



Enhanced 9-1-1 Board

FY 2018-22 Strategic Budget Plan

Approve by the Enhanced 911 Board 7/13/2017

FY 2018-22 Strategic Budget Plan Highlights

◦ Our cash position will remain positive through FY 2022.				
◦ Legislative Ceiling increase to \$10.2M for FY 2017 was approved.				
◦ Legislative Ceiling increased to \$16.8 M for FY 2018.				
◦ Efforts to pass prepaid mobile phone surcharge fee to continue with the 2018 legislative session.				
◦ CAD upgrades continue for Hawaii PSAP while Maui PSAP to begin CAD upgrade in FY 2018.				
◦ VoIP surcharge fees continue to increase at an accelerated rate.				
◦ Wireless Surcharge fees growing at 1.0%+ per year.				
◦ Multi-Line Telephone System (MLTS) potential revenue not included.				
◦ JTMC Building Completion date slips to December 2017.				
◦ Future APCO/NENA Pacific Forums not budgeted.				
◦ (DIT) Imagery six-year license agreement (\$1.3M) encumbered.				
◦ We will encumber approximately \$4.3M at fiscal yearend 2017.				

SIGNIFICANT EXPENSES:

FY Year(s)	PSAP	ITEMS	AMOUNT	FREQUENCY
2018-19	Oahu	CAD Upgrade	\$ 6,000,000	Nrec
2018	Maui	CAD Upgrade	1,650,000	Nrec
2018-22	Ave/year	HawTel Trunk	1,643,241	Rec
2018-22	Ave/year	MSAG & GIS Database	1,416,802	Rec
2018-22	Ave/year	Imagery License Agreement	769,400	Nrec
2017-18	Oahu	JTMC Related Expenses	930,000	Nrec
2021-22	Hawaii	ADC Buildout	800,000	Nrec
2018-22	Ave/year	DB&F Admin & Rev Assess.	691,404	Rec
2018-22	Ave/year	Training	317,100	Rec
2019	Oahu-HFD	Replacement Server	250,000	Nrec
2019	Oahu-ESD	Replacement Server	250,000	Nrec
2018	Maui	Kihei Build Out	245,000	Nrec
2017-19	Hawaii	Communications CTR Furniture	210,000	Nrec
2018	Maui	Consultant	78,500	Nrec

SUMMARY						
	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022
ITEM						
TRAINING	167,287	387,200	328,700	301,700	301,700	301,700
ADMINISTRATION	1,013,477	1,063,475	1,081,152	1,075,963	1,083,285	1,119,886
NON-RECURRING	473,227	9,321,871	1,118,000	10,000	470,000	400,000
RECURRING	8,545,938	5,873,928	5,534,259	6,012,337	6,526,551	6,700,476
Total	10,199,928	16,646,474	8,062,111	7,400,000	8,381,536	8,522,062
RECURRING EXPENSES (%)	95.4%	44.0%	86.1%	99.9%	94.4%	95.3%
SUMMARY BY Organization						
	FY2017	FY2018	FY2019	FY2020	FY 2021	FY2022
ITEM						
TRAINING	167,287	387,200	328,700	301,700	301,700	301,700
ADMINISTRATION	1,013,477	1,063,475	1,081,152	1,075,963	1,083,285	1,119,886
Oahu PSAP	3,841,585	10,298,520	3,792,649	2,974,649	3,084,851	3,314,851
Maui PSAP	2,379,458	2,652,604	757,604	1,217,657	1,308,663	1,517,438
Hawaii PSAP	1,413,974	1,394,355	1,274,355	984,355	1,738,355	1,378,355
Kauai PSAP	1,384,149	850,320	827,651	845,676	864,682	889,832
Total	10,199,928	16,646,474	8,062,111	7,400,000	8,381,536	8,522,062

