47,874)
TOTAL CREDITS & PRICES	(251,621)	(503,241)	(754,862)	(969,541)	214,679	-22.1%	(1,104,099)	(1,154,627)	(1,168,199)
HMSA	1,831,288	3,662,577	5,493,865	5,821,416	(327,551)	-5.6%	6,615,768	6,647,904	7,326,480
KAISER	343,301	686,602	1,029,903	1,136,400	(106,497)	-9.4%	1,260,840	1,263,156	1,359,528
VISION	64,248	128,495	192,743	208,884	(16,141)	-7.7%	215,436	217,044	217,044
DENTAL	319,495	638,989	958,484	1,035,828	(77,344)	-7.5%	1,094,940	1,104,684	1,132,284
EMPLOYEE LIFE	174,649	349,298	523,946	706,397	(182,451)	-25.8%	749,041	793,568	817,579
DEPENDENT LIFE	14,261	28,522	42,783	45,671	(2,888)	-6.3%	47,090	47,874	47,874
AD&D	39,151	78,302	117,453	127,620	(10,167)	-8.0%	135,544	136,682	140,733
LTD - premiums	113,123	226,245	339,368	366,883	(27,515)	-7.5%	389,668	393,660	405,430
LTD - claims under ASA	58,214	116,427	174,641	143,000	31,641	22.1%		143,000	143,000
LTD - additional fees under ASA			-	7,596	(7,596)	-100.0%		7,596	7,596
TOTAL PREMIUMS	2,957,729	5,915,458	8,873,187	9,599,695	(726,508)	-7.6%	10,508,327	10,755,168	11,597,548
TOTAL HEALTH CARE EXPENSES	2,706,108	5,412,216	8,118,325	8,630,154	(511,829)	-5.9%	9,404,228	9,600,541	10,429,349
Plus:									
Non-Flex	35,437 [1]	106,311	141,749	-	141,749		-	142,000	142,000
NET	2,741,545	5,518,528	8,260,074	8,630,154	(370,080)		9,404,228	9,742,541	10,571,349

[1] 3 mos actual; projected 9 mos
[2] 2003 premiums; 2002 enrollment
[3] 2003 premiums; 2003 enrollment

Planning Phase/2003-2005 Forecast Comparison.xls
05/20/2003

Non-Labor Amounts Greater Than $50,000
(See Attachment 1 **)

Item No.	FY 05	Basis
Account 926000		
1	$11,455,000	Amounts are determined by plan actuary, Watson Wyatt under SFAS 87, SFAS 106
2	$1,301,839	Commission's D&O 13659, filed November 29, 1994, in Docket Nos. 7243 and 7233 (consolidated)
3	$102,808	Total of miscellaneous fees such as travel accident, EAP, professional liability premiums, expenses related to family and condolence costs, deferred compensation agreement. None of these costs total more than $50,000 on an individual basis.
4	$103,236	Premiums for long term care, long term disability. Includes ($457,316) for executive life insurance which has been deleted from this rate case. On an individual basis long term disability premiums total $514,766 which was based on an estimate of covered compensation and applying premium rates (see HECO-1507).
5	$161,418	LTD self insured claims-based on existing claims (see Attch 8).
6	$186,666	HEI charges to HECO-based on HEI estimate (see HECO-1310)
Accouunt 926010		
7	$75,042	Total of miscellaneous fees such as benefits system maintenance fees, consulting fees and . third party spending account administration fees. $52,608 of benefit systems maintenance fees based on 2004 fees escalated by 7% (contract maximum).
8	$10,933,851	Total of premiums for health and life insurance-based on estimated premium rates, coverage elected, projected compensation and number of covered employees. $8,309,652 see HECO-1510 $1,182,744 see HECO-1511 and HECO-1502, Line 11, Col g $ 189,636 see HECO-1512 $1,110,350 see HECO-1513 and HECO-1502, Line 13, Col g $ 142,000 see Attach 14

CA-IR-1

General Information Requests

For each of the HECO witnesses who sponsor test period budgeted labor direct expense amounts, please provide the following information:

a. Identify each employee involved in preparation of budgeted staffing and associated labor direct expense amounts included in the witnesses' portion of the rate case test period budget.

b. Provide complete copies of all calculations, spreadsheet files, "pencil" workpapers, surveys and other analyses performed by each of the employees identified in response to part (a), documenting all work done to determine required staffing levels and overtime hours by Department, RA, Activity and NARUC Account.

c. Describe the actual force level that existed at the date the budget was prepared or otherwise served as a base for purposes of preparing the budget level.

d. For each budgeted employee position that is added to existing actual force levels (as the date the budget was prepared), **explain** the analyses undertaken to determine that each added position was necessary and should be filled in order to meet present or anticipated work requirements. Also, please explain how the anticipated work requirements were defined and determined.

e. Describe and, to the extent possible, quantify the backlog of work, unfinished projects, deferred maintenance and other labor requirements unfulfilled at present staffing levels, that will be satisfied by adding the employee positions identified in your response to part (d).

f. Provide complete copies of all studies, analyses, workpapers, projections, notes, correspondence, assumptions and other documents associated with your responses to parts (d) and (e) above.

HECO Response:

a. Please see Attachment 1, column a. for a listing of employees involved in the preparation of budgeted staffing and associated labor direct expense amounts.

b. Please refer to Attachment 1, column b. for support reference.

c. Please refer to Attachment 1, column c.

d. The majority of direct labor charges for departments included in Attachment 1 were charged to other NARUC accounts. For these departments, the support provided is mainly labor

input sheets. Since a majority of the direct labor charges for the Corporate Communications and Education & Consumer Affairs Departments are included in the NARUC accounts covered by this witness, explanations are provided for these two departments.

e. See supporting documentation.

f. See supporting documentation.

						CA-IR-1					
						a.	b.	c.			d. e. f.
Dept	RA	Resp Area	Activty	Proj or NonProj	FY05	Budget Preparer	Support (Attachment #)	Dept force level at date of budget (4/30/04)	2005 Budget (Average)	Additional positions	Explain analyses, describe backlog of work, provide studies, analyses, etc.
SSF	PHF	Facilities Planning	932	NonProject	6,510.40	Cheryl Fujiwara/Gail Smith	2	41	43	2	Positions in this department primarily charge A&G-Labor
SSF	PHF	Facilities Planning	932	NonProject	5,171.04	Cheryl Fujiwara/Gail Smith	2				
SSF	PHF	Facilities Planning	932	NonProject	8,394.58	Cheryl Fujiwara/Gail Smith	2				
SSF	PHF	Facilities Planning		Project	3,680.40						
Supp Svcs	PVL	Electric & Welding Svcs	931	NonProject	38,473.71	Mark Sterlacci	3	73	81	8	Positions in this department primarily charge clearing
Supp Svcs	PVL	Electric & Welding Svcs	932	NonProject	6,809.76	Mark Sterlacci	3				
Supp Svcs	PVL	Electric & Welding Svcs	932	NonProject	27,228.24	Mark Sterlacci	3				
Sys Op	PRX	Construction Mgt	932	NonProject	3,261.83	Colleen Nakamura	none available	93	109	16	Positions in this department primarily charge clearing
Total NARUC 932					**99,529.96**						
Corp Comm	PQC	Corp Communications	754	NonProject	9,051.70	Lynne Unemori	4	9	11	2	Retirement in 1/04; vacancy not filled till late 2004. Additional position needed due to increased Company public issues.
Supp Svcs	PVL	Electric & Welding Svcs	754	NonProject	7,310.32	Mark Sterlacci	3	73	81	8	Positions in this department primarily charge clearing
Total NARUC 9301					**16,362.02**						
Comp & Ben	PPW	Disablity Management	753	NonProject	94.88	Karen Ho	5	13	14	1	Positions in this department primarily charge A&G-Labor
Corp Comm	PQC	Corp Communications	753	NonProject	49,664.65	Lynne Unemori	4	9	11	2	Retirement in 1/04; vacancy not filled till late 2004. Additional position needed due to increased Company public issues.
Cust Svc	PCA	Admin-Cust Svc	731	NonProject	11,685.27	Victoria Marzano	6	113	134	21	Positions in this department primarily charge Customer Service O&M
Ed & Cons Aff	PQE	Educ & Cons Affairs	753	NonProject	144,606.84	Ka'iulani de Silva/Karen	7	6	7	1	Vacancy due to resignation of Administrator in March 2004
Environ	PJC	Chemistry	753	NonProject	598.80	Doug Rinehart	8	21	24	3	Positions in this department primarily charge A&G-Labor
Ind Rel	PPA	Admin-Ind Rel	753	NonProject	3,225.92		n/a	Disallowed expense			
Int Audit	PNA	Internal Audit	753	NonProject	2,388.60		n/a	Disallowed expense			
Plng & Eng	PYF	PP Electrical Engr	731	NonProject	3,612.00	Bert Morikuni/Mike Yuen	9	47	55	8	Positions in this dept primarily charge Power Supply clearing
Plng & Eng	PYG	PP Drafting	731	NonProject	1,899.60	Bert Morikuni/Mike Yuen	9				
President	P9P	President	731	NonProject	3,200.98	Carol Igarashi	10	3	3	0	n/a
SSF	PHA	Admin-Facilities	753	NonProject	420.80		n/a	Disallowed expense			
SVP-EnSol	P9S	Sr VP-Energy Solutions	731	NonProject	4,126.20	Valerie Takata	11	4	4	0	n/a
Tech	PNR	Technology	730	NonProject	63,044.30	Art Seki	12	2	2	0	n/a
Tech	PNR	Technology	731	NonProject	3,872.50	Art Seki					
WFSD	PFA	Admin-WFS & Dev	753	NonProject	1,484.00		n/a	Disallowed expense			
WFSD	PFI	Org Development	753	NonProject	1,127.68		n/a	Disallowed expense			
Total NARUC 9302					**295,053.02**						

HAWAIIAN ELECTRIC COMPANY
2005 TEST YEAR RATE CASE

SAFETY, SECURITY & FACILITIES DEPARTMENT NONPROJECT COST DATA

NARUC 932: ADMIN AND GENL MAINTENANCE-LABOR

12/28/2004

*VIEW: Labor Hour

*RA #	*Act #	*Loc #	*Ind #	*EE #	*Labor Class #	Line Item	FY05
PHF	930	PHE	NE	150	__FS	CAPITAL - PHE - Director	96
PHF	930	PHE	NE	150	__TC	CAPITAL - PHE - Fac Bldg Tech	48
PHF	930	PHE	NE	150	__TC	CAPITAL - WRD - Fac Bldg Tech	96
PHF	930	PHE	NE	150	__TC	CAPITAL - WRD - Project Mgr	60
PHF	930	WRD	NE	150	__BUOC	CAPITAL - WRD - Clerk	50
PHF	930	WRD	NE	150	__BUOC	CAPITAL - WRD - Draft Tech	96
PHF	930	WRD	NE	150	__FS	CAPITAL - WRD - Director	300
PHF	930						1,330
PHF	931	HEI	BE	150	__TC	HALE KEKELA - ICB - PE	48
PHF	931	KNG	NE	150	__BUOC	O&M Labor - KNG - Clerk	174
PHF	931	KNG	NE	150	__BUOC	O&M Labor - KNG - Draft Tech	325
PHF	931	KNG	NE	150	__FS	O&M Labor - KNG - Director	368
PHF	931	KNG	NE	150	__TC	O&M Labor - KNG - Fac Bldg Tech	96
PHF	931	MAH	NN	150	__TC	MAH - Labor Project Mgr	48
PHF	931	PHE	NE	150	__BUOC	O&M Labor - PHE - Clerk	20
PHF	931	PHE	NE	150	__BUOC	O&M Labor - PHE - Draft Tech	12
PHF	931	PHE	NE	150	__FS	O&M Labor - PHE - Director	96
PHF	931	PHE	NE	150	__TC	O&M Labor - PHE - Fac Bldg Tech	52
PHF	931	PHE	NE	150	__TC	O&M Labor - PHE - Project Mgr	72
PHF	931	WRD	NE	150	__BUOC	O&M Labor - WRD - Clerk	174
PHF	931	WRD	NE	150	__BUOC	O&M Labor - WRD - Draft Tech	324
PHF	931	WRD	NE	150	__FS	O&M Labor - WRD - Director	368
PHF	931	WRD	NE	150	__TC	O&M Labor - WRD - Project Mgr	20
PHF	931	WRD	NE	150	__TC	O&M Labor - WRD - Fac Bldg Tech	96
PHF	931						2,293
PHF	932	KNG	NE	150	__BUOC	REPAIRS - KNG - Labor Clerk	40
PHF	932	KNG	NE	150	__BUOC	REPAIRS - KNG - Labor Draft Tech	90
PHF	932	KNG	NE	150	__FS	REPAIRS - KNG - Labor Director	42
PHF	932	KNG	NE	150	__TC	REPAIRS - KNG - Fac Bldg Tech	60
PHF	932	PHE	NE	150	__BUOC	REPAIRS - PHE - Labor - Draft Tech	12
PHF	932	PHE	NE	150	__FS	REPAIRS - PHE - Labor - Director	12
PHF	932	PHE	NE	150	__TC	REPAIRS - PHE - Fac Bldg Tech	96
PHF	932	PHE	NE	150	__TC	REPAIRS - PHE - Project Mgr	48
PHF	932	WRD	NE	150	__BUOC	REPAIRS - WRD - Labor Clerk	40
PHF	932	WRD	NE	150	__BUOC	REPAIRS - WRD - Labor Draft Tech	60
PHF	932	WRD	NE	150	__FS	REPAIRS - WRD - Labor Director	42
PHF	932	WRD	NE	150	__TC	REPAIRS - WRD - Fac Bldg Tech	96
PHF	932	WRD	NE	150	__TC	REPAIRS - WRD - Project Mgr	48
PHF	932						686
PHF							7,325
							7,325

HAWAIIAN ELECTRIC COMPANY
2005 TEST YEAR RATE CASE

SUPPORT SERVICES DEPARTMENT

Labor Input Sheet - NonProject
2005

Resp Area (RA) PVL
Labor Class TCS ED (Supervisor)

Prepared by Al Sawada
Date 4/5/04

Dimension tab card								Rates tab card	Units tab card												
Line Item	RA	Act	Loc	Ind	Proj	EE	Labor Class	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Labor Supply:									*(enter **employee count** in **"Units tab card"**)*												
Labor Supply	PVL	*Supply	*Supply	*Supply	*Supply	*Supply	TCS ED (Super	Available Hours	1	1	1	1	1	1	1	1	1	1	1	1	12
Labor Demand:									*(enter **hours** in **"Units tab card"**)*												
									13	29	21	21	21	29	21	29	21	29	29	29	292
Holiday	PVL	098	PHE	ND		107	TCS ED (Super	TCS ED (Supervisor	0	8	8	0	8	8	8	8	8	8	16	16	96
Vacation	PVL	098	PHE	ND		107	TCS ED (Super	TCS ED (Supervisor	13	13	13	13	13	13	13	13	13	13	13	13	156
Other NPW	PVL	098	PHE	ND		107	TCS ED (Super	TCS ED (Supervisor)		8		8		8		8		8			40
Workers Comp	PVL	098	PHE	ND		108	TCS ED (Super	TCS ED (Supervisor)													0
Maintatin TSub structure	PVL	351	OAH	NE	NPVZZZZZ	150	TCS ED (Super	TCS ED (Supervisor	10	10	10	10	10	10	10	10	10	10	10	10	120
Maintatin DSub structure	PVL	485	OAH	NE	NPVZZZZZ	150	TCS ED (Super	TCS ED (Supervisor	10	10	10	10	10	10	10	10	10	10	10	10	120
Forecast / Budget	PVL	701	PHE	NE	NPVZZZZZ	150	TCS ED (Super	TCS ED (Supervisor	10	10	10	10	10	10	10	10	10	10	10	10	120
Employee Development	PVL	785	PHE	NE	NPVZZZZZ	150	TCS ED (Super	TCS ED (Supervisor	40	40	40	40	40	40	40	40	40	40	40	40	480
Training, classes, updates	PVL	789	PHE	NE	NPVZZZZZ	150	TCS ED (Super	TCS ED (Supervisor	20	20	20	20	20	20	20	20	20	20	20	20	240
Safety Training	PVL	797	PHE	NE	NPVZZZZZ	150	TCS ED (Super	TCS ED (Supervisor	1	1	1	1	1	1	1	1	1	1	1	1	12
Ward Contract (Facilities)	PVL	932	WRD	NE	NPVZZZZZ	150	TCS ED (Super	TCS ED (Supervisor	10	10	10	10	10	10	10	10	10	10	10	10	120
King Contract (Facilities)	PVL	932	KNG	NE	NPVZZZZZ	150	TCS ED (Super	TCS ED (Supervisor	10	10	10	10	10	10	10	10	10	10	10	10	120
Estimate Vehicles	PVL	942	PHE	NC	NPVZZZZZ	150	TCS ED (Super	TCS ED (Supervisor	44	20	52	36	44	36	36	44	44	28	36	36	456
	PVL					150	TCS ED (Super	TCS ED (Supervisor)													0
								Total NonProj/Pgm Demand	168	160	184	168	176	176	168	184	176	168	176	176	2,080
								Total Supply	168	160	184	168	176	176	168	184	176	168	176	176	2,080

Holidays - 2/21, 3/25, 5/30, 6/10, 7/4, 8/19, 9/5, 10/10, 11/11, 11/24, 12/23 (1/2), 12/26, 12/30 (1/2)	0	8	8	0	8	8	8	8	8	8	16	16	96
Available hours per employee	168	160	184	168	176	176	168	184	176	168	176	176	2080

NOTE: Total NonProject Demand hours may *NOT* equal Total Supply hours due to Project Demand hours (which are budgeted in the Project file)

Labor Input Sheet - NonProject
2005

Resp Area (RA) PVL
Labor Class BUTCED (Foremen)

Prepared by Al Sawada
Date 04/05/04

Dimension tab card								Rates tab card	Units tab card												
Line Item	RA	Act	Loc	Ind	Proj	EE	Labor Class	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Labor Supply:									*(enter employee count in "Units tab card")*												
Labor Supply	PVL	*Supply	*Supply	*Supply	*Supply	*Supply	BUTCED (Foren	Available Hours	2	2	2	2	2	2	2	2	2	2	2	2	24
Labor Demand:									*(enter hours in "Units tab card")*												
									40	56	56	40	56	56	56	56	56	56	72	72	672
Holiday	PVL	098	PHE	ND		107	BUTCED (Foren	BUTCED (Foremen)	0	16	16	0	16	16	16	16	16	16	32	32	192
Vacation	PVL	098	PHE	ND		107	BUTCED (Foren	BUTCED (Foremen)	33	33	33	33	33	33	33	33	33	33	33	33	396
Other NPW	PVL	098	PHE	ND		107	BUTCED (Foren	BUTCED (Foremen)	7	7	7	7	7	7	7	7	7	7	7	7	84
Workers Comp	PVL	098	PHE	ND		108	BUTCED (Foren	BUTCED (Foremen)													0
Maintain Sub Corrective	PVL	487	OAH	NE	NPVZZZZZ	150	BUTCED (Foren	BUTCED (Foremen)	40	40	40	40	40	40	40	40	40	40	40	40	480
Maintain OH Tsfs	PVL	481	OAH	NE	NPVZZZZZ	150	BUTCED (Foren	BUTCED (Foremen)	40	40	40	40	40	40	40	40	40	40	40	40	480
Training, classes, updates	PVL	789	PHE	NE	NPVZZZZZ	150	BUTCED (Foren	BUTCED (Foremen)	40	40	40	40	40	40	40	40	40	40	40	40	480
Ward Building Contract	PVL	932	WRD	NE	NPVZZZZZ	150	BUTCED (Foren	BUTCED (Foremen)	60	60	60	60	60	60	60	60	60	60	60	60	720
King Building Contract	PVL	932	KNG	NE	NPVZZZZZ	150	BUTCED (Foren	BUTCED (Foremen)	8	8	8	8	8	8	8	8	8	8	8	8	96
Vehicle repair / maint	PVL	942	PHE	NC	NPVZZZZZ	150	BUTCED (Foren	BUTCED (Foremen)	30	30	30	30	30	30	30	30	30	30	30	30	360
Safety training	PVL	797	PHE	NE	NPVZZZZZ	150	BUTCED (Foren	BUTCED (Foremen)	2	2	2	2	2	2	2	2	2	2	2	2	24
Manage,construct,reconfigur	PVL	930	PHE	NE	NPVZZZZZ	150	BUTCED (Foren	BUTCED (Foremen)	36	4	52	36	36	36	20	52	36	20	20	20	368
Maintain UG tsfs	PVL	484	OAH	NE	NPVZZZZZ	150	BUTCED (Foren	BUTCED (Foremen)	40	40	40	40	40	40	40	40	40	40	40	40	480
	PVL					150	BUTCED (Foren	BUTCED (Foremen)													0
								Total NonProj/Pgm Demand	336	320	368	336	352	352	336	368	352	336	352	352	4,160
								Total Supply	336	320	368	336	352	352	336	368	352	336	352	352	4,160
Holidays - 2/21, 3/25, 5/30, 6/10, 7/4, 8/19, 9/5, 10/10, 11/11, 11/24, 12/23 (1/2), 12/26, 12/30 (1/2)									0	8	8	0	8	8	8	8	8	8	16	16	96
Available hours per employee									168	160	184	168	176	176	168	184	176	168	176	176	2080

NOTE: Total NonProject Demand hours may *NOT* equal Total Supply hours due to Project Demand hours (which are budgeted in the Project file)

Labor Input Sheet - NonProject
2005

Resp Area (RA) PVL
Labor Class BUTCED (Sr. Elec)