Cash Flow Projection	Forecast					
Monthly Rate/User	\$ 0.660	\$ 0.660	\$ 0.660	\$ 0.660	\$ 0.660	\$ 0.660
ITEM	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022
Beginning Cash	19,469,440	22,458,091	22,208,409	24,866,732	27,255,543	29,269,230
Add: Cash Received	785,960					
Wireless	9,088,419	9,114,240	9,205,382	9,297,436	9,390,411	9,390,411
VoIP	1,220,218	1,304,100	1,408,428	1,507,018	1,612,509	1,612,509
Interest	81,776	81,776	81,776	81,776	81,776	81,776
Total Revenue	10,390,413	10,500,116	10,695,586	10,886,230	11,084,696	11,084,696
Budgets	(10,199,928)	(16,646,474)	(8,062,111)	(7,400,000)	(8,381,536)	(8,522,062)
Encumbrances						
Encumbrance Net INCREASE/(DECREASE)	2,012,206	5,896,677	24,847	(1,097,420)	(689,472)	(1,457,363)
Total Net Disburse	(8,187,723)	(10,749,797)	(8,037,264)	(8,497,420)	(9,071,008)	(9,979,425)
Ending Cash	\$ 22,458,091	\$ 22,208,409	\$ 24,866,732	\$ 27,255,543	\$ 29,269,230	\$ 30,374,501
Outstanding Encumbrances	\$ (10,431,442)	(16,328,118)	(16,352,965)	(15,255,545)	(14,566,073)	(13,108,710)
Unencumbered Cash	\$ 12,026,649	\$ 5,880,291	\$ 8,513,767	\$ 11,999,997	\$ 14,703,157	\$ 17,265,791
Reserves (CUM)						
Small Cell Upgrade for 4G to 5G LTE (non recurring)				(2,000,000)	(2,000,000)	(2,000,000)
Project Planning Consultant			(100,000)	(200,000)	(300,000)	(400,000)
NextGen911 (non recurring)				(2,000,000)	(3,000,000)	(4,000,000)
FirstNet Integration (recurring)					(500,000)	(1,000,000)
Cybersecurity		(200,000)	(300,000)	(400,000)	(500,000)	(600,000)
Translation Services for build in for tourism			(25,000)	(50,000)	(75,000)	(100,000)
Disaster Preparedness		(300,000)	(300,000)	(300,000)	(300,000)	(300,000)
Wireless Service Provider Cost Recovery	(200,000)	(200,000)	(200,000)	(200,000)	(200,000)	(200,000)
Subtotal Reserves	(200,000)	(700,000)	(925,000)	(5,150,000)	(6,875,000)	(8,600,000)
Adjusted Unencumbered Cash Flow	11,826,649	5,180,291	7,588,767	6,849,997	7,828,157	8,665,791
ADD Projected Prepaid Surcharge Revenue				600,000	1,800,000	3,000,000
Adjusted Unencumbered Cash Flow (CUM)	\$ 11,826,649	\$ 5,180,291	\$ 7,588,767	\$ 7,449,997	\$ 9,628,157	\$ 11,665,791