Prepared by Al Sawada
Date 4/5/04

Dimension tab card								Rates tab card	Units tab card												
Line Item	RA	Act	Loc	Ind	Proj	EE	Labor Class	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Labor Supply:									*(enter employee count in "Units tab card")*												
Labor Supply	PVL	*Supply	*Supply	*Supply	*Supply	*Supply	BUTCED (Sr. E	Available Hours	3	3	3	3	3	3	3	3	3	3	3	3	36
Labor Demand:									*(enter hours in "Units tab card")*												
									50	74	74	50	74	74	74	74	74	74	98	98	888
Holiday	PVL	098	PHE	ND		107	BUTCED (Sr. E	BUTCED (Sr. Elec)	0	24	24	0	24	24	24	24	24	24	48	48	288
Vacation	PVL	098	PHE	ND		107	BUTCED (Sr. E	BUTCED (Sr. Elec)	40	40	40	40	40	40	40	40	40	40	40	40	480
Other NPW	PVL	098	PHE	ND		107	BUTCED (Sr. E	BUTCED (Sr. Elec)	10	10	10	10	10	10	10	10	10	10	10	10	120
Workers Comp	PVL	098	PHE	ND		108	BUTCED (Sr. E	BUTCED (Sr. Elec)													0
Junking tsfs	PVL	347	OAH	NE	NPVZZZZZ	150	BUTCED (Sr. E	BUTCED (Sr. Elec)	100	100	100	100	100	100	100	100	83	100	100	100	1,183
Service OH tsf	PVL	481	OAH	NE	NPVZZZZZ	150	BUTCED (Sr. E	BUTCED (Sr. Elec)	40	40	40	40	40	40	40	40	40	40	40	40	480
X-mas Deco (KING)	PVL	754	PHE	NE	NPVZZZZZ	150	BUTCED (Sr. E	BUTCED (Sr. Elec)	48	0	0	0	0	0	0	48	48	0	48	40	232
Training, classes, updates	PVL	789	PHE	NE	NPVZZZZZ	150	BUTCED (Sr. E	BUTCED (Sr. Elec)	6	6	6	6	6	6	6	6	6	6	6	6	72
King Electrical Contract	PVL	931	KNG	NE	NPVZZZZZ	150	BUTCED (Sr. E	BUTCED (Sr. Elec)	40	40	40	40	40	40	40	40	40	40	40	40	480
Ward Electrical Contract	PVL	931	WRD	NE	NPVZZZZZ	150	BUTCED (Sr. E	BUTCED (Sr. Elec)	112	112	184	160	160	160	49	28	21	107	60	68	1,221
Safety training	PVL	797	PHE	NE	NPVZZZZZ	150	BUTCED (Sr. E	BUTCED (Sr. Elec)	3	3	3	3	3	3	3	3	3	3	3	3	36
Dielectric test trucks	VL	942	PHE	NC	NPVZZZZZ	150	BUTCED (Sr. E	BUTCED (Sr. Elec)	0	0	0	0	0	0	0	15	15	15	15	15	75
Maintain TSub Preventive	PVL	348	OAH	NE	NPVZZZZZ	150	BUTCED (Sr. E	BUTCED (Sr. Elec)	24	24	24	24	24	24	24	24	24	24	24	24	288
Maintain DSub Preventive	PVL	488	OAH	NE	NPVZZZZZ	150	BUTCED (Sr. E	BUTCED (Sr. Elec)	24	24	24	24	24	24	24	24	24	24	24	24	288
P503, 504, 505, 825	PVL	930	PHE	NI		150	BUTCED (Sr. E	BUTCED (Sr. Elec)	24	24	24	24	24	24	104	104	104	24	24	24	528
P1680000, P1700000	PVL	850	PHE	NI		150	BUTCED (Sr. E	BUTCED (Sr. Elec)	14	14	14	14	14	14	14	14	14	14	14	14	168
P4851000, P4852000	PVL	318	OAH	NI		150	BUTCED (Sr. E	BUTCED (Sr. Elec)							7	13	13	14	13	13	73
Service UG tsf	PVL	484	OAH	NE	NPVZZZZZ	150	BUTCED (Sr. E	BUTCED (Sr. Elec)	40	40	40	40	40	40	40	40	40	40	40	40	480
							Total NonProj/Pgm Demand		525	501	573	525	549	549	525	573	549	525	549	549	6,492
							Total Supply		504	480	552	504	528	528	504	552	528	504	528	528	6,240
Holidays - 2/21, 3/25, 5/30, 6/10, 7/4, 8/19, 9/5, 10/10, 11/11, 11/24, 12/23 (1/2), 12/26, 12/30 (1/2)									0	8	8	0	8	8	8	8	8	8	16	16	96
Available hours per employee									168	160	184	168	176	176	168	184	176	168	176	176	2080

NOTE: Total NonProject Demand hours may *NOT* equal Total Supply hours due to Project Demand hours (which are budgeted in the Project file)

Labor Input Sheet - NonProject
2005

Resp Area (RA) PVL
Labor Class BUTCED (Welder)

Prepared by AL Sawada
Date 4/5/04

Dimension tab card								Rates tab card	Units tab card												
Line Item	RA	Act	Loc	Ind	Proj	EE	Labor Class	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Labor Supply:									*(enter **employee count** in **"Units tab card"**)*												
Labor Supply	PVL	*Supply	*Supply	*Supply	*Supply	*Supply	BUTCED (Weld	_ Available Hours	4	4	4	4	4	4	4	4	4	4	4	4	48
Labor Demand:									*(enter **hours** in **"Units tab card"**)*												
									50	82	82	50	82	82	82	82	82	82	114	114	984
Holiday	PVL	098	PHE	ND		107	BUTCED (Weld	BUTCED (Welder)	0	32	32	0	32	32	32	32	32	32	64	64	384
Vacation	PVL	098	PHE	ND		107	BUTCED (Weld	BUTCED (Welder)	37	37	37	37	37	37	37	37	37	37	37	37	444
Other NPW	PVL	098	PHE	ND		107	BUTCED (Weld	BUTCED (Welder)	13	13	13	13	13	13	13	13	13	13	13	13	156
Workers Comp	PVL	098	PHE	ND		108	BUTCED (Weld	BUTCED (Welder)													0
Maintain UG tsfs	PVL	484	OAH	NE	NPVZZZZZ	150	BUTCED (Weld	BUTCED (Welder)	40	40	40	40	40	40	40	40	40	40	40	40	480
Fab / Repair Warehs equip	PVL	492	OAH	NC	NPVZZZZZ	150	BUTCED (Weld	BUTCED (Welder)	100	100	100	100	100	100	100	100	80	80	100	100	1,160
Training, classes, updates	PVL	789	PHE	NE	NPVZZZZZ	150	BUTCED (Weld	BUTCED (Welder)	8	8	8	8	8	8	8	8	8	8	8	8	96
Ward Welding Contract	PVL	932	WRD	NE	NPVZZZZZ	150	BUTCED (Weld	BUTCED (Welder)	2	2	2	2	2	2	2	2	2	2	2	2	24
Vehicle repair / maint	PVL	942	PHE	NC	NPVZZZZZ	150	BUTCED (Weld	BUTCED (Welder)	161	91	187	154	155	155	129	200	208	206	156	136	1,938
Safety training	PVL	797	PHE	NE	NPVZZZZZ	150	BUTCED (Weld	BUTCED (Welder)	4	4	4	4	4	4	4	4	4	4	4	4	48
Substation Assistance Trans	PVL	350	OAH	NE	NPVZZZZZ	150	BUTCED (Weld	BUTCED (Welder)	150	150	150	150	150	150	150	150	150	150	150	150	1,800
P4851000, P4852000	VL	318	OAH	NI		150	BUTCED (Weld	BUTCED (Welder)	7	13	13	14	13	13	7	0	0	0	0	0	80
Substation Assistance Dist	PVL	487	OAH	NE	NPVZZZZZ	150	BUTCED (Weld	BUTCED (Welder)	150	150	150	150	150	150	150	150	130	100	130	150	1,710
	PVL					150	BUTCED (Weld	BUTCED (Welder)													0
	PVL					150	BUTCED (Weld	BUTCED (Welder)													0
						Total NonProj/Pgm Demand			672	640	736	672	704	704	672	736	704	672	704	704	8,320
						Total Supply			672	640	736	672	704	704	672	736	704	672	704	704	8,320
Holidays - 2/21, 3/25, 5/30, 6/10, 7/4, 8/19, 9/5, 10/10, 11/11, 11/24, 12/23 (1/2), 12/26, 12/30 (1/2)									0	8	8	0	8	8	8	8	8	8	16	16	96
Available hours per employee									168	160	184	168	176	176	168	184	176	168	176	176	2080

NOTE: Total NonProject Demand hours may *NOT* equal Total Supply hours due to Project Demand hours (which are budgeted in the Project file)

HAWAIIAN ELECTRIC COMPANY
2005 TEST YEAR RATE CASE

CORPORATE COMMUNICATIONS DEPARTMENT NONPROJECT COST DATA

NARUC 9301: INSTITUTN/GOODWILL ADVER EXP-LABOR

NARUC 9302: MISCELLANEOUS GENERAL EXPENSES-LABOR

Corp Comm												
LABOR HOURS FORECAST												
2005												
Acct Blk	Activity Number	Description	AV #1	AV #2	Comm Consul1	Comm Consul2	Comm Consul3	Comm Consul4	Comm Consul5	Comm Consul6	(Eng Lib) Comm Consul7	TOTAL TEACHER/ COACH
		Misc community activities (e.g., McGruff)	10		40	160	20	100	250	300		880
				0		0			0			0
9301	754	**Administer Institutional or Goodwill Advertising**					250					250
920	755	**Maintain Relations with Board of Directors**	8									8
920	756	**Maintain Relations with Investors**										
		Misc Investor Relations / Disclosure work										
	756	GAM										0
	756	Annual Meeting (billed to HEI)										0
	756	Annual Report (billed to HEI)										0
920	777	**Process Payroll**										0
920	785	**Plan for & Determine Employee Training & Develop needs (includes Perf Appraisals)**	8	8	8	8	8	8	8	8	8	72
920	789	**Attend Training**	16	16	16	16	16	16	16			112
920	807	**Manage & Provide Companywide Employee Communications - HECO**	558	728	353	504	478	416	478	444	0	3959
		Staff meetings - employee issues	78	78	78	78	78	78	78	78		624
		Misc employee communications	450	50	275	426	400	338	400	366		2705
		AV support -- ee comm (includes News Bytes)	30	600								630
				0								0

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ATTACHMENT 4
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Corp Comm				
LABOR HOURS FORECAST				
2005				
			FAC-SUP	BU-OC
Acct	Activity			
Blk	Number	Description		
		Misc community activities (e.g., McGruff)	20	50
9301	754	**Administer Institutional or Goodwill Advertising**		60
			Incl ATL TV ad project	
920	755	**Maintain Relations with Board of Directors**		
920	756	**Maintain Relations with Investors**		
		Misc Investor Relations / Disclosure work	60	
	756	GAM	120	
	756	Annual Meeting (billed to HEI)	30	
	756	Annual Report (billed to HEI)	55	
920	777	**Process Payroll**		60
920	785	**Plan for & Determine Employee Training &**		
		Develop needs (includes Perf Appraisals)	80	
920	789	**Attend Training**	16	16
920	807	**Manage & Provide Companywide Employee**		
		Communications - HECO	350	996
		Staff meetings - employee issues	100	78
		Misc employee communications	250	910
		AV support -- ee comm (includes News Bytes)		8

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2005

Corp Comm												
LABOR HOURS FORECAST												
2005												
Acct Blk	Activity Number	Description	AV #1	AV #2	Comm Consul1	Comm Consul2	Comm Consul3	Comm Consul4	Comm Consul5	Comm Consul6	(Eng Lib) Comm Consul7	TOTAL TEACHER/ COACH
910	751	**Administer Informational Advertising**	0	0	0	0	70	0	0		0	70
		Energy Efficiency advertising (incl rule 16 insert/emerg prep)				0	70					70
910	751	**Sun Power for Schools**	0	0	0		0		0			0
	751	Rule 16 insert (HELCO)										0
	751	Rule 16 insert (MECO)										0
920	752	**Maintain Relations w/ Media**			870	24	110	40	10	40		1094
					850	24	110	40	10	40		1074
					20							20
9302	753	**Maintain Relations w/ Community - HECO (O&M)**	10	50	70	168	470	106	351	300	0	1525
		Invention Convention			0	0	0					0
		Electron Marathon		0	30	8	150	6	6			200
		Arbor Day					300		85			385
		March of Dimes							0			0
		Display case							10			10
												0
		Misc Audiovisual support (Community related)	0	50								50

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2005

Corp Comm				
LABOR HOURS FORECAST				
2005				
			FAC-SUP	BU-OC
Acct	Activity			
Blk	Number	Description		
910	751	**Administer Informational**		
		Advertising	5	
		Energy Efficiency advertising (incl rule 16 insert/emerg prep)	5	
910	751	**Sun Power for Schools**	10	
	751	Rule 16 insert (HELCO)		
	751	Rule 16 insert (MECO)		
920	752	**Maintain Relations w/ Media**	100	
			100	
			0	
9302	753	**Maintain Relations w/ Community - HECO (O&M)**	35	65
		Invention Convention		
		Electron Marathon	15	5
		Arbor Day		
		March of Dimes	0	
		Display case		10
		Misc Audiovisual support (Community related)		

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HECO Response:

d. The actual force level that existed in the Corporate Communications Department at the time this budget was prepared was 9 (8 merit/1 BU). The reason for the higher staffing forecast is because staffing levels were abnormally low at the time the forecast was prepared. One employee had retired at the end of January 2004 and the hiring process for a replacement was ongoing at the time of forecast preparation (replacement was hired later in 2004). The second additional position was forecast to help address increasing communications workload due to increasing company public issues related to environment, new infrastructure projects, consumer information needs, greater SEC disclosure requirements and other issues. (The addition of this position would bring dept staffing levels back to what they previously were as of the end of 2000). This second position was later filled instead by hiring in the VP Government and Community Affairs area.

HAWAIIAN ELECTRIC COMPANY
2005 TEST YEAR RATE CASE

COMPENSATION & BENEFITS DEPARTMENT NONPROJECT COST DATA

NARUC 9302: MISCELLANEOUS GENERAL EXPENSES–LABOR

ger: 1b Resource Leveling Detail Code Blk(Mo) 3:21PM

	FY05	Jan 05	Feb 05	Mar 05	Apr 05	May 05	Jun 05	Jul 05	Aug 05	Sep 05	Oct 05	Nov 05	Dec 05
	0	0	0	0	0	0	0	0	0	0	0	0	0
	-258	-21	-22	-21	-22	-21	-22	-21	-22	-21	-22	-21	-22
	-384	-32	-32	-32	-32	-32	-32	-32	-32	-32	-32	-32	-32
	-2	-2	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	-1	-1	0	0	0	0	0	0	0	0	0	0	0
- ...	0	0	0	0	0	0	0	0	0	0	0	0	0
an...	0	0	0	0	0	0	0	0	0	0	0	0	0
	-15	-1	-1	-1	-2	-1	-1	-1	-2	-1	-1	-1	-2
	0	0	0	0	0	0	0	0	0	0	0	0	0
	-29	-2	-3	-2	-3	-2	-3	-2	-3	-2	-3	-2	-2
	0	0	0	0	0	0	0	0	0	0	0	0	0
	-36	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
	0	0	0	0	0	0	0	0	0	0	0	0	0
	-1,308	-109	-79	-159	-109	-109	-109	-109	-149	-139	-19	-109	-109
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	-277	-10	-51	-49	-10	0	-4	-8	-35	-32	-56	-12	-10
	2,080	168	160	184	168	176	176	168	184	176	168	176	176
	-96	0	-8	-8	0	-8	-8	-8	-8	-8	-8	-16	-16
80	-280	0 ~~-40~~	0	0	0	0 ~~-160~~	40 0	0	0	0	40 0	0	0
	-4	0	0	0	0	0	-4	0	0	0	0	0	0
	-18	0	-4	-3	-2	0	-1	-1	-1	-3	0	-2	-1
	-22	-2	-1	-1	-3	0	-2	-2	-2	-3	-2	-2	-2
40	-220	-20	-20	-20	-20	20 0	-20	-20	-20	-20	-20	-20	-20
/e...	0	0	0	0	0	0	0	0	0	0	0	0	0
	-10	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
00	-1,500	146 -106	-127	-150	-141	146 0	77 -135	-135	-151	-140	96 -130	-134	-135
	0	0	0	0	0	0	0	0	0	0	0	0	0
	-10	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
	0	0	0	0	0	0	0	0	0	0	0	0	0
s	2,080	168	160	184	168	176	176	168	184	176	168	176	176
	-96	0	-8	-8	0	-8	-8	-8	-8	-8	-8	-16	-16
	-64	0	0	0	0	0	0	0	0	0	-40	0	-24
	0	0	0	0	0	0	0	0	0	0	0	0	0
	-19	-1	-1	-2	-1	-4	-2	-1	-1	-2	-1	-1	-2
	-240	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20
	-3	-3	0	0	0	0	0	0	0	0	0	0	0
	-2	0	-1	0	0	-1	0	0	0	0	0	0	0
	-11	-1	0	-1	-1	0	0	0	0	0	-8	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0

HAWAIIAN ELECTRIC COMPANY
2005 TEST YEAR RATE CASE

CUSTOMER SERVICE DEPARTMENT
NONPROJECT COST DATA

NARUC 9302: MISCELLANEOUS GENERAL EXPENSES-LABOR

Labor Input Sheet - NonProject
2005

Resp Area (RA) PCA

Labor Class Oper Analyst _TC

Prepared by D. Yokoi

Date 07/26/03

Dimension tab card									Rates tab card	Units tab card												
Line Item		RA	Act	Loc	Ind	Proj	EE	Labor Class	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Labor Supply:										*(enter employee count in "Units tab card")*												
Labor Supply	NARUC	PCA	*Supply	*Supply	*Supply	*Supply	*Supply	Oper Analyst	_ Available Hours	1	1	1	1	1	1	1	1	1	1	1	1	12
Labor Demand:										*(enter hours in "Units tab card")*												
Holiday	184	PCA	098	PHE	ND		107	Oper Analyst	Oper Analyst	0	8	8	0	8	8	8	8	8	8	16	16	96
Vacation	184	PCA	098	PHE	ND		107	Oper Analyst	Oper Analyst	8	8	8	8	8	8	8	8	8	8			80
Other NPW		PCA	098	PHE	ND		107	Oper Analyst	Oper Analyst													0
Workers Comp		PCA	098	PHE	ND		108	Oper Analyst	Oper Analyst													0
Dev & Adm Bus Plans	903	PCA	700	PHE	NS	NPCZZZZZ	150	Oper Analyst	Oper Analyst	32	32	36	32	32	32	30	33	32	30	32	32	385
Impr Bus Processes	903	PCA	720	PHE	NS	NPCZZZZZ	150	Oper Analyst	Oper Analyst	32	28	33	32	32	32	30	33	30	30	32	32	376
Res New Tech	912	PCA	730	PHE	NS	NPCZZZZZ	150	Oper Analyst	Oper Analyst	32	28	33	32	32	32	30	33	30	30	32	32	376
Dev & Demo New Tech	9302	PCA	731	PHE	NS	NPCZZZZZ	150	Oper Analyst	Oper Analyst	32	28	33	32	32	32	30	34	34	30	32	32	381
Plan for & Det Empl Trng	903	PCA	785	PHE	NS	NPCZZZZZ	150	Oper Analyst	Oper Analyst	32	28	33	32	32	32	32	35	34	32	32	32	386
		PCA					150	Oper Analyst	Oper Analyst													0
		PCA					150	Oper Analyst	Oper Analyst													0
		PCA					150	Oper Analyst	Oper Analyst													0
		PCA					150	Oper Analyst	Oper Analyst													0
		PCA					150	Oper Analyst	Oper Analyst													0
								Total NonProj/Pgm Demand		168	160	184	168	176	176	168	184	176	168	176	176	2,080
								Total Supply		168	160	184	168	176	176	168	184	176	168	176	176	2,080
										-160	-144	-168	-160	-160	-160	-152	-168	-160	-152	-160	-160	-1,904
Holidays - 2/21, 3/25, 5/30, 6/10, 7/4, 8/19, 9/5, 10/10, 11/11, 11/24, 12/23 (1/2), 12/26, 12/30 (1/2)										0	8	8	0	8	8	8	8	8	8	16	16	96
Available hours per employee										168	160	184	168	176	176	168	184	176	168	176	176	2080

NOTE: Total NonProject Demand hours may *NOT* equal Total Supply hours due to Project Demand hours (which are budgeted in the Project file)

S:\ManagementAccounting\MacctBud\Forecast\Forms\2005 Lab Input Sheet Oper Anal NARUC.xls

HAWAIIAN ELECTRIC COMPANY
2005 TEST YEAR RATE CASE

EDUCATION & CONSUMER AFFAIRS DEPARTMENT
NONPROJECT COST DATA

NARUC 9302: MISCELLANEOUS GENERAL EXPENSES-LABOR

CA-IR-1

General Information Requests

For each of the HECO witnesses who sponsor test period budgeted labor direct expense amounts, please provide the following information:

a. Identify each employee involved in preparation of budgeted staffing and associated labor direct expense amounts included in the witnesses' portion of the rate case test period budget.

b. Provide complete copies of all calculations, spreadsheet files, "pencil" workpapers, surveys and other analyses performed by each of the employees identified in response to part (a), documenting all work done to determine required staffing levels and overtime hours by Department, RA, Activity and NARUC Account.

c. Describe the actual force level that existed at the date the budget was prepared or otherwise served as a base for purposes of preparing the budget level.

d. For each budgeted employee position that is added to existing actual force levels (as the date the budget was prepared), **explain** the analyses undertaken to determine that each added position was necessary and should be filled in order to meet present or anticipated work

by each employee for 2005. We then used the "Labor Input Sheet – Non Project 2005" (see attachment B) to compute labor hours for each employee by multiplying the available hours (less vacation and holidays) by the percentages computed from the labor reports.

c. We had six full-time employees when the 2005 budget was finalized in April 2004. We had five merit positions and one bargaining unit position. The merit positions consisted of one director, two administrators, and two coordinators. The bargaining unit position is our division clerk. In April 2004, our actual force level had one vacancy due to an administrator who resigned in March 2004.

d. Based on company and department goals as well as the calculations used in part (b) above, we need three administrator positions (rather than two administrators) to fulfill our division's program requirements.

e. The third administrator position administers our division's "HECO in Your Community" community fairs; residential customers' EMF (Electric and Magnetic Fields) survey program; the resource library which provides educational videos and materials for grade school to high school students, and the school presentations programs which coordinates speakers on topics ranging from electrical safety to careers in the electric utility industry. This position also provides support for the production of The Electric Kitchen (our television cooking program that educates viewers on energy efficiency and conservation); Electron Marathon (an educational program that teaches hundreds of students a year about an environmentally clean ground transportation fuel alternative and provides a context for learning teamwork and problem-solving); and answers customer calls on residential energy use. These programs could not be offered without this key position. The hours expended on these programs by this administrator position are quantified in the DARS report #1706.

f. All work papers are provided with part (b) above.