New & Emerging Technology Training

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TRAINING	Forecast	FY2018	FY2019	FY2020	FY2021	FY2022
	Total	Total	Total	Total	Total	Total
APCO	21,567	27,500	25,300	26,800	26,800	26,800
HPD	11,259	24,500	24,500	24,500	24,500	24,500
EMS	-	7,000	-	-	-	-
APCO/NENA Pacific Chapter	-	3,500	-	-	-	-
HFD	-	10,500	10,500	10,500	10,500	10,500
911 GTW	11,210	30,000	27,300	27,300	27,300	27,300
HPD	7,918	14,000	10,500	10,500	10,500	10,500
HFD	-	10,500	10,500	10,500	10,500	10,500
NENA/NASNA	30,726	34,700	35,000	35,000	35,000	35,000
HPD	14,948	14,000	14,000	14,000	14,000	14,000
EMS	-	7,000	-	-	-	-
HFD	-	10,500	10,500	10,500	10,500	10,500
Smart911 Summit	-	-	-	-	-	-
HPD	11,018	10,500	10,500	10,500	10,500	10,500
HFD	-	7,000	7,000	7,000	7,000	7,000
APCO New Tech	(2,768)	24,000	24,000	-	-	-
NENA Tech Dev	-	3,500	3,600	3,600	3,600	3,600
Pictometry Conf	-	7,000	7,200	7,200	7,200	7,200
O/T for CAD Syst Train-JTMC Setup (HFD)	-	45,000	25,000	25,000	25,000	25,000
O/T for CAD Admin/Mapflex/Text-2-911 (HPD)	-	30,000	20,000	20,000	20,000	20,000
Comm Center Mgr Conf	14,798	-	-	-	-	-
Navigator Conference (EDS)	-	8,000	8,000	3,500	3,500	3,500
Live Hexagon Conference	6,660	10,500	10,800	10,800	10,800	10,800
Spillman User Conf	3,184	24,500	21,000	21,000	21,000	21,000
TriCom Training	8,928	-	-	-	-	-
IWCE-HFD	5,968	3,500	3,500	3,500	3,500	3,500
Tritech	-	-	-	-	-	-
HFD	-	10,000	10,000	10,000	10,000	10,000
EMS	12,635	10,000	10,000	10,000	10,000	10,000
Futureview	5,784	-	-	-	-	-
APCO/NENA Colorado State Conference	3,453	-	-	-	-	-
	-	-	-	-	-	-
Totals	167,287	387,200	328,700	301,700	301,700	301,700

ADMINISTRATION	FORECAST					
	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022
ITEM	ADMIN	ADMIN	ADMIN	ADMIN	ADMIN	ADMIN
Executive Dir. Services	209,083	214,963	222,487	230,274	238,333	246,675
Office Supplies	5,758	6,000	6,000	6,000	6,000	6,000
Office Furnishings & Equipment	(11)	7,500			7,500	
Exec Director IntraState Travel	639	2,000	2,500	2,000	2,500	2,000
Meeting Luncheon Expense	188	500	500	500	500	500
Phone Charges	1,316	1,200	1,200	1,200	1,200	1,200
Electronic Signature S/W	240	260	280	280	300	280
Annual Audit Expense	13,000	13,000	14,000	14,000	14,000	14,000
Bank Charges	211	50	50	50	50	50
Board & Committee Travel	36,658	37,758	38,891	41,415	42,657	43,937
DB&F Assessments						
Administrative Assess	152,000	176,400	176,400	176,400	176,400	176,400
Revenue Assessment	515,004	515,004	515,004	515,004	515,004	515,004
Subtotal DB&F Assessments	667,004	691,404	691,404	691,404	691,404	691,404
NASNA Dues	500	500	500	500	500	500
Parking Permits	500	400	400	400	400	400
WSP Cost Recovery	77,940	77,940	77,940	77,940	77,940	77,940
ADA Compliance	-	-	-	-	-	-
AG Legal Fees	-		25,000			25,000
911 Public Education - Text-2-911	452	10,000		10,000		10,000
Total	1,013,477	1,063,475	1,081,152	1,075,963	1,083,285	1,119,886

Administrative Travel

TRAINING	Forecast	FY2018	FY2019	FY2020	FY2021	FY2022
	ADMIN	ADMIN	ADMIN	ADMIN	ADMIN	ADMIN
APCO	2,920	6,500	7,500	9,000	9,000	9,000
911 GTW	2,810	9,000	6,000	6,000	6,000	6,000
NENA/NASNA	7,821	6,700	6,700	6,700	6,700	6,700
Totals	13,551	22,200	20,200	21,700	21,700	21,700