CA-IR-1 Attachment B

KdS

Labor Input Sheet - NonProject
2005

Resp Area (RA) PQE
Labor Class FS

Prepared by Karen Watanabe
Date 8/5/2003

Dimension tab card								Rates tab card	Units tab card															
Line Item	RA	Act	Loc	Ind	Proj	EE	Labor Class	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total			
Labor Supply :									*(enter employee count in "Units tab card")*															
Labor Supply	PQE	*Supply	*Supply	*Supply	*Supply	*Supply	FS	Available Hours	1	1	1	1	1	1	1	1	1	1	1	1	12			
Labor Demand :									*(enter hours in "Units tab card")*															
Holiday	PQE	098	PHE	ND		107	FS	FS	0	8	8	0	8	8	8	8	8	8	16	16	96			
Vacation	PQE	098	PHE	ND		107	FS	FS					40				40		20	20	120			
Other NPW	PQE	098	PHE	ND		107	FS	FS													0			
Workers Comp	PQE	098	PHE	ND		108	FS	FS													0			
Maintain Rel Comm	PQE	753				150	FS	FS	101	85	133	96	57	91	78	94	51	75	73	73	1,007	1002.37	83.5305	0.53775
Maintain Rel Cust	PQE	750				150	FS	FS	64	64	40	64	58	64	64	64	64	72	64	64	746	749.235	62.4362	0.40195
Respond to Cust. Inq.	PQE	600				150	FS	FS	0	0	0	0	0	0	0	0	0	0	0	0	0			
Attend Training	PQE	789				150	FS	FS					10					10			20	19.9448	1.66207	0.0107
Dev & Manage Forecasts	PQE	701				150	FS	FS				5		10	15	15	10				55	55.5472	4.62893	0.0298
Plan EE Training & Dev	PQE	785				150	FS	FS	3	3	3	3	3	3	3	3	3	3	3	3	36	36.9072	3.0756	0.0198
	PQE					150	FS	FS													0			
	PQE					150	FS	FS													0	1864		1.00
	PQE					150	FS	FS													0			
	PQE					150	FS	FS													0			
Total NonProj/Pgm Demand									168	160	184	168	176	176	168	184	176	168	176	176	2,080			
Total Supply									168	160	184	168	176	176	168	184	176	168	176	176	2,080	1,984	1,864	
									0	0	0	0	0	0	0	0	0	0	0	0				
Holidays - 2/21, 3/25, 5/30, 6/10, 7/4, 8/19, 9/5, 10/10, 11/11, 11/24, 12/23 (1/2), 12/26, 12/30 (1/2)									0	8	8	0	8	8	8	8	8	8	16	16	96			
Available hours per employee									168	160	184	168	176	176	168	184	176	168	176	176	2080			

NOTE: Total NonProject Demand hours may *NOT* equal Total Supply hours due to Project Demand hours (which are budgeted in the Project file)

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PAGE 4 OF 7

repared by Karen Watanabe
ate 8/5/2003

Sep	Oct	Nov	Dec	Total			
ab card")							
1	1	1	1	12			
rd")							
8	8	16	16	96			
			80	160			
				0			
				0			
0	0	0	0	80	81.168	6.764	0.0445
123	111	91	19	1,136	1140.36	95.0304	0.6252
0	0	0	0	0	0	0	0
	4			12	12.9504		0.0071
5	5	5	5	60	52.7136	4.3928	0.0289
16	16	16	8	176	175.834	14.6528	0.0964
24	24	48	48	360	360.97	30.0808	0.1979
				0			
				0	1824		1
				0			
176	168	176	176	2,080			
176 0	168 0	176 0	176 0	2,080	1,984	1,824	
8	8	16	16	96			
176	168	176	176	2080			

geted in the Project model)

CA-IR-1 Attachment D

Labor Input Sheet - NonProject/NonProgram
2005

Prepared by Karen Watanabe
Date 8/5/2003

tab card					Rates tab card	Units tab card												
	Ind	Proj	EE	Labor Class	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
						(enter employee count in "Units tab card")												
	"Supply"	"Supply"	"Supply"	TC	Available Hours	3	3	3	3	3	3	3	3	3	3	3	3	
						(enter hours in "Units tab card")												
	ND		107	TC	TC													
	ND		107	TC	TC	0	40	0	40	0	40	40	40	40	20	40	100	
	ND		107	TC	TC	0	0	0	0	0	0	0	0	0	0	0	0	
	ND		108	TC	TC	0	0	0	0	0	0	0	0	0	0	0	0	
						0	0	0	0	0	0	0	0	0	0	0	0	
			160	TC	TC	252	308	360	200	216	144	165	176	179	173	160	150	
			160	TC	TC	240	97	157	241	254	253	193	233	252	225	254	214	
			160	TC	TC	0	0	0	0	0	0	0	0	0	0	0	0	
			160	TC	TC	0	0	0	5	8	5	8	5	3	12	0	0	
			160	TC	TC	8	8	8	16	24	60	72	72	28	48	24	16	
			160	TC	TC	4	3	3	2	2	2	2	2	2	2	2	0	
			160	TC	TC													
			160	TC	TC													
			160	TC	TC													
			160	TC	TC													
					Total NonProj/Pgm Demand	504	480	552	504	528	528	504	552	528	504	528	528	6,240
					Total Supply	504	480	552	504	528	528	504	552	528	504	528	528	6,240
						0	0	0	0	0	0	0	0	0	0	0	0	0
5, 10/10, 11/11, 11/24, 12/23 (1/2), 12/28, 12/30 (1/2)						0	8	8	0	8	8	8	8	8	8	16	16	96
						168	160	184	168	176	176	168	184	176	168	176	176	2080

CA-IR-1 Attachment B

Coord Consolidated

Labor Input Sheet - NonProject/NonProgram
2005

Resp Area (RA) PQE
Labor Class I

Prepared by Karen Watanabe
Date 8/5/2003

Dimension tab card								Rates tab card	Units tab card												
Line Item	RA	Act	Loc	Ind	Proj	EE	Labor Class	Rates Link To	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Labor Supply:									*(enter employee count in "Units tab card")*												
Labor Supply	PQE	*Supply	*Supply	*Supply	*Supply	*Supply	I	Available Hours	2	2	2	2	2	2	2	2	2	2	2	2	24
Labor Demand:									*(enter hours in "Units tab card")*												
Holiday	PQE	098	PHE	ND		107	I	I	0	16	16	0	16	16	16	16	16	16	32	32	192
Vacation	PQE	098	PHE	ND		107	I	I	40	0	0	0	0	0	80	0	0	0	0	40	160
Other NPW	PQE	098	PHE	ND		107	I	I	0	0	0	0	0	0	0	0	0	0	0	0	0
Workers Comp	PQE	098	PHE	ND		106	I	I	0	0	0	0	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0	0	0	0	0	0	0	
Maintain Rel Comm	PQE	753				150	I	I	134	142	198	167	45	70	35	70	74	38	58	87	1,118
Maintain Rel Cust	PQE	750				150	I	I	159	158	150	166	282	258	203	275	255	272	259	190	2,627
Respond to Cust. Inq.	PQE	600				150	I	I	0	0	0	0	0	0	0	0	0	0	0	0	0
Attend Training	PQE	789				150	I	I	0	0	0	0	5	5	0	5	4	8	0	0	27
Dev & Manage Forecasts	PQE	701				150	I	I	0	0	0	0	0	0	0	0	0	0	0	0	0
Plan EE Training & Dev	PQE	785				150	I	I	3	4	4	3	4	3	2	2	3	2	3	3	36
	PQE					150	I	I													0
	PQE					150	I	I													0
	PQE					150	I	I													0
	PQE					150	I	I													0
								Total NonProj/Pgm Demand	336	320	368	336	352	352	336	368	352	336	352	352	4,160
								Total Supply	336	320	368	336	352	352	336	368	352	336	352	352	4,160
									0	0	0	0	0	0	0	0	0	0	0	0	0
Holidays - 2/21, 3/25, 5/30, 6/10, 7/4, 8/19, 9/5, 10/10, 11/11, 11/24, 12/23 (1/2), 12/26, 12/30 (1/2)									0	8	8	0	8	8	8	8	8	8	16	16	96
Available hours per employee									168	160	184	168	176	176	168	184	176	168	176	176	2080

NOTE: Total NonProj/Pgm Demand

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HECO T-16
ATTACHMENT 7
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HAWAIIAN ELECTRIC COMPANY
2005 TEST YEAR RATE CASE

ENVIRONMENTAL DEPARTMENT
NONPROJECT COST DATA

NARUC 9302: MISCELLANEOUS GENERAL EXPENSES-LABOR

Resource Leveling Report
Labor Hours

_RA	_LbrClass	_Proj	_Act	Project	Line item	FY05
PJC	J_CHEMS	*Supply	*Supply	Labor Supp	Labor Supp	12480
PJC	J_CHEMS	NPJZZZZZ	98	Environme	Holiday	-576
PJC	J_CHEMS	NPJZZZZZ	98	Environme	Vacation	-920
PJC	J_CHEMS	NPJZZZZZ	241	Environme	MGT M008	-24
PJC	J_CHEMS	NPJZZZZZ	241	Environme	HST FUEL	-120
PJC	J_CHEMS	NPJZZZZZ	241	Environme	KST FUEL	-470
PJC	J_CHEMS	NPJZZZZZ	241	Environme	MGL M008	-60
PJC	J_CHEMS	NPJZZZZZ	241	Environme	MGM M00	-300
PJC	J_CHEMS	NPJZZZZZ	241	Environme	MGK M008	-120
PJC	J_CHEMS	NPJZZZZZ	241	Environme	HGA H002	-300
PJC	J_CHEMS	NPJZZZZZ	241	Environme	WST FUEL	-470
PJC	J_CHEMS	NPJZZZZZ	241	Environme	Update Jul	-24
PJC	J_CHEMS	NPJZZZZZ	245	Environme	HST MAIN	-30
PJC	J_CHEMS	NPJZZZZZ	245	Environme	KST MAIN	-120
PJC	J_CHEMS	NPJZZZZZ	245	Environme	WST MAIN	-120
PJC	J_CHEMS	NPJZZZZZ	344	Environme	HECO TSF	-300
PJC	J_CHEMS	NPJZZZZZ	349	Environme	HDC H006	-300
PJC	J_CHEMS	NPJZZZZZ	349	Environme	MDE M004	-120
PJC	J_CHEMS	NPJZZZZZ	349	Environme	HECO SS	-335
PJC	J_CHEMS	NPJZZZZZ	701	Environme	DEV & MA	-60
PJC	J_CHEMS	NPJZZZZZ	720	Environme	ORG DEV	-24
PJC	J_CHEMS	NPJZZZZZ	745	Environme	RELATION	-20
PJC	J_CHEMS	NPJZZZZZ	749	Environme	RELATION	-20
PJC	J_CHEMS	NPJZZZZZ	750	Environme	RELATION	-60
PJC	J_CHEMS	NPJZZZZZ	753	Environme	COMMUNI	-20
PJC	J_CHEMS	NPJZZZZZ	777	Environme	PROCESS	-48
PJC	J_CHEMS	NPJZZZZZ	785	Environme	PERFORM	-20
PJC	J_CHEMS	NPJZZZZZ	789	Environme	ATTEND T	-142
PJC	J_CHEMS	NPJZZZZZ	797	Environme	ATTEND S	-144
PJC	J_CHEMS	NPJZZZZZ	842	Environme	ORDER M	-48
PJC	J_CHEMS	NPJZZZZZ	843	Environme	PROCESS	-12
PJC	J_CHEMS	NPJZZZZZ	876	Environme	HGA H002	-180
PJC	J_CHEMS	NPJZZZZZ	876	Environme	HST WAST	-360
PJC	J_CHEMS	NPJZZZZZ	876	Environme	KST WAST	-1173
PJC	J_CHEMS	NPJZZZZZ	876	Environme	MGM M00	-420
PJC	J_CHEMS	NPJZZZZZ	876	Environme	MGK M008	-180
PJC	J_CHEMS	NPJZZZZZ	876	Environme	MISCELLA	-1151
PJC	J_CHEMS	NPJZZZZZ	876	Environme	HGA H002	-180
PJC	J_CHEMS	NPJZZZZZ	876	Environme	HGA H002	-540
PJC	J_CHEMS	NPJZZZZZ	876	Environme	HGA H002	-120
PJC	J_CHEMS	NPJZZZZZ	876	Environme	WST WAS	-1173
PJC	J_CHEMS	NPJZZZZZ	876	Environme	NON-UTIL	-60
PJC	J_CHEMS	NPJZZZZZ	876	Environme	Update Jul	-300
PJC	J_CHEMS	NPJZZZZZ	877	Environme	MGT M008	-24
PJC	J_CHEMS	NPJZZZZZ	877	Environme	HST OIL-R	-60
PJC	J_CHEMS	NPJZZZZZ	877	Environme	KST OIL-R	-120
PJC	J_CHEMS	NPJZZZZZ	877	Environme	MGL M008	-24
PJC	J_CHEMS	NPJZZZZZ	877	Environme	MGM M00	-24
PJC	J_CHEMS	NPJZZZZZ	877	Environme	HGA H002	-24
PJC	J_CHEMS	NPJZZZZZ	877	Environme	WST OIL-F	-60
PJC	J_CHEMS	NPJZZZZZ	877	Environme	NON-UTIL	-24

_RA	_LbrClass	_Proj	_Act	Project	Line item	FY05
PJC	J_CHEMS	NPJZZZZZ	877	Environme	MDE M159	-360
PJC	J_CHEMS	NPJZZZZZ	878	Environme	HGA H003	-20
PJC	J_CHEMS	NPJZZZZZ	878	Environme	HST NON-	-24
PJC	J_CHEMS	NPJZZZZZ	878	Environme	KST NON-	-60
PJC	J_CHEMS	NPJZZZZZ	878	Environme	MGM M008	-180
PJC	J_CHEMS	NPJZZZZZ	878	Environme	MGK M008	-60
PJC	J_CHEMS	NPJZZZZZ	878	Environme	HGA H003	-60
PJC	J_CHEMS	NPJZZZZZ	878	Environme	HGA H003	-120
PJC	J_CHEMS	NPJZZZZZ	878	Environme	HGA H003	-24
PJC	J_CHEMS	P0000571	600	CIS Replac	Heco Train	0
PJC	J_CHEMST					48
PJC						48

HAWAIIAN ELECTRIC COMPANY
2005 TEST YEAR RATE CASE

PLANNING & ENGINEERING DEPARTMENT NONPROJECT COST DATA

NARUC 9302: MISCELLANEOUS GENERAL EXPENSES-LABOR

	2005		
	YF	YG	YM
PROJECTS from			
PLNENGR_Jan04 Pillar Update	14,012	5,258	10,428
Adjustments:			
HECO Unit Addition			0
P1870 Power Station Misc	0	0	0
RA corrections	0	0	0
Total Adjustments:	0	0	0
Projects, Total:	14,012	5,258	10,428
NON-PROJECTS (Act/Loc/Ind)			
Billables			
HELCO Misc PP Engineering Services (211/RST/BE)	**120**		**120**
HELCO IRP (712/HEL/BE)	0		0
HELCO GAM (211/SST/BI)	**200**		**200**
MECO Fire Protection Improv Project (211/RTF/BI)			
MECO Misc PP Engr Svcs-Maalaea (211/MST/BE)	**60**		**60**
MECO Misc PP Engr Svcs-Kahului (211/NST/BE)	**60**		**60**
MECO IRP (712/MAU/BE)	0		**80**
Non-Project Billables, Subtotal:	440	0	520
O&M			
O&M/PSS field support (259/WST/NE)	120	0	480
HECO fuel facility O&M support (269/WFS/NE)	60	0	480
Fuel additive program (730/PHE/NE)			
PSRO program (240/WST/NE)	120		240
SPS/Photovoltaic projects (731/PHE/NE)	120	60	
O&M, Subtotal:	420	60	1,200
Clearing			
CADDS/EFMS (211/WST/NC)	0		480
Update Dwgs (211/WST/NC)	120	480	480
RUL/GAM engineering assistance (210/WST/NC)	240	20	480
GAIM/Tech Master Plan (210/WST/NC)	120		
Boiler PDM program (240/WST/NC)			480
APPRISE support/training (720/PHE/NC)			
Training (789/PHE/NC)	480	160	640
Employee T&D planning/managing (785/PHE/NC)	104	8	128
Budget forecasting/managing (701/PHE/NC)	180		380
Admin, staff mtgs, misc studies, etc. (211/WST/NC)	1,150	100	2,100
Clearing, Subtotal:	2,394	768	5,168
Non-Project, Total:	**3,254**	**828**	**6,888**

HAWAIIAN ELECTRIC COMPANY
2005 TEST YEAR RATE CASE

PRESIDENT'S OFFICE DEPARTMENT
NONPROJECT COST DATA

NARUC 9302: MISCELLANEOUS GENERAL EXPENSES-LABOR

												0.00
												0
												0.00
												0
												0.00
												0
												0.00
	5	6	6	8	7	26	7	3	5	10	5	3	91
	4.25	5.00	5.75	7.75	7.00	25.50	7.25	2.75	3.75	9.50	4.25	2.75	85.50
	6	1	1	1	1	1	1	1	2	2	1	1	19
	6.00	1.00	0.00	0.00	2.00	0.00	0.00	1.00	1.50	1.75	0.00	0.00	13.25
	1		1		1		1		1		1		6
													0.00
		1		1		1		1		1		1	6
													0.00
		1		1		1		1		1		1	6
													0.00
	2	1	1	2	1	1	6	4	3	2	2	1	26
	2.25	0.75	1.00	1.75	1.00	0.00	6.25	4.50	2.50	2.00	1.50	0.00	23.50
			1			1			1			1	4
	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.25
			1			1			1			1	4
													0.00
	5	2	2	1	1	1	2	4	2	4	3	1	28
	4.25	1.25	2.00	0.50	0.00	0.00	1.50	3.50	1.75	4.00	3.00	1.00	22.75
	20	10	10	15	10	25	11	7	5	12	7	3	135
	16.00	8.00	10.25	13.00	11.00	23.50	10.50	5.50	4.75	11.75	6.25	3.00	123.50
	7	7	3	7	7	5	6	8	11	6	4	6	77
	6.00	5.25	4.75	12.00	9.75	3.50	4.75	3.50	2.75	7.25	5.50	6.50	71.50
													0
													0.00
				3									3
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	9	1	4	2	12	13	4	3	3	12	2	16	81
	8.25	0.50	3.50	2.00	11.50	12.50	3.50	2.50	3.00	12.00	1.50	15.25	76.00
													0
													0.00
	3	2		4	1	5		2		2	1	1	21
	2.50	2.00	0.75	0.25	0.75	1.00	3.00	3.25	0.25	1.00	1.00	2.25	18.00
			3			1			3			3	10
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.25	1.25
			3			1			3			3	10
	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	1.25	0.00	0.00	0.25	2.00
	1	1	1	2	1	2	2		1	2	3	3	19
	0.00	0.75	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25
		1	1	1	1			1	1	1	1	1	9

HAWAIIAN ELECTRIC COMPANY
2005 TEST YEAR RATE CASE

SENIOR VICE PRESIDENT-ENERGY SOLUTIONS DEPARTMENT NONPROJECT COST DATA

NARUC 9302: MISCELLANEOUS GENERAL EXPENSES-LABOR

Prepared by _____

Date _____

Units tab card											
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
(enter employee count in "Units tab card")											
	1	1	1	1	1	1	1	1	1	12	
(enter hours in "Units tab card")											
	0	8	8	8	8	8	8	16	16	96	4.6%
			40		40		8	16	40	200	9.6%
										0	
										0	
	25	18	18	25	18	26	19	18	14	228	11.0%
	42	41	27	38	31	43	42	35	31	439	21.1%
	21	18	18	23	14	22	17	18	14	222	10.7%
	50	53	45	50	49	53	50	49	41	583	28.0%
	8	8	8	8	8	8	8	8	4	92	4.4%
	10	10	4	4	4	4	4	4	4	72	3.5%
	8	16	4	8	8	8	8	8	8	100	4.8%
	4	4	4	4	4	4	4	4	4	48	2.3%
4	168	176	176	168	184	176	168	176	176	2,080	
4	168	176	176	168	184	176	168	176	176	2,080	100.0%

8	0	8	8	8	8	8	8	16	16	96
4	168	176	176	168	184	176	168	176	176	2080

:h are budgeted in the Project file)

12/21/2004

HAWAIIAN ELECTRIC COMPANY
2005 TEST YEAR RATE CASE

TECHNOLOGY DEPARTMENT
NONPROJECT COST DATA

NARUC 9302: MISCELLANEOUS GENERAL EXPENSES LABOR

HECO Renewable Energy Research and Development--1628 hours labor

The Technology Division is primarily the renewable energy arm for HECO. Its function is to monitor, evaluate, pursue, recommend and implement new energy-related technologies and alternatives (focusing on renewable energy research, development and demonstration). HECO Technology Division also supports the general renewable energy efforts at HELCO and MECO, renewable energy information development in the Integrated Resource Planning (IRP) process for HECO, HELCO and MECO, evaluation and testimony of renewable energy bills and resolutions and dockets in the legislative and regulatory arenas, and renewable energy efforts by Renewable Hawaii, Inc. In addition, the Technology Division also manages the EPRI membership, technology transfer and integration with Company strategies.

The labor hours estimated for 2005 for Technology Division personnel, newly formed in September 2002, is based on the work required for the Technology Division. The Technology Division budget (see attached budget spreadsheet) is formulated by estimating and summing the labor hour needed for supporting HELCO and MECO renewable energy activities, HECO, HELCO and MECO IRP activities, Sun Power for Schools and Renewable Hawaii, Inc, activities. The difference between the summation of these labor hours and the available work hours results in the renewable energy research and development labor hours.

HECO Sun Power for Schools--100 hours labor

The labor hours estimated for 2005 were reduced based on past activities for the Sun Power for Schools program. These past general activities normally included work related to the management of overall program, management of the installation of photovoltaic systems on public middle and high school rooftops (engineering design, permit approval, procurement and installation), operation and maintenance of the existing photovoltaic installations, downloading the data collected at selected schools and transferring this information to the HECO website so schools can use this information, semi-annual reporting to the PUC, and other activities.

A request for proposal has been released and proposals are due in late January 2005 for turnkey installations. For 2005, we anticipate the installation of at least 4 photovoltaic systems on Waianae Middle, Jarret Middle, Highlands Middle and Nanakuli Middle. Since this will be turnkey installations, HECO labor is reduced in 2005 since the proposer will now do the engineering design, permit approval, procurement and installation that HECO had done in the past. Over the past 5 years, Sun Power for Schools effort for general activities, less engineering design, permit approval, procurement and installation, has averaged about 93 hours.

ck	Comments
SVP7Z 900	
VP7Z 900	
SVP7Z 900	
SVP7Z 501	2005 entry is a placeholder for local R&D--since 2005 budget forecast was requested in Jan 2004 and local R&D was not determined until summer of 2004. Local R&D placeholder--always in the second year of 2-yr budget cycle
SVP7Z 150	
SVP7Z 501	$50K/year for RE development
SVP7Z 501	RE memberships, travel, publications, etc.
SVP7Z 501	Wind initiative (monitoring, assessment and EIS) , ESA is in 9S budget
SVP7Z 501	Biomass initiative with UH and others-seek federal monies
VP7Z 150	
VP7Z 501	
SVP7Z 150	
SVP7Z 501	
VP7Z 150	RE RFPP follow-up
VP7Z 501	RE RFPP follow-up
SVP7Z 150	2005 IRP filing
SVP7Z 501	**PIn&Eng to account for B&V SRO**
VP7Z 150	2005 IRP-3 filing
VP7Z 501	**PIn&Eng to account for B&V SRO**
SVP7Z 150	2006 IRP-3 filing
SVP7Z 501	**PIn&Eng to account for B&V SRO**
VP7Z 150	
SVP7Z 150	
	SPS installation true-up
	Energy Services to Implement Green Power program--$250K taken out of 2005 rate case--double counting since Energy Services Incuded $100K for this effort
SVP7Z 107	224 hrs includes election holiday/DMI makes 5 yrs in 2005
	2080 hrs/person/yr (4160 hrs/2 people/yr)

CA-IR-2

General Information Requests

For each of the HECO witnesses who sponsor test period budgeted non-labor direct expense amounts, please provide the following information:

a. Identify each employee involved in preparation of budgeted non-labor direct expense amounts included in the rate case test period budget and sponsored by the witness.

b. Provide complete copies of all calculations, spreadsheet files, "pencil" workpapers, surveys and other analyses performed by each of the employees identified in response to part (a), indicating the amounts by Department, RA, Activity and NARUC Account that such calculations support.

c. For each budgeted non-labor amount in the test period forecast that exceeds $50,000, please describe the basis for determining the budgeted amount (for example, bid solicitation, price times quantity estimation, historical cost escalated, etc.)

d. For each item in your response to part (c), where specific quantities and prices were discretely forecasted, explain the basis for and source of the budgeted quantity inputs and budgeted prices for each such item. Provide complete copies of all studies, reports and other documents that were relied upon.

e. For each item in your response to part (c) where historical costs were escalated, provide all historical cost information that was considered and explain how such data was evaluated and escalated to derive test year proposed levels.

f. For each item in your response to part (c) where a bid solicitation or other special analysis was conducted, explain what was done and provide complete copies of all supporting reports, bid solicitations, proposal, analyses, workpapers and other documents associated with such efforts.

g. Provide complete copies of all other information required to completely support and document the test year projected expense levels being proposed by the Company, including general assumptions and forecasting instructions that were employed.

HECO Response:

a. Please see Attachment 1, column a. for a listing of employees involved in the preparation of budgeted non-labor direct expense amounts.

b. Please refer to Attachment 1, column b. for support reference.

c. Please refer to Attachment 1, column c. and supporting documentation.

d. Please see supporting documentation.

e. Please see supporting documentation.

f. Please see supporting documentation.

g. Please see supporting documentation.

						CA-IR-2					
						a.	b.	c.	d.	e.	f.
Dept	_RA	Resp Area	Activty	Proj or NonProj	FY05	Budget Preparer	Support (Attachment #)	Basis for >$50,000	Basis for qty and prices in c. response	Historical cost information for c. response	Bid solicitation or special analysis for c. response
President	P9P	President	745	NonProject	1,127.00	Administrator, HECO President's Ofice	See Workpaper HECO-1605	n/a			
President	P9P	President	926	NonProject	94,378.00	Administrator, HECO President's Ofice	See Workpaper HECO-1605	Based on terms of existing lease agreements	See supporting documentation		
SSF	PHA	Admin-Facilities	926	NonProject	505,932.00	Facilities Planning Division Director	See Workpaper HECO-1605	Based on terms of existing lease agreements	See supporting documentation		
SSF	PHA	Admin-Facilities	926	NonProject	955,450.00	Facilities Planning Division Director	See Workpaper HECO-1605	Based on terms of existing lease agreements	See supporting documentation		
TOTAL 931					**1,556,887.00**						
Corp Comm	PQC	Corp Communications	750	NonProject	2,500.00	Lynne Unemori	2	n/a			
Corp Comm	PQC	Corp Communications	969	NonProject	500.00	Lynne Unemori	2	n/a			
Environ	PJA	Admin-Environ	701	NonProject	125.00	Sheri Ann Loo	3	n/a			
Financial VP	P4V	Financial VP	826	NonProject	100.00	Shera Tamanaha	4	n/a			
InfoTech	PEC	Customer Care	967	NonProject	4,300.00	Blane Murakami	5	n/a			
InfoTech	PEI	Infrastruct & Oper	967	NonProject	151,512.00	Blane Murakami	5	Based on historical costs	See supporting documentation		
InfoTech	PEM	Mailing Services	966	NonProject	36,780.00	Blane Murakami	5	n/a			
Legal	PNC	Legal	960	NonProject	200.00	Karen Moon	not available	n/a			
SSF	PHF	Facilities Planning		Project	286,080.00						
SSF	PHF	Facilities Planning		Project	0.00						
SSF	PHS	Security		Project	15,999.96						
SSF	PHS	Security		Project	8,000.04						
SSF	PHS	Security		Project	8,000.04						
Supp Svcs	PVL	Electric & Welding Svcs	931	NonProject	6,000.00	Mark Sterlacci	6	n/a			
Supp Svcs	PVL	Electric & Welding Svcs	932	NonProject	18,000.00	Mark Sterlacci	6	n/a			
Supp Svcs	PVL	Electric & Welding Svcs	932	NonProject	11,960.00	Mark Sterlacci	6	n/a			
Supp Svcs	PVL	Electric & Welding Svcs	932	NonProject	22,056.00	Mark Sterlacci	6	n/a			
VP-Corp Exc	P6V	VP-Corp Excellence	765	NonProject	1,820.00	Kaye Lum	To be provided later under separate filing	n/a			
TOTAL 932					**573,933.04**						
Corp Comm	PQC	Corp Communications	754	NonProject	50,000.00	Lynne Unemori	2	Based on 2003 actual costs escalated by 2% inflation factor	See supporting documentation		
TOTAL 9301					**50,000.00**						
Corp Comm	PQC	Corp Communications	753	NonProject	500.00	Lynne Unemori	2	n/a			
Ed & Cons Aff	PQE	Educ & Cons Affairs	753	NonProject	41,725.81	Ka'iulani de Silva/Karen Watanabe	7	n/a			
Ed & Cons Aff	PQE	Educ & Cons Affairs	753	NonProject	1,284.62	Ka'iulani de Silva/Karen Watanabe	7	n/a			
Ed & Cons Aff	PQE	Educ & Cons Affairs	753	NonProject	130.00	Ka'iulani de Silva/Karen Watanabe	7	n/a			
Ed & Cons Aff	PQE	Educ & Cons Affairs	753	NonProject	17,256.45	Ka'iulani de Silva/Karen Watanabe	7	n/a			

Dept	_RA	Resp Area	Activty	Proj or NonProj	FY05	a. Budget Preparer	b. Support (Attachment #)	c. Basis for >$50,000	d. Basis for qty and prices in c. response	e. Historical cost information for c. response	f. Bid solicitation or special analysis for c. response
Ed & Cons Aff	PQE	Educ & Cons Affairs	753	NonProject	626.59	Ka'iulani de Silva/Karen Watanabe	7	n/a			
Ind Rel	PPA	Admin-Ind Rel	753	NonProject	500.00		n/a	Disallowed item			
InfoTech	PEZ	ISD Chargeback	753	NonProject	61,860.00	Blane Murakami	8	Based on historical costs and allocated based on actual 2003 PEZ proration amounts	See supporting documentation		
MAFS	PKM	ERP Administration	818	NonProject	206,508.00	Gilbert Ho	See WP HECO-1604, pgs. 16-17	Based on maintenance agreements in effect, escalated by CPI-urban inflation factor. Refer to HECO T-16	See supporting documentation		
MAFS	PKM	ERP Administration	842	NonProject	10,668.00	Gilbert Ho	See WP HECO-1604, pgs. 16-17	n/a			
MAFS	PKM	ERP Administration	843	NonProject	69,240.00	Gilbert Ho	See WP HECO-1604, pgs. 16-17	Based on maintenance agreements in effect, escalated by CPI-urban inflation factor. Refer to HECO T-16	See supporting documentation		
MAFS	PKM	ERP Administration	850	NonProject	26,784.00	Gilbert Ho	See WP HECO-1604, pgs. 16-17	n/a			
SVP-EnSol	P9S	Sr VP-Energy Solutions		Project	30,000.00						
SVP-EnSol	P9S	Sr VP-Energy Solutions		Project	40,000.00						
Tech	PNR	Technology	730	NonProject	616,500.00	Art Seki	9	Based on similar costs incurred in prior years	See supporting documentation		
Tech	PNR	Technology	730	NonProject	1,531,200.00	Art Seki	See HECO-1604, pg. 2	Based on membership agreement with EPRI	See supporting documentation		
VP-Corp Exc	P6V	VP-Corp Excellence	749	NonProject	331,412.00	Kaye Lum	See HECO-1604, pg. 11	EEI dues calculated using dues formula established by EEI. Other dues to be provided later under separate filing.	See supporting documentation		
TOTAL 9302					**2,986,195.47**						

HAWAIIAN ELECTRIC COMPANY
2005 TEST YEAR RATE CASE

CORPORATE COMMUNICATIONS DEPARTMENT NONPROJECT COST DATA

NARUC 932: ADMIN & GENL MAINTENANCE-NONLABOR

NARUC 9301: INSTITUTN/GOODWILL ADVERT EXP-NONLABOR

NARUC 9302: MISCELLANEOUS GENERAL EXPENSES-NONLABOR

Corporate Communications
2005 forecast
Maintenance

Naruc A/C	Activity	Exp Element	Maintenance (video and other ofc equip)		
932	750	600	Actual 2003	$ 2,377.00	
			2005 est.	**$ 2,500.00**	**rounded based on 2003**

Corporate Communications
2005 forecast

Naruc A/C	Activity	Exp Element			
921	**969**		**Engineering Library publications, supplies & books:**		
		201/205	Actual 2002	$ 20,922.12	*s/b $2718
		201/205	Actual 2003	$ 4,006.55	
		201	**Forecast for 2005**	**$ 5,500.00**	**est. based on 02/03**

* erroneously classified $18204.22 subscriptions as materials vs. services

921	**969**	**501**	**Engineering Library subscriptions, supplies & cataloging svcs:**		
			Actual 2002	$ 6,895.88	*s/b $25100
			Actual 2003	$ 21,373.88	
		501	**Forecast for 2005**	**$ 24,400.00**	**est based on 2002 (as adjusted) & 2003 (rounded)**
932	**969**	**600**	**Library maintenance:**		
			Est. for misc ofc equip repair	**$ 500.00**	

Advertising
2005 forecast

		Exp element		
A/C 911	**Act 751**	**201**	Rule 16 bill inserts	**$ 6,000**

(actual costs for 2003 $3357; however, costs were for paper only as printing was done in-house. Per ITS, as of 2004, printing services for this very large run will be outsourced.)

A/C 911	**Act 751 Non-Project**	**501**	2003 actual	$ 44,056.11
			plus cust advertising mistakenly accrued in act 754 instead of 751	21446.86
			Adjusted actuals for 2003	65502.97
			Est 2% inflation	1310
				66813.03
			Forecast for 2005 (rounded)	**$ 65,000**
A/C 911	**Act 751 Project**	**501**	2002 actual	$ 304,029.41
			Forecast for 2005 (rounded)	**$ 250,000**

Note: For 2002, these TV ads featured HECO's "My Home Energy Check" online energy audit program. In 2003, it was decided to hold off on these TV flights while the company conducted focus groups to obtain feedback for purposes of honing future messages for maximum effectiveness. Actual costs for customer advertising charged to this project in 2004 amounted to $400,640. The lower amount forecast for 2005 was a conservative estimate.

A/C 9301	**Act 754**	**501**	2003 actual	$ 69,528.60
			less cust advertising mistakenly accrued in act 754	-21446.86
			Adjusted actuals for 2003	48081.74
			Est 2% inflation	961.63
				49043.37
			Forecast for 2005 (rounded)	**$ 50,000**

Corporate Communications
2005 forecast
Supplies

Naruc A/C	Activity	Exp Element		
9302	**753**	**205**	**Supplies - community communications related**	
			Actual 2002	$ 222.26
			Actual 2003	$ 241.87
			Est. 2005	$ 500.00 rounded

HAWAIIAN ELECTRIC COMPANY
2005 TEST YEAR RATE CASE

ENVIRONMENTAL DEPARTMENT
NONPROJECT COST DATA

NARUC 932: ADMIN & GENL MAINTENANCE-NONLABOR

*RA #	*Act #	*Loc #	*Ind #	*Project #	*EE #	Line item	FY04	FY05
PJA	_	_	_	_	462	Stores OHPJA	435	435
PJA	701	PHE	NE	NPJZZZZZ	600	Pacific Bus Machines-Canon - _TC	125	125
PJA	720	PHE	NE	NPJZZZZZ	301	Vehicle for Admin - JA	4,950	5,456
PJA	745	PHE	NE	NPJZZZZZ	508	Update May00 -Katz Environmental	9,167	10,000
PJA	789	PHE	NE	NPJZZZZZ	501	Corp Trend	3,200	3,200
PJA	789	PHE	NE	NPJZZZZZ	501	Training, Local	1,439	1,604
PJA	875	CNS	BE	NPJZZZZZ	522	HGA H13744 006 KEAHOLE AUDITS-TRIPS	187	204
PJA	875	KST	NE	NPJZZZZZ	508	External Air Audit	25,000	23,172
PJA	875	MHN	BE	NPJZZZZZ	522	MGM M11288 002	180	196
PJA	875	NST	BE	NPJZZZZZ	522	MGK M11289 005 TRIPS FOR AUDIT	0	204
PJA	875	PHE	NE	NPJZZZZZ	201	Outside Materials Purchase-EN000020	1,100	1,200
PJA	875	PHE	NE	NPJZZZZZ	205	Materials Purchase Card	2,750	3,000
PJA	875	PHE	NE	NPJZZZZZ	462	PC Software Purchase Dean 6/25/03	4,061	4,428
PJA	875	PHE	NE	NPJZZZZZ	501	AT&T Cellular Phone Svc - EN000010	550	600
PJA	875	PHE	NE	NPJZZZZZ	501	GTE Pager EN000010	92	100
PJA	875	PHE	NE	NPJZZZZZ	501	Misc-Printing, utilities, membership fees/dues	1,283	1,400
PJA	875	PHE	NE	NPJZZZZZ	502	Outside Svcs, Legal	12,833	14,000
PJA	875	PHE	NE	NPJZZZZZ	520	SL-Mainland Travel	8,000	8,000
PJA	875	PHE	NE	NPJZZZZZ	521	SL-Meals/Entertainment	862	940
PJA	875	PHE	NE	NPJZZZZZ	600	Typewriter Contracts	125	125
PJA	875	RST	BE	NPJZZZZZ	522	HGA H13744 002	0	204
PJA	876	CNS	BE	NPJZZZZZ	522	HGA H13745 006	187	204
PJA	876	MNS	BE	NPJZZZZZ	522	MGM M11290 008 TRIPS FOR NPDES AUDIT	187	204
PJA	876	NST	BE	NPJZZZZZ	522	MGK M11289 006	0	204
PJA	876	PHE	NE	NPJZZZZZ	205	Materials Purchase Card-EN000020	2,750	3,000
PJA	876	PHE	NE	NPJZZZZZ	600	Typewriter Contracts	125	125
PJA	877	HEL	BE	NPJZZZZZ	522	HGA H13671 003	363	396
PJA	877	MAU	BE	NPJZZZZZ	522	MDO M12442 002 TRIP FOR PCB AUDIT	187	204
PJA	877	MNS	BE	NPJZZZZZ	522	MGM M11290 007	0	204
PJA	877	NST	BE	NPJZZZZZ	522	MGK M11289 007 AUDIT TRIPS	187	204
PJA	877	SST	BE	NPJZZZZZ	522	HGA H13746 001 RCRA USED OIL AUDIT-TRIP	180	196
PJA	878	HST	NE	NPJZZZZZ	508	Recycle 10 31 03 for 04 $2K reduce Tri Audit-HON'	-1,167	0
PJA	878	HST	NE	NPJZZZZZ	508	UPDATE SEPT02 TRI AUDIT-HON	9,167	8,004
PJA	878	KST	NE	NPJZZZZZ	508	TRI Consultant - Kahe	9,167	0
PJA	878	KST	NE	NPJZZZZZ	508	UPDATE SEPT02 TRI AUDIT-KAHE	-9,167	0
PJA	878	MNS	BE	NPJZZZZZ	522	MGM M11290 009	0	204
PJA	878	NST	BE	NPJZZZZZ	522	MGK M11289 008 TRIPS FOR AUDITS	0	204
PJA	878	PST	BE	NPJZZZZZ	522	HGA H13748 003 AUDIT TRIPS	0	204
PJA	878	RST	BE	NPJZZZZZ	522	HGA H13748 002	0	204
PJA							88,504	92,355
							88,504	92,355

HAWAIIAN ELECTRIC COMPANY
2005 TEST YEAR RATE CASE

FINANCIAL VICE PRESIDENT
DEPARTMENT
NONPROJECT COST DATA

NARUC 932: ADMIN AND GENL
MAINTENANCE-NONLABOR

8/26/2003 Direct Non-labor 2004-05 9

*RA #	*Act #	*Loc #	*Ind #	*Project #	*EE #	Line item	FY03	FY04	FY05	
P4V	749	PHE	NE	NPAVP4ZZ	516	Employee Membership - FEI	$800.00	$800.00	$800.00	1
P4V	749	PHE	NE	NPAVP4ZZ	516	Employee Membership - HSCP	$110.00	$125.00	$125.00	
P4V	749	PHE	NE	NPAVP4ZZ	520	Edison Electric Institute Trip	$3,000.00	$3,000.00	$3,000.00	
P4V	749	PHE	NE	NPAVP4ZZ	521	Edison Electric Institute Meals & Entertainment	$100.00	$100.00	$100.00	
P4V	756	PHE	NE	NPAVP4ZZ	520	GAM/Rating Agency Trip	$3,000.00	$8,000.00	$8,000.00	
P4V	756	PHE	NE	NPAVP4ZZ	521	GAM/Rating Agency Meals & Entertainment	$0.00	$400.00	$400.00	
P4V	826	PHE	NE	NPAVP4ZZ	201	Miscellaneous Publications	$100.00	$600.00	$600.00	2
P4V	826	PHE	NE	NPAVP4ZZ	205	Stationery & Supplies	$200.00	$300.00	$300.00	
P4V	826	PHE	NE	NPAVP4ZZ	301	Vehicle - Company	$2,180.00	$6,288.00	$6,288.00	
P4V	826	PHE	NE	NPAVP4ZZ	501	Personal Data Assistant (RvG)	$0.00	$0.00	$0.00	3
P4V	826	PHE	NE	NPAVP4ZZ	501	Vehicle Parking - Pacific Tower (RvG)	$825.00	$1,980.00	$1,980.00	
P4V	826	PHE	NE	NPAVP4ZZ	501	Cellular (RAngell)	$0.00	$0.00	$0.00	3
P4V	826	PHE	NE	NPAVP4ZZ	516	Employee Membership - The Pacific Club	$825.00	$1,980.00	$2,040.00	
P4V	826	PHE	NE	NPAVP4ZZ	520	Financial Closing Trip	$0.00	$2,500.00	$2,500.00	
P4V	826	PHE	NE	NPAVP4ZZ	521	Financial Closing Meals & Entertainment	$0.00	$100.00	$100.00	
P4V	826	PHE	NE	NPAVP4ZZ	521	Meals & Entertainment	$500.00	$1,200.00	$1,200.00	
P4V	826	PHE	NE	NPAVP4ZZ	522	Interisland Travel	$300.00	$600.00	$600.00	
P4V	826	PHE	NE	NPAVP4ZZ	600	Equipment Maintenance	$100.00	$100.00	$100.00	4
P4V	827	PHE	NE	NPAVP4ZZ	501	Outside Consulting	$0.00	$50,000.00	$50,000.00	
P4V							$12,040.00	$78,073.00	$78,133.00	
							$12,040.00	$78,073.00	$78,133.00	

1) National dues and local dues
2) Wall Street Journal alone is $330 annually
3) ITS budgets for this
4) Per Karen Hieda, ext. 7560
Pacific Business Machines' contract is 10/1/03-9/30/04

$61.36 per year; unlimited service calls; no charge on some parts

or

$45.00 + tax per each service call; no charge on some parts

HAWAIIAN ELECTRIC COMPANY
2005 TEST YEAR RATE CASE

INFORMATION TECHNOLOGY & SERVICES DEPARTMENT NONPROJECT COST DATA

NARUC 932: ADMIN AND GENL MAINTENANCE-NONLABOR

Dept	*RA #	*Act #	*Ind #	*Loc #	*Proj #	*EE #	Line Item	FY05 Upd04 RA	Expense Category	
~~InfoTech~~	~~PEA~~	~~901~~	~~NE~~	~~PHE~~	~~NPEZZZZZ~~	~~401~~	~~Prioritization List Additions~~	~~$105,000~~	~~Other~~	DELETED 6/3/04
InfoTech	PEA	965	NE	PHE	NPEZZZZZ	205	Records Mgt Supplies & Ref Materials	$1,200	Materials	
InfoTech	PEA							$106,200		
InfoTech	PEC	965	NE	PHE	NPEZZZZZ	150	IMPL 965-150 Provide Records Mgmt Svcs	$43,169	Labor	1752 HRS - 1 EMPL
InfoTech	PEC	965	NE	PHE	NPEZZZZZ	150	BUOC Provide Records Mgmt Svcs 965	$42,732	Labor	1800 HRS - 1 EMPL
InfoTech	PEC	965	NE	PHE	NPEZZZZZ	150	TC Provide Records Mgmt Svcs 965	$62,318	Labor	1956 HRS - 1 EMPL
InfoTech	PEC	965	NE	PHE	NPEZZZZZ	501	Records Equip Maintenance	$2,000	Outside Svcs	BASED ON HISTORY
InfoTech	PEC	965	NE	PHE	NPEZZZZZ	501	Records Outside Svcs (ie Storage)	$60,000	Outside Svcs	$80,000
InfoTech	PEC	965	NE	PHE	NPEZZZZZ	501	Records Outside Svcs (ie Microfilm, Rearch, etc)	$13,000	Outside Svcs	
InfoTech	PEC	965	NE	PHE	NPEZZZZZ	501	Shredex	$5,000	Outside Svcs	
InfoTech	PEC	967	NE	PHE	NPEZZZZZ	501	Copyright Clearinghouse License	$7,600	Outside Svcs	
InfoTech	PEC	967	NE	PHE	NPEZZZZZ	600	Shredder Equip Maint	$4,300	Other	NARUC 932
InfoTech	PEC							$240,119		
InfoTech	PEI	967	NE	PHE	NPEZZZZZ	150	TC Provide Printing Svcs 967 (PER TCS)	$60,024	Labor	1884 HRS - 1 EMPL
InfoTech	PEI	967	NE	PHE	NPEZZZZZ	150	I Provide Printing Svcs 967 (PER)	$43,465	Labor	1764 HRS - 1 EMPL
InfoTech	PEI	967	NE	PHE	NPEZZZZZ	150	BUOC Provide Printing Svcs 967 (PER)	$86,034	Labor	3624 HRS - 2 EMPL
InfoTech	PEI	967	NE	PHE	NPEZZZZZ	201	Copier, Fax, Toner & Misc Supplies	$84,000	Materials	BASED ON HISTORY $92,400
InfoTech	PEI	967	NE	PHE	NPEZZZZZ	201	Printshop Supplies (PER)	$8,400	Materials	
InfoTech	PEI	967	NE	PHE	NPEZZZZZ	205	Printshop Supplies (PER)	$32,200	Materials	$107,200
InfoTech	PEI	967	NE	PHE	NPEZZZZZ	205	Copier & Fax Paper - Pro Card	$75,000	Materials	
InfoTech	PEI	967	NE	PHE	NPEZZZZZ	501	Safety Shoes (PER)	$864	Outside Svcs	
InfoTech	PEI	967	NE	PHE	NPEZZZZZ	501	Copier Software & Software Upgrades	$3,300	Outside Svcs	$11,688
InfoTech	PEI	967	NE	PHE	NPEZZZZZ	501	Printshop Outside Svcs (PER)	$7,524	Outside Svcs	
InfoTech	PEI	967	NE	PHE	NPEZZZZZ	600	Copier & Fax Equip Maint	$144,000	Other	NARUC 932 $151,512
InfoTech	PEI	967	NE	PHE	NPEZZZZZ	600	Printshop Equip Maint (PER)	$7,512	Other	NARUC 932
InfoTech	PEI	968	NE	PHE	NPEZZZZZ	150	BUOC Prov Word Proc Svcs 968 (PER)	$42,732	Labor	1800 HRS - 1 EMPL
InfoTech	PEI	968	NE	PHE	NPEZZZZZ	462	Word Proc Software & Upgrades (PER)	$2,151	Other	
InfoTech	PEI							$597,206		
InfoTech	PEM	614	NE	OAH	NPEZZZZZ	150	BUOC Proc Customer Bills 614	$89,167	Labor	3756 HRS - 2 EMPL
InfoTech	PEM	966	NE	PHE	NPEZZZZZ	150	BUTC Handle & Deliver Mail 966	$52,473	Labor	1932 HRS - 1 EMPL
InfoTech	PEM	966	NE	PHE	NPEZZZZZ	150	TCS Handle & Deliver Mail 966	$60,096	Labor	1920 HRS - 1 EMPL
InfoTech	PEM	966	NE	PHE	NPEZZZZZ	150	BUOC Handle & Deliver Mail 966	$228,759	Labor	9636 HRS - 5 EMP

A&G OPERATIONS

CUSTOMER OPERATIONS

A&G OPERATIONS

4AM

Mar04

HAWAIIAN ELECTRIC COMPANY
2005 TEST YEAR RATE CASE

SUPPORT SERVICES DEPARTMENT
NONPROJECT COST DATA

NARUC 932: ADMIN & GENL MAINTENANCE-NONLABOR

eet - NonProject

Prepared by Allison Sawada
Date 4/5/04

Units tab card												
n	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
*(enter **Dollars** or **Vehicle Hours** in **"Units tab card"**)*												
500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	18,000
680	1600	1840	1680	1760	1760	1680	1840	1760	1680	1760	1760	20,800
200	200	200	200	200	200	200	200	200	200	200	200	2,400
0	0	0	0	6,000	0	0	0	0	0	0	0	6,000
625	625	625	625	625	625	625	625	625	625	625	625	7,500
200	200	200	200	200	200	200	200	200	200	200	200	2,400
877	1877	1877	1877	1877	1877	1877	1877	1877	1877	1877	1877	22,524
350	350	350	350	350	350	350	350	350	350	350	350	4,200
882	840	966	882	924	924	882	966	924	882	924	924	10,920
115	115	115	115	115	115	115	115	115	115	115	115	1,380
500	500	500	500	500	500	500	500	500	500	500	500	6,000
500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	18,000
966	920	1058	966	1012	1012	966	1058	1012	966	1012	1012	11,960
838	1838	1838	1838	1838	1838	1838	1838	1838	1838	1838	1838	22,056
965	2965	2965	2965	2965	2965	2965	2965	2965	2965	2965	2965	35,580
500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	18,000

												0
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												0
												0
												0

HAWAIIAN ELECTRIC COMPANY
2005 TEST YEAR RATE CASE

EDUCATION & CONSUMER AFFAIRS DEPARTMENT
NONPROJECT COST DATA

NARUC 9302: MISCELLANEOUS GENERAL EXPENSES-NONLABOR

CA-IR-2

General Information Requests

For each of the HECO witnesses who sponsor test period budgeted non-labor direct expense amounts, please provide the following information:

a. Identify each employee involved in preparation of budgeted non-labor direct expense amounts included in the rate case test period budget and sponsored by the witness.

set up with its own work order). We used data from July 1, 2002 to June 30, 2003 (rather than January 1, 2002 to December 31, 2002) because it more accurately reflects the expenses incurred while we're fully staffed (we had two vacancies in 2002). For those programs that we anticipated changes based on company goals and projects, we adjusted the forecast accordingly. For example, we planned to expand energy conservation and efficiency educational programs, therefore, we forecasted more dollars [illegible]

Education Program than what was forecasted or expended in 2003. We then used the "Education and Consumer Affairs Budget 2005" spreadsheet to allocate forecasted dollars for each expense element for January through December.

c. For Education and Consumer Affairs, we have no budgeted non-labor amount in the test period forecast that exceeds $50,000.

d. Not applicable – see part (c) above.

Education and Consumer Affairs Budget 2005

Program	Work Order	Activity	Expense Element	Original Forecast Jan-05	Forecast Feb-05	Forecast Mar-05	Forecast Apr-05	Forecast May-05	Forecast Jun-05	Forecast Jul-05	Forecast Aug-05	Forecast Sep-05	Forecast Oct-05	Forecast Nov-05	Forecast Dec-05	Original Forecast Total for each EE
Physically Challenged	CR000081	753	201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Physically Challenged	CR000081	753	205	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Physically Challenged	CR000081	753	301	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Physically Challenged	CR000081	753	501	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Physically Challenged	CR000081	753	503	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Physically Challenged	CR000081	753	520	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Physically Challenged	CR000081	753	521	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Physically Challenged Program Total				**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
																0.00
STW/TECH Prep	CR000098/99	753	201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STW/TECH Prep	CR000098/99	753	205	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STW/TECH Prep	CR000098/99	753	301	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STW/TECH Prep	CR000098/99	753	501	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STW/TECH Prep	CR000098/99	753	503	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STW/TECH Prep	CR000098/99	753	520	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STW/TECH Prep	CR000098/99	753	521	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STW/Tech Prep Program Total				**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
																0.00
Electron Marathon	CR000091	753	201	0.00	0.00	3,133.45	3,133.45	0.00	0.00	16,789.42	0.00	16,789.42	0.00	0.00	0.00	39,845.74
Electron Marathon	CR000091	753	205	0.00	0.00	0.00	574.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	574.36
Electron Marathon	CR000091	753	301	40.88	40.88	40.88	40.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	163.52
Electron Marathon	CR000091	753	501	9,571.03	10,444.84	(3,555.16)	10,444.84	0.00	0.00	0.00	0.00	(25,550.00)	0.00	0.00	0.00	1,355.55
Electron Marathon	CR000091	753	503	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electron Marathon	CR000091	753	520	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electron Marathon	CR000091	753	521/522	0.00	0.00	365.88	208.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	574.36
Electron Marathon Program Total				**9,611.91**	**10,485.72**	**(14.95)**	**14,402.02**	**0.00**	**0.00**	**16,789.42**	**0.00**	**(8,760.58)**	**0.00**	**0.00**	**0.00**	**42,513.53**
																42,513.53
Invention Convention/Cr	CR000096	753	201	0.00	0.00	0.00	531.44	531.44	531.44	531.44	531.44	531.44	531.44	0.00	0.00	3,720.08
Invention Convention/Cr	CR000096	753	205	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Invention Convention/Cr	CR000096	753	301	0.00	0.00	0.00	10.22	10.22	10.22	10.22	10.22	10.22	0.00	0.00	0.00	61.32
Invention Convention/Cr	CR000096	753	501	0.00	0.00	0.00	715.40	715.40	715.40	715.40	(6,132.00)	715.40	715.40	(2,146.20)	0.00	(3,985.80)
Invention Convention/Cr	CR000096	753	503	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Invention Convention/Cr	CR000096	753	520	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Invention Convention/Cr	CR000096	753	521	0.00	0.00	0.00	51.10	51.10	51.10	51.10	0.00	0.00	0.00	0.00	0.00	204.40
Invention Convention/Creat Conf Program Total				**0.00**	**0.00**	**0.00**	**1,308.16**	**1,308.16**	**1,308.16**	**1,308.16**	**(5,590.34)**	**1,257.06**	**1,246.84**	**(2,146.20)**	**0.00**	**(0.00)**
																0.00

		Original Forecast Total for each EE
Dec-06		
0.00	Y	104.45
0.00	X	208.90
0.00		0.00
0.00		0.00
0.00		0.00
0.00		0.00
0.00	Y	52.22
0.00		**365.57**
		365.57
387.81	X	1,775.62
0.00		0.00
0.00		0.00
0.00	X	1,775.62
0.00		0.00
0.00		0.00
0.00		0.00
387.81		**3,551.25**
		3,551.25
0.00		0.00
41.78	X	501.35
0.00		0.00
10.44	X	125.34
0.00		0.00
0.00		0.00
0.00		0.00
52.22		**626.69**
		626.69
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
0.00		**0.00**
		0.00

8/23/2003 2:12 PM

CA-IR-2
DOCKET NO. 04-0113
HECO T-16
ATTACHMENT 7
PAGE 5 OF 9

Education and Consumer Affairs Budget 2005

Program	Work Order	Activity	Expense Element	Original Forecast Jan-05	Forecast Feb-05	Forecast Mar-05	Forecast Apr-05	Forecast May-05	Forecast Jun-05	Forecast Jul-05	Forecast Aug-05	Forecast Sep-05	Forecast Oct-05	Forecast Nov-05	Forecast Dec-05	Original Forecast Total for each EE
HEI Charitable-CRA	CR000214	753	201													0.00
HEI Charitable-CRA	CR000214	753	205													0.00
HEI Charitable-CRA	CR000214	753	301													0.00
HEI Charitable-CRA	CR000214	753	501													0.00
HEI Charitable-CRA	CR000214	753	503													0.00
HEI Charitable-CRA	CR000214	753	520													0.00
HEI Charitable-CRA	CR000214	753	521													0.00
HEI Charitable-CRAG Total				**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
																0.00
HELCO Bill-Outrea	CR000102	753	201													0.00
HELCO Bill-Outrea	CR000102	753	205													0.00
HELCO Bill-Outrea	CR000102	753	301													0.00
HELCO Bill-Outrea	CR000102	753	501			8,000.00										8,000.00
HELCO Bill-Outrea	CR000102	753	503													0.00
HELCO Bill-Outrea	CR000102	753	520													0.00
HELCO Bill-Outrea	CR000102	753	521													0.00
HELCO Bill - Community/Education Outreach				**0.00**	**0.00**	**8,000.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**8,000.00**
																8,000.00
MECO Bill-Outreac	CR000104	753	201													0.00
MECO Bill-Outreac	CR000104	753	205													0.00
MECO Bill-Outreac	CR000104	753	301													0.00
MECO Bill-Outreac	CR000104	753	501			6,000.00										6,000.00
MECO Bill-Outreac	CR000104	753	503													0.00
MECO Bill-Outreac	CR000104	753	520													0.00
CO Bill-Outreac	CR000104	753	521													0.00
CO Bill - Community/Education Outreach				**0.00**	**0.00**	**6,000.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**6,000.00**
																6,000.00
HEI Bill-Outreach	CR000191	753	201													0.00
HEI Bill-Outreach	CR000191	753	205													0.00
HEI Bill-Outreach	CR000191	753	301													0.00
HEI Bill-Outreach	CR000191	753	501													0.00
HEI Bill-Outreach	CR000191	753	503													0.00
HEI Bill-Outreach	CR000191	753	520													0.00
HEI Bill-Outreach	CR000191	753	521													0.00
HEI - Community/Education Outreach				**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Education and Consumer Affairs Budget 2005

Program	Work Order	Activity	Expense Element	Original Forecast Jan-05	Forecast Feb-05	Forecast Mar-05	Forecast Apr-05	Forecast May-05	Forecast Jun-05	Forecast Jul-05	Forecast Aug-05	Forecast Sep-05	Forecast Oct-05	Forecast Nov-05	Forecast Dec-05	Original Forecast Total for each EE
																0.00
IS Exp-Prod & Dev	CR000167	753	201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IS Exp-Prod & Dev	CR000167	753	205	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IS Exp-Prod & Dev	CR000167	753	301	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IS Exp-Prod & Dev	CR000167	753	451	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IS Exp-Prod & Dev	CR000167	753	501	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IS Exp-Prod & Dev	CR000167	753	503	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IS Exp-Prod & Dev	CR000167	753	520	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IS Exp-Prod & Dev	CR000167	753	521	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IS Exp-Prod & Dev				**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Activity 753 Maintain Relations with Community Totals		753	201	**0.00**	**0.00**	**3,237.90**	**3,664.89**	**531.44**	**1,419.25**	**17,320.86**	**531.44**	**17,320.86**	**531.44**	**0.00**	**887.81**	**45,445.89**
		753	205	**41.78**	**41.78**	**250.68**	**616.14**	**41.78**	**41.78**	**41.78**	**41.78**	**41.78**	**41.78**	**41.78**	**41.78**	**1,284.61**
		753	301	**40.88**	**40.88**	**40.88**	**51.10**	**10.22**	**10.22**	**10.22**	**10.22**	**10.22**	**0.00**	**0.00**	**0.00**	**224.84**
		753	451	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
		753	501	**9,581.47**	**10,455.28**	**10,455.28**	**11,170.68**	**2,501.47**	**725.84**	**725.84**	**(6,121.56)**	**(24,824.16)**	**725.84**	**(2,135.76)**	**10.44**	**13,270.71**
		753	503	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
		753	520	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
		753	521	**0.00**	**0.00**	**418.10**	**259.59**	**51.10**	**51.10**	**51.10**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**830.99**
				9,664.13	10,537.94	14,402.84	15,762.41	3,136.01	2,248.20	18,149.80	(5,538.12)	(7,451.30)	1,299.06	(2,093.98)	940.04	61,057.04

INTEROFFICE CORRESPONDENCE

Hawaiian Electric Co., Inc.

February 20, 2004

TO: Officers, Managers and Direct Reports

FROM: Rick Stuller, Manager-ITS and CIO

SUBJECT: Budgeting for IT Non-project/Non-program Items (2005)

A Reminder when preparing your Non-program/Non-project budget of ITS items

DO *NOT* Budget:

Business Desktop Copier, Fax and Printer Paper and Supplies

ITS has assumed the responsibility of budgeting all business desktop copier, fax and printer paper and supplies. (Does not include EFMS hardware)

NEW ITEM: Long-distance telephone costs

ITS will assume the responsibility of budgeting long-distance telephone costs. Please remove those costs from your 2005 budgets.

***Please* INCLUDE in your Department Budget:**

PC Software Purchases

Use expense element 462 for all new or additional PC software purchases that you anticipate in 2005. ITS will continue to procure all new software licenses and charge your department directly. Listed below are some typical software prices. Should you need other prices, please click on the link below.

http://intranet/information_technology_services/desktop/products/prodlist.asp

Microsoft Office - $400	Microsoft Visio Standard - $175
Microsoft Project - $320	Microsoft Visio Professional - $435

Misc. PC Hardware Purchases

Include dollars for any miscellaneous hardware purchases that are less than $300 (i.e. mice, keyboards, surge suppressors, CD-R/W's, etc.) To search for product prices, click on the link below.

http://intranet/information_technology_services/desktop/products/prodlist.asp

PC Training Classes

On an "as-needed" basis, please budget $150 per person/class, which is for software such as Microsoft Excel, Word, Project, and Visio.

NON-ITS PROJECTS

If you are planning to budget ITS labor for non-ITS projects, please use RA PEZ and expense element 451. Do not use expense element 150. ITS labor will allocate to the non-ITS projects through the IT Costing System, which will cost the labor as expense element 451.

Should you have questions, please contact Patti Young at x7864 or your respective IT Business Solutions Consultant.

cc: Irene Harada
Patti Young
Blane Murakami
IT BSCs

HAWAIIAN ELECTRIC COMPANY
2005 TEST YEAR RATE CASE

INFORMATION TECHNOLOGY & SERVICES DEPARTMENT
ISD CHARGEBACK
NONPROJECT COST DATA

NARUC 9302: MISCELLANEOUS GENERAL EXPENSES-NONLABOR

12/20/2004

Dept	_RA	Resp Area	Acct Blk	Acct Blk Descr	NARUC	Exp Class	_Proj	_Act	_Loc	_EE	FY05
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPKZZZZZ	701	PHE	451	96,516
											$96,516.00
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPKZZZZZ	825	PHE	451	17,424
											$17,424.00
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPKZZZZZ	826	PHE	451	51,468
											$51,468.00
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPKZZZZZ	827	PHE	451	34,152
											$34,152.00
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPNAZZZZ	760	PHE	451	44,616
											$44,616.00
InfoTech	PEZ	ISD Chargeback	B38	A & G Operation	921	Non-Labor	NPNCZZZZ	960	PHE	451	74,928
											$74,928.00
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	921	Non-Labor	NPNEZZZZ	600	OAH	451	5,304

Hawaiian Electric Company, Inc.
Information Technology & Services Department
ITS Costing System Allocated Costs - PEZ Entries

HECO's IT costs are allocated to functional area code blocks via the IT Costing System. The allocation entries are coded with the Responsibility Area (RA) code PEZ in HECO's financial system. The following is a general description of the PEZ budgeting methodology. Workpapers A-1 through A-7 show the detail allocation amounts for 2005.

Costs to be Cleared
IT Non-Project and non-capital Project costs represent the base of costs to be allocated. These costs are coded with Indicator NC (Non-billable clearing) and are therefore said to be subject to "Clearing". For 2005, the Costs to be Cleared were estimated to be $12,865,283, as shown on workpaper A-1. Details of these costs are shown on workpapers B and C.

Costs Cleared to
IT Costs are cleared to the following categories:
1) HELCO IT Costing System Direct Charges (2005 Estimate - $226,338)
2) MECO IT Costing System Direct Charges (2005 Estimate - $177,768)
3) Non-ITS Project Charges - Expense Element 451 transactions (2005 Estimate - $709,008)
4) Intercompany Billings (2005 Estimate - $265,335)
5) EFMS Program Charges (2005 Estimate - $799,992)
6) Ebusiness Program Charges (2005 Estimate - $758,292)
7) Other Functional Area Charges ($9,928,550)

Basis for Clearing
Amounts which are cleared to the first 4 items above (HELCO/MECO IT Direct Charges, Non-ITS Project Charges, Intercompany Billings) are directly identified. Workpapers D, E, and F show the basis for the amounts included in the 2005 budget.

Amounts which are cleared for items 5 (EFMS Program) and 6 (Ebusiness Program) are estimated by the Program Managers of these IT-Managed programs. Costs are cleared to HECO functional area code blocks benefiting from the services provided by these programs. EFMS and Ebusiness Program costs are shown on workpaper C. Proration percentages used to allocate these costs were identified by Program Managers in prior years and are shown on workpaper G-1.

The amount of item 7 (Other Functional Area Charges) represent the residual of "Costs to be Cleared" reduced by the first 6 items of "Costs Cleared to". These costs are prorated to functional area code blocks based on actual 2003 PEZ proration amounts shown on workpaper G.

PEZ Workpaper Index
A - PEZ Allocation Model
B - Non-Project "NC" Charges
C - Project "NC" Charges
D - HELCO and MECO IT Costing System Direct Charges
E - Non-ITS Project - Expense Element 451 Charges
F - Intercompany Billable Estimates
G - 2003 PEZ Actuals

Prepared by Blane Murakami, ITS Project Manager

PEZ ALLOCATION MODEL

Hawaiian Electric Company, Inc.										
Information Technology & Services Department										
PEZ Actuals Jan- Dec 2003										
	RA	Act	Loc	Ind	Project	EE		Monthly 05		Total 2005
COSTS TO BE CLEARED:										
Total NC charges										
	NC per Non-Project								B	9,093,607
	Non-Project on-cost								B	2,149,763
	NC per EFMS Project								C	800,000
	NC per EBUS Project								C	758,300
	NC per Other Projects								C	63,613
		Total NC charges						1,072,107		12,865,283
COSTS CLEARED TO:										
Less: HELCO-IT Costing System direct charge								18,862	D	226,338
per B. Tobara										
Less: MECO-IT Costing System direct charge								14,814	D	177,768
per B. Tobara										
Less: Expense Element 451 charges by non-ITS PMs									E	709,008
										11,752,169
Less: InterCompany										
	PEZ	700	RHI	BE	NPASVP7Z	451		89	F	1,070
	PEZ	775	HEI	BE	NPEZZZZZ	451		212	F	2,544

Hawaiian Electric Company, Inc.
Information Technology & Services Department
PEZ Actuals Jan- Dec 2003

	RA	Act	Loc	Ind	Project	EE			Monthly 05	Total 2005	
	PEZ	455	OAH	NC	NPEZZZZZ				3,928	47,136.00	
	PEZ	455	OAH	NE	NPEZZZZZ				399	4,788.00	
	PEZ	456	OAH	NE	NPEZZZZZ				6,794	81,528.00	
	PEZ	600	OAH	NE	NPWZZZZZ				14,944	179,328.00	
	PEZ	907	OAH	NC	NPBZZZZZ				1,993	23,916.00	
	PEZ	926	PHE	NE	NPEZZZZZ				1,108	13,296.00	
	PEZ	931	PHE	NE	NPEZZZZZ				2,038	24,456.00	
Total EFMS									66,667	799,992.00	
				NE	41%			NE		331,944.00	
				NC	59%			NC		468,048.00	
				Total	100%					799,992.00	
Less: EBusiness Allocations											
	PEZ	110	PHE	NE	NPNEZZZZ				6565	78,780.00	
	PEZ	600	OAH	NE	NPNEZZZZ				442	5,304.00	
	PEZ	611	OAH	NE	NPNEZZZZ				13401	160,812.00	
	PEZ	713	PHE	NE	NPNEZZZZ				5688	68,256.00	
	PEZ	730	PHE	NE	NPNEZZZZ				0	-	
	PEZ	750	PHE	NE	NPNEZZZZ				23255	279,060.00	

Hawaiian Electric Company, Inc.
Information Technology & Services Department
PEZ Actuals Jan- Dec 2003

RA	Act	Loc	Ind	Project	EE	Monthly 05	Total 2005
PEZ	242	KST	NE	**NPIZZZZZ**	451	6,904	82,848
PEZ	242	WST	NE	**NPIZZZZZ**	451		
PEZ	242	HST	NE	**NPIZZZZZ**	451		
	242 Total						
PEZ	245	KST	NE	NPAVP2ZZ	451	1,075	12,900
	245 Total						
PEZ	246	KST	NE	NPAVP2ZZ	451	898	10,776
	246 Total						
PEZ	256	WST	NE	**NPIZZZZZ**	451	34,054	408,648
PEZ	256	KST	NE	**NPIZZZZZ**	451		
PEZ	256	HST	NE	**NPIZZZZZ**	451		
	256 Total						
PEZ	258	KST	NE	NPAVP2ZZ	451	1,364	16,368
	258 Total						
PEZ	261	KST	NE	NPAVP2ZZ	451	809	9,708
	261 Total						
PEZ	[illegible]	[illegible]	NE	**NPIZZZZZ**	451	46,700	560,400

Hawaiian Electric Company, Inc.

Information Technology & Services Department

PEZ Actuals Jan- Dec 2003

	RA	Act	Loc	Ind	Project	EE			Monthly 05	Total 2005
		461 Total								
	PEZ	462	OAH	NE	NPAVP2ZZ	451			310	3,720
		462 Total								
	PEZ	463	OAH	NE	NPAVP2ZZ	451			344	4,128
		463 Total								

Hawaiian Electric Company, Inc.										
Information Technology & Services Department										
PEZ Actuals Jan- Dec 2003										
	RA	Act	Loc	Ind	Project	EE		Monthly 05	Total 2005	
	PEZ	714	PHE	NE	NPEZZZZZ	451				

Hawaiian Electric Company, Inc.
Information Technology & Services Department
PEZ Actuals Jan- Dec 2003

RA	Act	Loc	Ind	Project	EE	Monthly 05	Total 2005
PEZ	818	PHE	NE	**NPAVP1ZZ**	451		
PEZ	818	PHE	NE	NPAZZZZZ	451		
	818 Total						
PEZ	825	PHE	NE	NPKZZZZZ	451	1,452	17,424
	825 Total						
PEZ	826	PHE	NE	NPKZZZZZ	451	4,289	51,468
PEZ	826	PHE	NE	NPAVP4ZZ	451		
	826 Total						
PEZ	827	PHE	NE	NPKZZZZZ	451	2,846	34,152
	827 Total						
PEZ	842	PHE	NE	**NPVZZZZZ**	451	16,574	198,888
PEZ	842	PHE	NE	NPAVP2ZZ	451		
	842 Total						
PEZ	843	PHE	NE	NPAVP2ZZ	451	16,353	196,236
PEZ	843	PHE	NE	NPEZZZZZ	451		
PEZ	843	PHE	NI	P0000340	451		
PEZ	843	PHE	NE	NPAZZZZZ	451		
	843 Total						
PEZ	850	PHE	NE	NPAVP2ZZ	451	4,484	53,808
PEZ	850	PHE	NE	**NPIZZZZZ**	451		
	850 Total						
PEZ	853	PHE	NC	**NPVZZZZZ**	451	12,945	155,340
	853 Total						
PEZ	875	HST	NE	NPJZZZZZ	451	7,005	84,060
PEZ	875	PHE	NE	NPJZZZZZ	451		
	875 Total						
PEZ	876	PHE	NE	NPJZZZZZ	451	11,888	142,656
	876 Total						
PEZ	896	PHE	NE	NPEZZZZZ	451	3,417	41,004
	896 Total						
PEZ	899	PHE	NE	NPKZZZZZ	451	-	-
	899 Total						
PEZ	907	OAH	NC	NPBZZZZZ	451	1,570	18,840
PEZ	907	OAH	NC	NPEZZZZZ	451		
	907 Total						
PEZ	916	PHE	NC	**NPRZZZZZ**	451	2,846	34,152
	916 Total						
PEZ	926	PDO	NE	NPWZZZZZ	451	4,558	54,696
PEZ	926	PHE	NE	**NPNLZZZZ**	451		
	926 Total						
PEZ	928	PHE	NE	NPNLZZZZ	451	3,262	39,144
	928 Total						
PEZ	931	PHE	NE	**NPHZZZZZ**	451	5,009	60,108
	931 Total						
PEZ	932	PHE	NE	**NPVZZZZZ**	451	2,950	35,400
	932 Total						
PEZ	933	PHE	NE	**NPHZZZZZ**	451	5,605	67,260
	933 Total						
PEZ	940	PHE	NC	**NPVZZZZZ**	451	6,366	76,392
PEZ	940	PHE	NC	NPEZZZZZ	451		

Hawaiian Electric Company, Inc.
Information Technology & Services Department
PEZ Actuals Jan- Dec 2003

RA	Act	Loc	Ind	Project	EE			Monthly 05	Total 2005
PEZ	950	PHE	NE	**NPHZZZZZ**	451			8,268	99,216
PEZ	950	PHE	NE	**NPKZZZZZ**	451				
	950 Total								
PEZ	951	PHE	NE	NPKZZZZZ	451			2,825	33,900
	951 Total								
PEZ	953	PHE	NE	NPFZZZZZ	451			3,520	42,240
	953 Total								
PEZ	960	PHE	NE	NPNCZZZZ	451			6,244	74,928
	960 Total								
PEZ	965	PHE	NE	NPEZZZZZ	451			1,636	19,632
	965 Total								
PEZ	966	PHE	NE	NPEZZZZZ	451			2,896	34,752
	966 Total								
PEZ	967	PHE	NE	NPEZZZZZ	451			3,375	40,500
	967 Total								
	Grand Total							827,378	9,928,536
						NE		599,043	7,249,788
						NC/N		228,335	2,678,748
									9,928,536
Check total to pillar									11,752,155.00

NON-PROJECT "NC" CHARGES

4/20/2004 » budget manager: PR300 11:49AM

Dept	Expense Categ...	FY05 Upd04 RA
InfoTech	Labor (A)	$4,714,393
	Materials	$105,604
	On-Costs	0
	Other	$1,181,513
	Outside Svcs	$3,090,837
	Transportation	$1,260
		$9,093,607

SEE WORKPAPER B-3 FOR DETAILS

LABOR (A) [illegible]

LABOR ON-COST % XB-1 X [illegible]

[illegible] LABOR ON-COST 2,149,763

B

NON-PAYROLL TOTAL CHARGES

4/20/2004 » budget manager: P... 11:49AM

NOTE: USED TO CALCULATE LABOR ON-COST %

Dept	Expense Categ...		FY05 Upd04 RA
InfoTech	Labor	C	$6,241,212
	Materials	A	$314,204
	On-Costs	E	$2,875,047
	Other		$1,761,191
	Outside Svcs		$3,311,618
	Transportation		$23,040
			$14,526,312

MATERIAL	A	314,204
MATERIAL ON-COST %		x B-2 x .0915
MATERIAL ON-COST		28,750 =
TOTAL ON-COST	B	2,875,047
LABOR ON-COST		2,846,297
LABOR BASE	C	6,241,212
LABOR ON-COST %		45.6% x B

B-1

On-Costs and Vehicle Rates

On-Cost	2004 Budget Rates	1/1/2004 Recorded Rates	2/1/2004 Recorded Rates	4/1/2004 Recorded Rates	Preliminary 2005 Budget Rates
Payroll Taxes	8.51%	8.51%	8.51%	8.51%	8.42%
Employee Benefits	$6.25	$9.38	$5.96	$5.96	$6.46
Non-Productive Wages	$4.44	$4.44	$4.44	$4.44	$3.84
Corporate Administration	$2.76	$2.89	$2.74	$2.74	$2.86
Customer Engineering	$113.55	$119.53	$100.00	$90.00	$98.56
Stores	12.00%	12.55%	10.70%	10.70%	9.15%
Energy Delivery	$26.80	$28.22	$27.75	$27.75	$26.88
Power Supply	$6.38	$6.72	$6.24	$6.24	$6.70
Vehicles					
Heavy Trucks (VH)	$12.50	$12.47	$16.39		$12.50
Medium Trucks (VM)	$8.50	$9.45	$12.53		$8.75
Light Trucks (VL)	$5.50	$5.08	$4.98		$5.50
Sedans (VS)	$2.75	$1.89	$2.79		$2.50
Condor 150I (VC)	$58.25	$31.79	$37.32		$59.25
Misc (VZ)	$1.50	$1.26	$1.55		$1.50
Caterpillar (VX)	$4.25	$2.25	$2.61		$4.25

x B-1

Productive labor is labor less non-productive hours such as holiday, sick, vacation, etc.

Effective 1/1/01, there are no recorded vehicle rates. Instead, transportation clearing costs are allocated monthly to (1) assigned vehicles based on 8 hours per day, Monday through Friday, excluding holidays and (2) pool vehicles based on actual usage.

NON-PROJECT "NC" CHARGES

Dept	*RA #	*Act #	*Ind #	*Loc #	*Proj #	*EE #	Line item	FY05 Upd04 RA	Expense Category
InfoTech	PEA	730	NC	PHE	NPEZZZZZ	150	E res new tech 730	$7,796	Labor
InfoTech	PEA	777	NC	PHE	NPEZZZZZ	150	I process payroll 777	$2,365	Labor
InfoTech	PEA	890	NC	PHE	NPEZZZZZ	150	E dev-new 890	$32,484	Labor
InfoTech	PEA	891	NC	PHE	NPEZZZZZ	150	E dev comp apps enh 891	$27,287	Labor
InfoTech	PEA	895	NC	PHE	NPEZZZZZ	150	E mainframe 895	$10,395	Labor
InfoTech	PEA	896	NC	PHE	NPEZZZZZ	150	E LAN 896	$20,790	Labor
InfoTech	PEA	897	NC	PHE	NPEZZZZZ	150	E desktop-bus 897	$11,694	Labor
InfoTech	PEA	898	NC	PHE	NPEZZZZZ	150	E desktop-tech 898	$9,096	Labor
InfoTech	PEA	901	NC	PHE	NPEZZZZZ	150	E provide IT cust asst 901	$10,395	Labor
InfoTech	PEA	901	NC	PHE	NPEZZZZZ	150	I provide IT cust asst 901	$44,648	Labor
InfoTech	PEC	701	NC	PHE	NPEZZZZZ	150	TC Dev Mnge Fcst 701	$12,234	Labor
InfoTech	PEC	721	NC	PHE	NPEZZZZZ	150	TC Dev Meas & Anl Perf 721	$41,673	Labor
InfoTech	PEC	840	NC	PHE	NPEZZZZZ	150	TC Admin Oth Procur Pgm 840	$6,117	Labor
InfoTech	PEC	842	NC	PHE	NPEZZZZZ	150	I order mat'ls equip-clrg 842	$9,757	Labor
InfoTech	PEC	844	NC	PHE	NPEZZZZZ	150	I prepare contracts-clrg 844	$47,900	Labor
InfoTech	PEC	844	NC	PHE	NPEZZZZZ	150	TC prep/mge contracts-clrg 844	$24,468	Labor
InfoTech	PEC	901	NC	PHE	NPEZZZZZ	150	FS IT cust asst 901	$51,605	Labor
InfoTech	PEC	901	NC	PHE	NPEZZZZZ	150	TC provide it customer assistance-clrg 901	$295,533	Labor
InfoTech	PEC	901	NC	PHE	NPEZZZZZ	150	I provide IT cust asst-clrg 901	$183,913	Labor
InfoTech	PEC	965	NC	PHE	NPEZZZZZ	150	FS dev mng fcst 701	$17,367	Labor
InfoTech	PEC	966	NC	PHE	NPEZZZZZ	150	FS maint rel 721	$8,435	Labor
InfoTech	PEC	967	NC	PHE	NPEZZZZZ	150	FS Org Dev Strat 722	$8,435	Labor
InfoTech	PED	730	NC	PHE	NPEZZZZZ	150	TC new tech 730	$18,351	Labor
InfoTech	PED	785	NC	PHE	NPEZZZZZ	150	FS Plan Emp Trng & Dev 785	$8,435	Labor
InfoTech	PED	789	NC	PHE	NPEZZZZZ	150	TC attend training 789	$55,436	Labor
InfoTech	PED	890	NC	PHE	NPEZZZZZ	150	TC develop comp apps-new 890	$221,746	Labor
InfoTech	PED	891	NC	PHE	NPEZZZZZ	150	FS develop comp apps-enh 891	$76,911	Labor
InfoTech	PED	891	NC	PHE	NPEZZZZZ	150	TC develop comp apps-enhanced 891	$1,532,721	Labor
InfoTech	PED	901	NC	PHE	NPEZZZZZ	150	TC Prov IT Cust Assist 901	$18,351	Labor
InfoTech	PEI	895	NC	PHE	NPEZZZZZ	150	FS oper & main mainframe 895	$13,894	Labor
InfoTech	PEI	895	NC	PHE	NPEZZZZZ	150	BUOC oper & main mainframe 895	$216,509	Labor
InfoTech	PEI	895	NC	PHE	NPEZZZZZ	150	TCS oper & main mainframe 895	$63,476	Labor

SEE HOURS/ EMPLOYEES ON WORKPAPER B-4

B-3

9:12AM

FY05 4 RA	Expense Category
2,391	Labor
6,147	Labor
0,561	Labor
3,611	Labor
6,225	Labor
5,239	Labor
2,253	Labor
4,056	Labor
4,466	Labor
0,323	Labor
1,613	Labor
0,645	Labor
3,932	Labor
7,229	Labor
7,063	Labor
4,466	Labor
4,466	Labor
5,352	Labor
0,645	Labor
1,041	Labor
1,613	Labor
6,906	Labor
3,932	Labor
4,393	Labor
2,500	Materials
9,404	Materials
4,000	Materials
7,000	Materials
1,500	Materials
7,200	Materials
4,000	Materials
5,604	Materials

BASED on HISTORY

Version: Mar04

Proj #	*EE #	Line item	FY05 Upd04 RA	Expense Category	*RA #	*Act #	*Ind #	*Loc #
IPEZZZZZ	515	UTC Dues 1/2 2004-2005	$3,200	Other	PEA	749	NC	PHE
IPEZZZZZ	520	Travel - mainland	$6,000	Other	PEA	749	NC	PHE
IPEZZZZZ	520	Conferences - Maintain Industry Relations	$9,500	Other	PEA	749	NC	PHE
IPEZZZZZ	521	Travel - mainland meals/ent	$500	Other	PEA	749	NC	PHE
IPEZZZZZ	461	Consultants-applications dev <ED>	$140,000	Other	PEA	891	NC	PHE
IPEZZZZZ	461	Consulting <ED>	$70,000	Other	PEA	901	NC	PHE
IPEZZZZZ	461	Gartner Fees	$35,000	Other	PEA	901	NC	PHE
IPEZZZZZ	522	Travel - neighbor island	$3,800	Other	PEA	901	NC	PHE
IPEZZZZZ	462	PC Software Products - New App Devl & Enhance	$45,000	Other	PED	890	NC	PHE
IPEZZZZZ	463	Software Prod Application Maint - sybase-power bldr	$1,500	Other	PED	891	NC	PHE
IPEZZZZZ	462	Mcafee license <EI>	$90,000	Other	PEI	896	NC	PHE
IPEZZZZZ	570	Network data circuits <ES>	$150,000	Other	PEI	896	NC	PHE
IPEZZZZZ	462	Misc software & Verisign @$3K <EC>	$8,500	Other	PEI	897	NC	PHE
IPEZZZZZ	462	Remedy's Change Management 2005B Add	$90,000	Other	PEI	897	NC	PHE
IPEZZZZZ	570	HECO trunks <ES>	$178,800	Other	PEI	900	NC	PHE
IPEZZZZZ	900	Expanet & Koolau & generator maint <EI>	$349,713	Other	PEI	915	NC	PHE
			$1,181,513	Other				
IPEZZZZZ	501	Education & Training	$50,000	Outside Svcs	PEA	789	NC	PHE
IPEZZZZZ	501	Middleware Maintenance	$55,200	Outside Svcs	PED	891	NC	PHE
IPEZZZZZ	501	Bell&Howell transformer/ Grp 1 Cd 1 SW Maintenance	$32,900	Outside Svcs	PED	891	NC	PHE
IPEZZZZZ	501	Safety shoes <Eo>	$1,000	Outside Svcs	PEI	795	NC	PHE
IPEZZZZZ	501	IBM laser printers <Eo>	$79,263	Outside Svcs	PEI	895	NC	PHE
IPEZZZZZ	501	Mainframe hardware maintenance <Eo>	$193,015	Outside Svcs	PEI	895	NC	PHE
IPEZZZZZ	501	UPS & generator maintenance <Eo>	$33,600	Outside Svcs	PEI	895	NC	PHE
IPEZZZZZ	501	CPU (Z800 2066 OC1) Lease <Eo>	$156,516	Outside Svcs	PEI	895	NC	PHE
IPEZZZZZ	501	Disaster Recovery for Enterprise Server < Eo>	$65,052	Outside Svcs	PEI	895	NC	PHE
IPEZZZZZ	501	Mainframe Software <Eo>	$528,261	Outside Svcs	PEI	895	NC	PHE
IPEZZZZZ	501	IBM Software <Eo>	$393,384	Outside Svcs	PEI	895	NC	PHE
IPEZZZZZ	501	HEI Fees for Internet (2004 contains increm incr only)	$82,706	Outside Svcs	PEI	895	NC	PHE
IPEZZZZZ	501	HEI Fees for Spam (Big Fish) Filtering Charges	$30,000	Outside Svcs	PEI	895	NC	PHE
IPEZZZZZ	501	MS premier support fees <EI>	$141,000	Outside Svcs	PEI	896	NC	PHE
IPEZZZZZ	501	Network Equipment Maintenance <EI>	$250,000	Outside Svcs	PEI	896	NC	PHE

BASED ON HISTORY

NEW 2005 REQUIREMENT

BASED ON HISTORY

BASED ON HISTORY

Dept	*RA #	*Act #	*Ind #	*Loc #	*Proj #	*EE #	Line item		FY05 Upd04 RA	Expense Category	
InfoTech	PEI	896	NC	PHE	NPEZZZZZ	501	10 ISDN Phones		$4,800	Outside Svcs	BASED on HISTORY
InfoTech	PEI	897	NC	PHE	NPEZZZZZ	501	MEA for HECO	<EC>	$311,000	Outside Svcs	
InfoTech	PEI	897	NC	PHE	NPEZZZZZ	501	PC maintenance	<EI>	$374,400	Outside Svcs	
InfoTech	PEI	898	NC	PHE	NPEZZZZZ	501	EFMS maint (Intergraph)	<EI>	$275,000	Outside Svcs	
InfoTech	PEI	900	NC	PHE	NPEZZZZZ	501	Generator propane	<EI>	$540	Outside Svcs	
InfoTech	PEI	900	NC	PHE	NPEZZZZZ	501	Moves, adds, chgs	<EI>	$6,000	Outside Svcs	
InfoTech	PEI	900	NC	PHE	NPEZZZZZ	501	Long Distance Charges	<ES>	$20,000	Outside Svcs	
InfoTech	PEI	900	NC	PHE	NPEZZZZZ	501	Directory Listing	<EI>	$7,200	Outside Svcs	
InfoTech									$3,090,837	Outside Svcs	
InfoTech	PEA	901	NC	PHE	NPEZZZZZ	301	Car pools		$1,260	Transportation	BASED on HISTORY
InfoTech									$1,260	Transportation	
									$9,093,607		

CA-IR-2
DOCKET NO. 04-0113
HECO T-16
ATTACHMENT 8
PAGE 17 OF 38

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HOURS / EMPLOYEES - "NC" CHARGES

12/22/2004 » budget manager: PR110H NPUpd - Det... 1:06PM

*R...	*Ac...	*Lo...	*In...	*Proj #	*E...	*Lbr Class	Line item	FY05 Upd04 RA (HOURS)	EMPLOYEE
PEA	730	PHE	NC	NPEZZ...	150	__E	E res new tech 730	144	
PEA	890	PHE	NC	NPEZZ...	150	__E	E dev-new 890	600	
PEA	891	PHE	NC	NPEZZ...	150	__E	E dev comp apps enh 891	504	
PEA	895	PHE	NC	NPEZZ...	150	__E	E mainframe 895	192	
PEA	896	PHE	NC	NPEZZ...	150	__E	E LAN 896	384	
PEA	897	PHE	NC	NPEZZ...	150	__E	E desktop-bus 897	216	
PEA	898	PHE	NC	NPEZZ...	150	__E	E desktop-tech 898	168	
PEA	901	PHE	NC	NPEZZ...	150	__E	E provide IT cust asst 901	192	
PEA							ITS CHIEF INFORMATION OFFICER	2,400	1
PEA	777	PHE	NC	NPEZZ...	150	__I	I process payroll 777	96	
PEA	901	PHE	NC	NPEZZ...	150	__I	I provide IT cust asst 901	1,812	
PEA							ITS SECRETARY	1,908	1
PEC	901	PHE	NC	NPEZZ...	150	__FS	FS IT cust asst 901	1,248	
PEC	965	PHE	NC	NPEZZ...	150	__FS	FS dev mng fcst 701	420	
PEC	966	PHE	NC	NPEZZ...	150	__FS	FS maint rel 721	204	
PEC	967	PHE	NC	NPEZZ...	150	__FS	FS Org Dev Strat 722	204	
PEC							DIRECTOR - CUSTOMER CARE	2,076	1
PEC	842	PHE	NC	NPEZZ...	150	__I	I order mat'ls equip-clrg 842	396	
PEC	844	PHE	NC	NPEZZ...	150	__I	I prepare contracts-clrg 844	1,944	
PEC	901	PHE	NC	NPEZZ...	150	__I	I provide IT cust asst-clrg 901	7,464	
PEC							SPECIALISTS	9,804	5
PEC	701	PHE	NC	NPEZZ...	150	__TC	TC Dev Mnge Fcst 701	384	
PEC	721	PHE	NC	NPEZZ...	150	__TC	TC Dev Meas & Anl Perf 721	1,308	
PEC	840	PHE	NC	NPEZZ...	150	__TC	TC Admin Oth Procur Pgm 840	192	
PEC	844	PHE	NC	NPEZZ...	150	__TC	TC prep/mge contracts-clrg 844	768	
PEC	901	PHE	NC	NPEZZ...	150	__TC	TC provide it customer assistance-clrg...	9,276	
PEC							CONSULTANTS / ANALYSTS	11,928	6
PED	785	PHE	NC	NPEZZ...	150	__FS	FS Plan Emp Trng & Dev 785	204	
PED	891	PHE	NC	NPEZZ...	150	__FS	FS develop comp apps-enh 891	1,860	
PED							DIRECTOR - DEVELOPMENT SERVICES	2,064	1
PED	730	PHE	NC	NPEZZ...	150	__TC	TC new tech 730	576	
PED	789	PHE	NC	NPEZZ...	150	__TC	TC attend training 789	1,740	
PED	890	PHE	NC	NPEZZ...	150	__TC	TC develop comp apps-new 890	6,960	
PED	891	PHE	NC	NPEZZ...	150	__TC	TC develop comp apps-enhanced 891	48,108	
PED	901	PHE	NC	NPEZZ...	150	__TC	TC Prov IT Cust Assist 901	576	
PED							LEAD/ANALYSTS/SPECIALISTS	57,960	30
PEI	895	PHE	NC	NPEZZ...	150	__BUOC	BUOC oper & main mainframe 895	9,120	
PEI							OPERATORS	9,120	5
PEI	895	PHE	NC	NPEZZ...	150	__FS	FS oper & main mainframe 895	336	
PEI	896	PHE	NC	NPEZZ...	150	__FS	FS oper & main LAN 896	1,116	
PEI	897	PHE	NC	NPEZZ...	150	__FS	FS oper & main desktop 897	780	
PEI							DIRECTOR - INFRASTRUCTURE & OPERATIONS	2,232	1
PEI	896	PHE	NC	NPEZZ...	150	__I	I oper & main LAN 896	2,052	

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12/22/2004 » budget manager: PR110H NPUpd - Det... 1:06PM

*R...	*Ac...	*Lo...	*In...	*Proj #	*E...	*Lbr Class	Line item	FY05 Upd04 RA (HOURS)	EMPLOYEE
PEI	897	PHE	NC	NPEZZ...	150	__I	I oper & maint desktop 897	1,836	
PEI	900	PHE	NC	NPEZZ...	150	__I	I op desk top offc telecom 900	1,788	
PEI							SPECIALISTS/COORDINATOR	5,676	3
PEI	895	PHE	NC	NPEZZ...	150	__TC	TC oper & main mainframe 895	7,608	
PEI	896	PHE	NC	NPEZZ...	150	__TC	TC oper & main LAN 896	13,296	
PEI	897	PHE	NC	NPEZZ...	150	__TC	TC oper & main desktop 897	3,648	
PEI							LEAD/ADMINISTRATOR/ANALYSTS	24,552	12
PEI	895	PHE	NC	NPEZZ...	150	__TCS	TCS oper & main mainframe 895	2,028	
PEI							SUPERVISOR	2,028	1
PEP	700	PHE	NC	NPEZZ...	150	__FS	FS dev & adm bus plans 700	108	
PEP	722	PHE	NC	NPEZZ...	150	__FS	FS org dev strat 722	216	
PEP	730	PHE	NC	NPEZZ...	150	__FS	FS rsrch new technology 730	1,380	
PEP	765	PHE	NC	NPEZZ...	150	__FS	FS empl pol prac proc 765	108	
PEP	785	PHE	NC	NPEZZ...	150	__FS	FS performance appraisals 785	108	
PEP	906	PHE	NC	NPEZZ...	150	__FS	FS telecom-man, engr, design 906	216	
PEP							DIRECTOR-PROJECT & BUS MGT	2,136	1
PEP	700	PHE	NC	NPEZZ...	150	__TC	TC dev & adm bus plans 700	324	
PEP	701	PHE	NC	NPEZZ...	150	__TC	TC dev & mg fcst 701	1,620	
PEP	722	PHE	NC	NPEZZ...	150	__TC	TC org dev strat 722	648	
PEP	730	PHE	NC	NPEZZ...	150	__TC	TC research new tech 730	2,424	
PEP	789	PHE	NC	NPEZZ...	150	__TC	TC attend training - local 789	168	
PEP	890	PHE	NC	NPEZZ...	150	__TC	TC develop apps - new 890	648	
PEP	891	PHE	NC	NPEZZ...	150	__TC	TC maintain apps - enhances 891	6,624	
PEP	896	PHE	NC	NPEZZ...	150	__TC	TC op and maintain LAN 896	1,620	
PEP	906	PHE	NC	NPEZZ...	150	__TC	TC plan the Sys Telecom 906	2,100	
PEP							LEAD	16,176	9
								150,060	77

B-4

PROJECT "NC" CHARGES

FROM: PROJECT FILE
INDICATOR = NC

4/20/2004 » budget manager: PR9100-P: Summa... 11:34AM

*Project #	Project	*M-Proj #	Curr Upd New Total $	Proj to Date Act $	FY05 UPDATE04
P0000040	EFMS Program	P0000040	$3,780,000	0	$800,000
		R0003012	$25,234	$25,234	0
		R0003621	$79,981	$79,981	0
		R0003624	$65,116	$65,116	0
		R0003625	$168,320	$168,320	0
		R0003627	-$14,583	-$14,583	0
		R0003628	$31,662	$31,662	0
		R0004779	$35,110	$35,110	0
		R0004780	$13,263	$13,263	0
		R0004884	$0	$0	0
		R0004885	$63,305	$63,305	0
		R0004886	$38,964	$38,964	0
		R0004887	$38,964	$38,964	0
		R0004888	$38,964	$38,964	0
		R0005500	$12,188	$12,188	0
		R0005749	$28,100	$28,100	0
		R0006579	$54,938	$54,938	0
		R0006598	$26,880	$26,880	0
		R0009382	$4	$4	0
		R0009383	$7,486	$7,486	0
			$4,493,893	$713,893	$800,000
P0000427	e-Bus HECOcom Proje...		$24,827	0	$18,300
		P0000427	$2,721,233	$50,233	$740,000
			$2,746,060	$50,233	$758,300
P0000868	Middleware Implementa...		$50,311	0	$7,842
		P0000868	$425,727	0	$55,771
			$476,039	0	$63,613
			$7,715,992	$764,126	$1,621,913

C

HECO IT Costing Estimates for 2005-2006 for HELCO

HELCO - IT COSTING SYSTEM DIRECT CHARGE

DIRECT CHARGES

Dist.	Project #	WO #		Account Code					Estimate 2005	Estimate 2006	
HELC			H9P	700	HEL	NE	NHAPRESI	451	1,143	1,143	
HELC			HAA	701	HEL	NE	NHAZZZZZ	451	1,714	1,714	
HELC			HAA	818	HEL	NE	NHAZZZZZ	451	1,714	1,714	
HELC			HAC	818	HEL	NE	NHAZZZZZ	451	3,727	3,727	
HELC			HAK	604	HAK	NE	NHAZZZZZ	451	5,407	5,407	
HELC			HAP	817	HEL	NE	NHAZZZZZ	451	2,285	2,285	
HELC			HDA	965	HED	NC	NHDZZZZZ	451	7,013	7,013	
HELC			HDC	603	HAH	NE	NHDZZZZZ	451	15,328	15,328	
HELC			HDR	455	HED	NC	NHDZZZZZ	451	3,428	3,428	
HELC			HDR	600	HAH	NE	NHDZZZZZ	451	3,428	3,428	
HELC			HGA	211	ANS	NS	NHGZZZZZ	451	3,620	3,620	
HELC			HNA	775	HEL	NE	NHNZZZZZ	451	1,299	1,299	
HELC			HNL	928	HEL	NE	NHNZZZZZ	451	1,517	1,517	
HELC		CS000024	HCS	112	HEL	NE	NHCZZZZZ	451	6,040	6,040	
HELC		CS000101.	HCE	750	HEL	NE	NHCZZZZZ	451	1,143	1,143	
HELC		CS000274	HAW	604	HEL	NE	NHAZZZZZ	451	8,448	8,448	
HELC		CS000317	HAK	604	HAK	NE	NHAZZZZZ	451	17,470	17,470	
HELC		CS000347	HAS	604	HAH	NE	NHAZZZZZ	451	32,863	32,863	
HELC		CS000431	HCB	711	HEL	NE	H0000004	451	3,802	3,802	
HELC		EE000629	HWA	408	HED	NC	NHWZZZZZ	451	49,364	49,364	
HELC		FI000043	HAC	818	HEL	NE	NHAZZZZZ	451	6,186	6,186	
HELC		HR000258	HNP	778	HEL	NE	NHNZZZZZ	451	30,450	30,450	FBF App labor
HELC		HR000259	HNP	779	HEL	NE	NHNZZZZZ	451	1,800	1,800	FBH App labor
HELC		HR000260	HNP	779	HEL	NE	NHNZZZZZ	451	600	600	FBP App labor
HELC		HR000261	HNP	776	HEL	NE	NHNZZZZZ	451	450	450	FBS App labor
HELC		HR000262	?	?	?	?	?	451	7,500	7,500	FCC App labor
HELC		HR000264	?	?	?	?	?	451	600	600	FP App labor
HELC	C0000929		HCI	714	HEL	NE	H0000002	451	5,588	5,588	
HELC	C0000939		HCI	714	HEL	NE	H0000001	451	2,411	2,411	
							TOTAL		226,338	226,338	

XA

INTERCOMPANY BILLABLE (ICB) CHARGES

Dist.	Project #	WO #		Account Code					2005	2006	
HECO		HR000238	PFC	775	HEL	NE	NPFZZZZZ	451	2,574	2,574	PFC Desktop
							TOTAL		2,574	2,574	

D

Murakami, Blane

From: Inouye, Juliane
Sent: Tuesday, April 20, 2004 1:34 PM
To: Murakami, Blane
Subject: FW: 2005-2006 ITCosting Estimates for HELCO

From: Inouye, Juliane
Sent: Tuesday, March 16, 2004 10:16 AM
To: Fujioka, Paul
Cc: Young, Patti; Tobara, Bryce
Subject: 2005-2006 ITCosting Estimates for HELCO

Paul,

Attached are HECO's ITS Costing Estimates for 2005 and 2006. As in the past, all estimates except for those marked "App Labor" are based on last year's actual charges. The App labor estimates are projections. Note that although most Benefits and Compensation charges were App labor charges are now being direct charged, one charge will continue to be processed through intercompany billing.

In addition, completed Inercompany Service Forms for Records Management and Microsoft MEA are being mailed to you today.

Please feel free to call me if you have any questions.

Thank you,

Juliane Inouye
HECO - ITS Dept.
ph. 808-543-7135

HECO IT Costing Estimates for 2005-2006 for MECO

MECO - IT COSTING SYSTEM DIRECT CHARGE

DIRECT CHARGES

Dist.	Project #	WO #		Account Code					Estimate 2005	Estimate 2006	
MECO			M9P	700	MAU	NE	NMAZZZZZ	451	2,439	2,439	
MECO			MAA	612	MAU	NE	NMAZZZZZ	451	1,143	1,143	
MECO			MAA	818	MAU	NE	NMAZZZZZ	451	1,105	1,105	
MECO			MAB	612	MAU	NE	NMAZZZZZ	451	3,428	3,428	
MECO			MAG	612	MAU	NE	NMAZZZZZ	451	1,439	1,439	
MECO			MCT	604	MAM	NE	NMCZZZZZ	451	4,571	4,571	
MECO			MDK	620	MAU	NE	NMDZZZZZ	451	1,615	1,615	
MECO			MDM	603	MAU	NE	NMDZZZZZ	451	8,745	8,745	
MECO			MDR	618	MAU	NE	NMDZZZZZ	451	13,042	13,042	
MECO			MGA	899	NST	NC	NMGZZZZZ	451	2,409	2,409	
MECO			MSP	778	MAU	NE	NMSZZZZZ	451	1,887	1,887	
MECO			MWA	901	MAU	NC	NMWZZZZZ	451	10,847	10,847	
MECO			MWC	600	MAU	NC	NMWZZZZZ	451	2,285	2,285	
MECO			MWP	600	MAU	NC	NMWZZZZZ	451	19,426	19,426	
MECO			MWS	600	MAU	NC	NMWZZZZZ	451	3,428	3,428	
MECO		CS000027	MCN	112	MAU	NE	NMCZZZZZ	451	26,282	26,282	
MECO		CS000096	MCM	610	MAU	NE	NMCZZZZZ	451	3,132	3,132	
MECO		CS000153	MCA	604	MAU	NE	NMCZZZZZ	451	11,085	11,085	
MECO		CS000158	MCR	604	MAU	NE	NMCZZZZZ	451	17,140	17,140	
MECO		HR000132	MSP	779	MAU	NE	NMSZZZZZ	451	620	620	FP App labor
MECO		HR000133	MSP	775	MAU	NE	NMSZZZZZ	451	7,500	7,500	FCC App labor
MECO		HR000135	MSP	778	MAU	NE	NMSZZZZZ	451	31,262	31,262	FBF App labor
MECO		HR000144	MSP	779	MAU	NE	NMSZZZZZ	451	1,856	1,856	FBH App labor
MECO		HR000199	MSP	776	MAU	NE	NMSZZZZZ	451	462	462	FBS App labor
MECO		HR000232	MSP	779	MAU	NE	NMSZZZZZ	451	620	620	FBP App labor
							TOTAL		177,768	177,768	

YA

INTERCOMPANY BILLABLE (ICB) CHARGES

Dist.	Project #	WO #		Account Code					2005	2006	
HECO		HR000240	PFC	775	HEL	NE	NPFZZZZZ	451	2,574	2,574	PFC Desktop
							TOTAL		2,574	2,574	

D-

Murakami, Blane

From: Inouye, Juliane
Sent: Tuesday, April 20, 2004 1:34 PM
To: Murakami, Blane
Subject: FW: 2005-2006 ITCosting Estimates for MECO

From: Inouye, Juliane
Sent: Tuesday, March 16, 2004 10:24 AM
To: Matsunaga, Lyle
Cc: Matsumura, Joyce; Young, Patti; Tobara, Bryce
Subject: 2005-2006 ITCosting Estimates for MECO

Lyle,

Attached are our ITS Costing Estimates for 2005 and 2006. As in the past, all estimates except for those marked "App Labor" are based on last year's actual charges. The App labor estimates are projections. Note that although most Benefits and Compensation charges were App labor charges are now being direct charged, one charge will continue to be processed through intercompany billing.

Completed Intercompany Service forms for Microsoft MEA and Customer Service (CB) are being mailed to you. We also completed for and sent IS forms to Monica Lynch and Wendy Nathan (they requested that their forms be sent directly to them) One of Wendy's forms is for the ICB charge ($2,574/yr) shown in the attached spreadsheet.

Please feel free to call me if you have any questions.

Thank you,

Juliane Inouye
HECO - ITS Dept.
ph. 808-543-7135

NON-ITS PROJECT - EXPENSE ELEMENT 451 CHARGE

FROM LINDA YAMAMOTO

*Project #	Project	*M-Proj #	ProjMgrOrEngr	*RA #	*Ind #	*EE #	FY05	FY05 Adj
P0000318	Project Ellipse	P0000318	Noda, R	PEZ	BE	451	-	
P0000318	Project Ellipse	P0000318	Noda, R	PEZ	NE	451	-	
P0000318							-	-
P0000350	Field Service System Replacement	P0000350	Oda, W	PEZ	NI	451	-	
P0000350							-	-
P0000502	Waiau Minor Gen Addns	P0000502	Nakano, W	PEZ	NI	451	48	
P0000502							48	2,400
P0000503	Ward Ave Minor Addns	P0000503	Nakano, W	PEZ	NI	451	96	
P0000503							96	4,800
P0000504	King St Minor Addns	P0000504	Nakano, W	PEZ	NI	451	48	
P0000504							48	2,400
P0000571	CIS Replacement	P0000571	Hull, Thomas	PEZ	BD	451	78,813	
P0000571	CIS Replacement	P0000571	Hull, Thomas	PEZ	BE	451	23,037	
P0000571	CIS Replacement	P0000571	Hull, Thomas	PEZ	ND	451	172,987	
P0000571	CIS Replacement	P0000571	Hull, Thomas	PEZ	NE	451	50,563	
P0000571							325,400	325,400
P0000825	C&M Renovation	P0000825	Nakano, W	PEZ	NI	451	120	
P0000825							120	6,000
P0000826	ITS Renovation	P0000826	Nakano, W	PEZ	NI	451	-	
P0000826							-	-
P0000851	Purchasing Warehouse Renov	P0000851	Nakano, W	PEZ	NI	451	-	
P0000851							-	-
P0000878	Check Processing Upgrade	P0000878	Ejercito, A	PEZ	NE	451	-	
P0000878							-	-
00896	Finance Plus Replacement		Takamura, J	PEZ	NE	451	-	
00896							-	-
P0000907	PLC Market Trial		Nordyke, M	PEZ	NE	451	154,800	
P0000907							154,800	154,800
P0000984	Promote e-Customer Service		Ejercito, A	PCA	NE	451	12,000	
P0000984							12,000	12,000
P0000985	Bill Payment System/ATM Proj		Ejercito, A	PCA	NE	451	6,000	
P0000985	Bill Payment System/ATM Proj		Ejercito, A	PCA	NI	451	-	
P0000985							6,000	6,000
P0000986	GPS (Global Posit. Sys.)		Ejercito, A	PCA	NE	451	4,000	
P0000986	GPS (Global Posit. Sys.)		Ejercito, A	PCA	NI	451	-	
P0000986							4,000	4,000
P0000987	3rd Party Pay Solutions		Ejercito, A	PCA	NE	451	-	
P0000987							-	-
P0000988	ACCESS (solutions to issues)		Ejercito, A	PCA	NE	451	10,000	
P0000988	ACCESS (solutions to issues)		Ejercito, A	PCA	NI	451	-	
P0000988							10,000	10,000
P0001010	HR/Benefits/Comp Suite		Price, J	PEZ	BE	451	46,560	
P0001010	HR/Benefits/Comp Suite		Price, J	PEZ	NE	451	100,290	
P0001010							146,850	146,850
Security11	Temp Proj Security11_		Uemura, E	PEZ	NE	451	12,700	
Security11_	(P0001011)						12,700	12,700
00828	Outage Management System	P0000828	Naito, C	PEZ	ND	451	16,494	
00828	Outage Management System	P0000828	Naito, C	PEZ	NE	451	-	
P0000828	Outage Management System	P0000828	Naito, C	PEZ	NI	451	5,164	
P0000828	Outage Management System	P0000828					21,658	21,658
								709,008

XA

E

Murakami, Blane

From: Yamamoto, Linda
Sent: Thursday, April 15, 2004 12:43 PM
To: Murakami, Blane
Cc: Young, Patti; Shimabukuro, Gail
Subject: RE: ITS cost reports aka EE451 reports

)415 ITS Upd Costs EDProj.ASC)415 ITS Upd Costs NEDProj.ASC...

Attached are your reports for the Update.

-----Original Message-----
From: Murakami, Blane
Sent: Thursday, April 15, 2004 11:08 AM
To: Yamamoto, Linda
Cc: Young, Patti; Shimabukuro, Gail
Subject: RE: ITS cost reports aka EE451 reports

Would you send me an update of the ascii files below (based on Pillar inputs submitted on April 12). I would like to

2005 INTERCOMPANY BILLINGS

INTERCOMPANY BILLABLE PROJECTED FROM 2003 ACTUALS

*RA #	*Act #	*Loc #	*Ind #	*Project #	*EE #	Line Item	FY05
PEA	965	HEL	BE	NPEZZZZZ	521	H9P HELCO File Audit Rec ...	$180.00
PEA	965	HEL	BE	NPEZZZZZ	522	H9P HELCO File Audit Rec ...	$580.00
PEA	965	MAU	BE	NPEZZZZZ	521	MSA MECO File Audit Rec ...	$180.00
PEA	965	MAU	BE	NPEZZZZZ	522	MSA MECO File Audit Rec ...	$580.00
PED	711	HEL	BE	NPEZZZZZ	452	HEL billable Dev Sup for HE...	$2,000.00
PEI	895	FCU	BE	NPEZZZZZ	451	HECO Federal Credit Union	$9,600.00
PEI	895	HEI	BE	NPEZZZZZ	451	HEI Stock Transfer Data Ce...	$23,376.00
PEI	897	HEL	BE	NPEZZZZZ	501	HAC MEA for HELCO ...	$60,000.00
PEI	897	MAU	BE	NPEZZZZZ	501	MAA MEA for MECO ...	$49,000.00
PEI	900	HEI	BE	NPEZZZZZ	501	HEI telecomm-HEI ...	$9,000.00
PEZ	700	RHI	BE	NPASVP7Z	451	RHI Billable	$1,070.00
PEZ	775	HEI	BE	NPFZZZZZ	451	PFC HEI Billable - Empl Co...	$2,544.00
PEZ	775	HEL	BE	NPFZZZZZ	451	PFC HEL Billable - Empl Co...	$2,544.00
PEZ	775	MAU	BE	NPFZZZZZ	451	PFC MAU Billable - Empl C...	$2,544.00
PEZ	776	HEI	BE	NPFZZZZZ	451	PFB - HEI Billable - Ben Pla...	$1,998.00
PEZ	776	HPC	BE	NPFZZZZZ	451	PFB HPC Billable - Ben Pla...	$87.00
PEZ	776	PEC	BE	NPFZZZZZ	451	PFB PEC Billable - Ben Pla...	$174.00
PEZ	778	HEI	BE	NPFZZZZZ	451	PFB HEI Billable - Adm Flex...	$1,045.00
PEZ	778	HPC	BE	NPFZZZZZ	451	PFB HPC Billable - Adm Fle...	$45.00
PEZ	778	PEC	BE	NPFZZZZZ	451	PFB PEC Billable - Adm Fle...	$91.00
PEZ	779	HEI	BE	NPFZZZZZ	451	PFB HEI Billable - Adm Reti...	$1,140.00
PEZ	779	HPC	BE	NPFZZZZZ	451	PFB HPC Billable - Adm Re...	$20.00
PEZ	779	PEC	BE	NPFZZZZZ	451	PFB PEC Billable - Adm Ret...	$40.00
PEZ	817	HEL	BE	NPAZZZZZ	451	HEL Billable	$0.00
PEZ	817	MAU	BE	NPAZZZZZ	451	MAU Billable	$0.00
PEZ	825	HEI	BE	NPKZZZZZ	451	PKT HEI Billable - Manage ...	$2,464.00
PEZ	825	HEL	BE	NPKZZZZZ	451	HEL Billable	$189.00
PEZ	825	MAU	BE	NPKZZZZZ	451	MAU Billable	$189.00
PEZ	826	HEL	BE	NPKZZZZZ	451	HEL Billable	$791.00
PEZ	826	MAU	BE	NPKZZZZZ	451	MAU Billable	$931.00
PEZ	891	HEI	BE	NPEZZZZZ	451	HEI Billable	$1,357.00
PEZ	895	HEL	BE	NPAVP2ZZ	451	P2V HEL Billable - Op & Ma...	$123,036.00
PEZ	895	MAU	BE	NPAVP2ZZ	451	P2V MAU Billable - Op & M...	$123,036.00

(HISTORY)

ITS Department
PEZ Actuals Jan-Dec 2003

2003 INTERCOMPANY BILLABLES

PA	Act	Loc	Ind	Proj	EE	Q1	Q2	Q3	Q4	FY 03	Mo Avg
PEZ	775	HEI	BE	NPFZZZZZ	451	670	637	648	588	2,544	212
PEZ	776	HEI	BE	NPFZZZZZ	451	1,357	416	91	134	1,998	167
PEZ	778	HEI	BE	NPFZZZZZ	451	198	264	176	408	1,045	87
PEZ	779	HEI	BE	NPFZZZZZ	451	400	267	169	305	1,140	95
PEZ	825	HEI	BE	NPKZZZZZ	451	641	616	632	574	2,464	205
PEZ	891	HEI	BE	NPEZZZZZ	451	0	1,357	0	0	1,357	113
PEZ	700	RHI	BE	NPASVP7Z	451	0	13,573	(12,503)	0	1,070	89
PEZ	776	PVT	BE	NPFZZZZZ	451	118	36	0	0	154	13
PEZ	778	PVT	BE	NPFZZZZZ	451	17	23	0	0	40	3
PEZ	779	PVT	BE	NPFZZZZZ	451	21	7	0	0		
PEZ	776	PEC	BE	NPFZZZZZ	451	118	36	0	0		
PEZ	779	PEC	BE	NPFZZZZZ	451	21	7	5	6	40	3
PEZ	776	HPC	BE	NPFZZZZZ	451	59	18	4	3		

Hawaiian Electric Company, Inc.									
Information Technology & Services Department									
PEZ Actuals Jan- Dec 2003									
									Proportions
	RA	Act	Loc	Ind	Project	EE	Jan-Dec 03		
	PEZ	100	PHE	NE	NPSZZZZZ	451	67,746		
		100 Total					67,746		0.7%
	PEZ	102	PHE	NE	NPSZZZZZ	451	13,789		
		102 Total					13,789		0.2%

2003 PEZ ACTUALS
ITS COSTING SYSTEM
ALLOCATIONS

Hawaiian Electric Company, Inc.
Information Technology & Services Department
PEZ Actuals Jan- Dec 2003

	RA	Act	Loc	Ind	Project	EE	Jan-Dec 03		Proportions
	PEZ	331	OAH	NE	NPAVP2ZZ	451	2,584		
		331 Total					2,584		0.0%
	PEZ	333	OAH	NC	**NPRZZZZZ**	451	124,556		
	PEZ	333	OAH	NE	NPAVP2ZZ	451	2,707		
		333 Total					127,263		1.4%
	PEZ	343	OAH	NE	NPAVP2ZZ	451	3,568		
		343 Total					3,568		0.0%
	PEZ	349	OAH	NE	NPAVP2ZZ	451	1,599		
		349 Total					1,599		0.0%
	PEZ	375	OAH	NC	**NPRZZZZZ**	451	165,571		
		375 Total					165,571		1.8%
	PEZ	377	OAH	NE	NPRZZZZZ	451	7,310		
		377 Total					7,310		0.1%

Hawaiian Electric Company, Inc.									
Information Technology & Services Department									
PEZ Actuals Jan- Dec 2003									
									Proportions
	RA	Act	Loc	Ind	Project	EE	Jan-Dec 03		
	PEZ	614	OAH	NE	**NPCZZZZZ**	451	8,400		
		614 Total					8,400		0.1%
	PEZ	616	OAH	NE	**NPCZZZZZ**	451	64,575		
		616 Total					64,575		0.7%
	PEZ	700	PHE	NE	NPAVP7ZZ	451	31,586		
	PEZ	700	PHE	NE	NPAVP3ZZ	451	31,586		

Hawaiian Electric Company, Inc.									
Information Technology & Services Department									
PEZ Actuals Jan- Dec 2003									
									Proportions
	RA	Act	Loc	Ind	Project	EE	Jan-Dec 03		
	PEZ	767	PHE	NE	**NPFZZZZZ**	451	56,408		
		767 Total					56,408		0.6%
	PEZ	775	PHE	NE	NPFZZZZZ	451	17,807		
		775 Total					17,807		0.2%
	PEZ	776	PHE	NE	NPFZZZZZ	451	108,215		

Hawaiian Electric Company, Inc.
Information Technology & Services Department
PEZ Actuals Jan- Dec 2003

RA	Act	Loc	Ind	Project	EE	Jan-Dec 03		Proportions
PEZ	876	PHE	NE	NPJZZZZZ	451	131,933		
	876 Total					131,933		1.4%
PEZ	896	PHE	NE	NPEZZZZZ	451	37,921		
	896 Total					37,921		0.4%
PEZ	899	PHE	NE	NPKZZZZZ	451	0		
	899 Total					0		0.0%
PEZ	907	OAH	NC	NPBZZZZZ	451	17,425		
PEZ	907	OAH	NC	NPEZZZZZ	451	0		
	907 Total					17,425		0.2%
PEZ	916	PHE	NC	**NPRZZZZZ**	451	31,586		
	916 Total					31,586		0.3%
PEZ	926	PDO	NE	NPWZZZZZ	451	10,125		
PEZ	926	PHE	NE	**NPNLZZZZ**	451	40,454		
	926 Total					50,579		0.6%
PEZ	928	PHE	NE	NPNLZZZZ	451	36,205		
	928 Total					36,205		0.4%
PEZ	931	PHE	NE	**NPHZZZZZ**	451	55,593		
	931 Total					55,593		0.6%
PEZ	932	PHE	NE	**NPVZZZZZ**	451	32,741		
	932 Total					32,741		0.4%
PEZ	933	PHE	NE	**NPHZZZZZ**	451	62,201	Wrong corrected	
	933 Total					62,201		0.7%
PEZ	940	PHE	NC	**NPVZZZZZ**	451	70,645		
PEZ	940	PHE	NC	NPEZZZZZ	451	0		
	940 Total					70,645		0.8%
PEZ	950	PHE	NE	**NPHZZZZZ**	451	69,647		
PEZ	950	PHE	NE	**NPKZZZZZ**	451	22,111		
	950 Total					91,758		1.0%
PEZ	951	PHE	NE	NPKZZZZZ	451	31,347		
	951 Total					31,347		0.3%
PEZ	953	PHE	NE	NPFZZZZZ	451	39,058		
	953 Total					39,058		0.4%
PEZ	960	PHE	NE	NPNCZZZZ	451	69,291		
	960 Total					69,291		0.8%
PEZ	965	PHE	NE	NPEZZZZZ	451	18,161		
	965 Total					18,161		0.2%
PEZ	966	PHE	NE	NPEZZZZZ	451	32,137		
	966 Total					32,137		0.4%
PEZ	967	PHE	NE	NPEZZZZZ	451	37,457		
	967 Total					37,457		0.4%
	Grand Total					9,181,900		100.0%

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ITS Department
EFMS and Ebus Allocations

EFMS Allocations		Allocation Basis:	
PEZ 211 WST NC	NPYZZZZZ	62,388	10.8%
PEZ 256 KST NE	NPEZZZZZ	2,964	0.5%
PEZ 256 WST NE	NPEZZZZZ	2,964	0.5%
PEZ 307 OAH NC	NPEZZZZZ	112,644	19.4%
PEZ ## OAH NE	NPEZZZZZ	14,760	2.5%
[illegible]	[illegible]	[illegible]	[illegible]
PEZ 455 OAH NC	NPEZZZZZ	34,152	5.9%
PEZ 455 OAH NE	NPEZZZZZ	3,468	0.6%
PEZ 456 OAH NE	NPEZZZZZ	59,076	10.2%
PEZ 600 OAH NE	NPWZZZZZ	129,948	22.4%
PEZ 907 OAH NC	NPBZZZZZ	17,328	3.0%
PEZ ## PHE NE	NPEZZZZZ	9,636	1.7%
PEZ 931 PHE NE	NPEZZZZZ	17,724	3.1%
Total EFMS		579,696	100.0%

EBusiness Allocations		Allocation Basis:	
PEZ ## PHE NE	NPNEZZZZ	1,767	10.4%
PEZ ## OAH NE	NPNEZZZZ	119	0.7%
PEZ ## OAH NE	NPNEZZZZ	3,607	21.2%
PEZ ## PHE NE	NPNEZZZZ	1,531	9.0%
PEZ ## PHE NE	NPNEZZZZ	-	0.0%
PEZ ## PHE NE	NPNEZZZZ	6,259	36.8%
PEZ ## PHE NE	NPNEZZZZ	3,725	21.9%
EFMS Allocations Total		17,008	100.0%

ALLOCATION BASIS ESTABLISH BY EFMS

PAGES 35-38 NOT USED.

HAWAIIAN ELECTRIC COMPANY
2005 TEST YEAR RATE CASE

TECHNOLOGY DEPARTMENT
NONPROJECT COST DATA

NARUC 9302: MISCELLANEOUS GENERAL EXPENSES-NONLABOR

HECO Renewable Energy Research, Development and Demonstration--$616,500 non-labor

- $249,000 local R&D--this is a placeholder for local research & development (R&D) funding that is used to match the estimated EPRI Tailored Collaboration (TC) funding. Normally, the matching funds are located in the HECO Department O&M budget that will have a 2005 EPRI TC project. Because the 2005 budget was requested in Jan 2004 and the R&D budgets were not determined until the summer of 2004, this placeholder was created. The table below shows the projects that will use the 2005 local R&D monies.

Power Supply Reliability Optimization	$30,000
PlantView Upgrade	$15,000
Probabilistic Load Flow	$30,000
High-Temperature, Low Sag Conductor	$25,000
EPRIsolutions DTCR Trial	$55,000
EPRI Distributed Temperature Sensing Trial	$15,000
Energy Delivery Maintenance Optimization	$27,500
Wind Energy Forecasting	$20,000
Residential End-Use Load Research Program	$37,500
	$255,000

- $50,000 recurring renewable R&D--seed monies for general renewable energy, new technologies, studies, assessment, etc. As an example, the high resolution wind map study (Oahu only) was subcontracted for $28,000. A similar effort for high resolution wind maps for Maui, Molokai and Lanai was about $23,000. A County of Hawaii pumped storage hydroelectric assessment using existing water systems was about $62,000 (inlcudes state cost share of $24,000).
- $300,000 wind initiative--there is State law for utilities to increase the percentage of renewable energy on the electric system. Wind technology is one renewable technology that is mature. HECO recently participated with Department of Business, Economic Development & Tourism and National Renewable Energy Laboratory to develop high resolution wind maps which identified potential areas wind development for the islands. The funds identified would be used to help increase the development of

this technology: siting work, data collection for wind resource verification and confirmation, land use, permits and approvals, etc. As an example, the current Kahe wind monitoring effort has subcontracts for the following efforts listed below. The actual cost could vary if additional analysis and evaluation tasks are added, additional meteorological towers are used, additional accoustic sites are used, etc.

micro-siting, 2 meteorological towers and accoustic data measurement and analysis, feasiblity assessment	$94,400
site identification, approvals, permitting and access/construction issues	$55,600

R&D-He-05

Research & Development - Heco - 2005				
		Standard		
Labor	Labor	Labor		
Resp. Area	Hours	Rate		
NR	1,620	$38.48	$62,337.60	
	1,620		$62,337.60	
		Overhead		
Overheads		Rate		
Payroll Taxes		8.35%	$5,205.19	
Employee Benefits		$8.77/hr	$14,207.40	
Non-Productive Wages		$4.37/hr	$7,079.40	
Corporate Administration		$2.93/hr	$4,746.60	
			$31,238.59	$93,576.19
Non-Labor				
Mainland Travel			$2,000.00	
RE membership, publications, etc.			$15,000.00	
Interisland Travel - YP			$500.00	
			$17,500.00	
Total Cost			$111,076.19	

HAWAIIAN ELECTRIC COMPANY
2005 TEST YEAR RATE CASE

VICE PRESIDENT-CORPORATE EXCELLENCE DEPARTMENT NONPROJECT COST DATA

NARUC 932: ADMIN AND GENERAL MAINTENANCE

NARUC 9302: MISCELLANEOUS GENERAL EXPENSES-NONLABOR

OFFICE SYSTEMS HAWAII, INC.

PROTECTIVE SERVICE AGREEMENT

DATE	TYPE OF AGREEMENT	CUSTOMER ORDER NO.	SHIFT USAGE:
	☐ NEW ☒ RENEW	P.O. 60113	☐ 2ND SHIFT ☐ 3RD SHIFT

CHARGE TO: Hawaiian Electric Co.

SERVICE PERFORMED AT:

ATTENTION: Kaye Lum

STREET ADDRESS: P.O. Box 2750

CITY: Honolulu STATE: Hawaii ZIP: 96840

TERM: One Year FROM: 2-14-04 TO: 2-13-05 AMOUNT: $ 1,708.32

EQUIPMENT UNDER SERVICE

TYPE OF EQUIPMENT	MODEL	SERIAL NUMBER	ZONE	AMOUNT
Lektriever	75000CA	16410	1	820.00
Lektriever	75600090A	16642	1	820.00
				1,640.00
		State Tax		68.32
				1,708.32

OFFICE SYSTEMS HAWAII, INC.
740 MOOWAA STREET, UNIT I
HONOLULU, HAWAII 96817 (808) 841-5051 FAX: (808) 841-4887

Customer's Acceptance—Sign first two copies—Retain original.
Send remaining copies to Office Systems Hawaii, Inc

COMPANY NAME Hawaiian Electric Co., Inc.
BY Kaye Lum
TITLE Executive Secretary DATE 2/26/0

TERMS AND CONDITIONS OF AGREEMENT

UNLIMITED MECHANICAL AND ELECTRONIC FACTORY TRAINED SERVICE WILL BE FURNISHED TO THE CUSTOMER BY OFFICE SYSTEMS HAWAII, INC. FOR THE EQUIPMENT LISTED DURING THE ESTABLISHED BUSINESS HOURS OF OFFICE SYSTEMS HAWAII, INC.: Monday through Friday, excluding holidays. All prices quoted herein for Systems and Microfilm equipment will be used during a standard 40-hour work week of one shift, excluding Saturday, Sunday and holidays. Where equipment is used on a two or three shift basis, the regular pricing of the agreement is to be increased 25% or 50%, respectively, to cover usage only.

THE MAINTENANCE PROVIDED SHALL INCLUDE REGULAR PREVENTIVE MAINTENANCE, CORRECTIVE MAINTENANCE AND PARTS REPLACEMENT AS SET FORTH BELOW.

Preventive maintenance as required shall be performed during established business hours Monday through Friday. This service may be performed in [illegible]

MOTORS, LAMPS, MIRRORS, RUBBER SLEEVES SPONGES, SCREENS AND EXPENDABLE PARTS.

MECHANICAL SERVICE is authorized by the customer to be rendered by Office Systems Hawaii, Inc. to the equipment listed for the period above noted and from year to year thereafter unless this agreement is terminated by either party as herein provided. Either party may terminate this agreement upon written notice to the other party, given not less than thirty (30) days immediately prior to any anniversary date hereof. Office Systems Hawaii, Inc. reserves the right to examine equipment prior to any renewal of this agreement, and in the event the machine(s) require overhauling or rebuilding, an estimate will be submitted for customer's approval before the work is started.

MAXIMUM LIABILITY FOR OFFICE SYSTEMS HAWAII, INC. HEREUNDER SHALL BE AN AMOUNT NOT TO EXCEED THE TOTAL AMOUNT ACTUALLY PAID BY THE CUSTOMER FOR SERVICES DURING THE APPLICABLE TERM

2004 - 2005 Corporate Membership Dues Forecast **

Organization	Jan	Apr	July	Oct	Nov	Grand Total
Better Business Bureau		$2,800.00				
Chamber of Commerce	$22,955.00					
Edison Electric Institute (EEI) - HECO	$256,484.00					
Edison Electric Institute (EEI) - HELCO	$55,674.00					
Edison Electric Insitute (EEI) - MECO	$58,032.00					
Hawaii Employers Council*	$2,860.00	$2,860.00	$2,860.00	$2,860.00		
LAMPAC	$1,500.00					
Western Energy Institute	$20,000.00					
Land Use Research Foundation			$4,000.00		$4,000.00	
Total for 2005	**$417,505.00**	**$5,660.00**	**$6,860.00**	**$2,860.00**	**$4,000.00**	**$436,885.00**

*Per Molly Egged, this is HECO's portion. HEI receives the statement.

** Based on charges incurred in prior years.

0.00 *

22,955.00*+
2,800.00 +
2,860.00 +
2,860.00 +
2,860.00 +
2,860.00 +
1,500.00 +
20,000.00 +
4,000.00 +
4,000.00 +
Total Company Memberships, excl EEI 66,695.00 *