	Forecast					
NONRECURRING	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022
ITEM						
<i>CAD Upgrade/Computers:</i>						
<i>(HFD) Workstations</i>	45,150	42,000				
<i>(HFD) Upgrade CAD 5.7-5.8</i>			178,000			
<i>(HFD) CAD Server Re-Host (JTMC)</i>		63,000				
<i>(HFD) Phone</i>	4,300					
<i>(HFD) Server</i>	196,281		250,000			
<i>(HFD) CAD Licenses</i>		20,000				
<i>(HFD) Smart911 CAD Interface</i>			80,000			
<i>(HFD) WestNet CAD Interface</i>		27,000				
<i>(ESD) CAD Server Replacement</i>	137,329	193,671	250,000			
<i>(ESD) Smart911 S/W</i>		16,200				
<i>(HPD) CAD Upgrade</i>		6,000,000				
<i>(HPD) HTEL Relocation of Equipment - Kapolei</i>						
<i>(HPD) Workstations</i>		148,000	60,000		70,000	
<i>(HPD) Cabling for JTMC</i>		36,000				
<i>(HPD) Viper JTMC Relocation</i>		425,000				
<i>(HPD) Electrical Contractor</i>	6,503					
<i>(DIT) New Logging Recorder JTMC</i>		356,000				
<i>(KPD) Office Furniture Replace</i>		40,000				
<i>(MPD) CAD Upgrade</i>		1,650,000				
<i>(MPD) So. Maui Buildout</i>	5,164	245,000				
<i>(MPD) Gardner Consulting</i>	78,500					
<i>(HiPD) Isolated Electrical Power (911 Equip)</i>			150,000			
<i>(HiPD) Comm Center Console Furniture</i>		60,000	150,000			
<i>(HiPD) Training Computers</i>				10,000		
<i>(hiPD) ADC</i>					400,000	400,000
TOTALS	473,227	9,321,871	1,118,000	10,000	470,000	400,000

RECURRING	Forecast					
	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022
ITEM	Total	Total	Total	Total	Total	Total
Maintenance:	-	-	-	-	-	-
Tower Lease (ESD)	7,535	7,600	7,600	7,600	7,600	7,600
MSAG & GIS Database (all PSAPS)	1,216,255	1,394,527	1,405,122	1,416,246	1,427,926	1,440,190
CAD Maintenance (Oahu/Maui)	547,571	913,183	919,919	926,857	934,183	947,069
Imagery License Agree. (all PSAPs)	4,468,604	720,000	360,000	634,043	1,080,625	1,052,332
E-911/NG-911 UPS (KPD)	-	14,000	14,000	14,000	14,000	14,000
Excom911 Logging Recorder Maint	58,661	102,300	102,300	102,300	102,300	102,300
CAD RELOCATION (HFD)	-	35,000	35,000	35,000	35,000	35,000
	-	-	-	-	-	-
Subtotal Recurring Maint.	6,298,626	3,186,610	2,843,941	3,136,046	3,601,634	3,598,491
Communications:	-	-	-	-	-	-
	-	-	-	-	-	-
HawTel Trunk Charges (all PSAPS)	1,761,853	1,643,241	1,643,241	1,643,241	1,643,241	1,643,241
HawTel Long Distance (All PSAPS)	837	1,070	1,070	1,080	1,080	1,080
(MPD) Secondary PSAP Site So. Maui	-	-	-	186,000	186,000	363,068
(HPD) Smart911 Software	60,206	68,000	68,000	68,000	68,000	68,000
(HPD) CML Viper -Kapolei	110,097	183,495	183,495	183,495	183,495	183,495
(HPD) CML Viper -Alapai	16,337	21,004	21,004	21,004	21,004	21,004
(ESD) CML Viper - OSL	39,506	210,010	210,010	210,010	250,212	250,212
(ESD) Smart911 Software	36,573	27,540	27,540	27,540	27,540	27,540
(HFD) Smart911 Software	-	35,000	35,000	35,000	35,000	35,000
(HFD) VIPER	-	240,000	240,000	240,000	240,000	240,000
Text-to-911 Service Charges	-	5,625	5,625	5,625	14,049	14,049
HPD	-	22,000	25,000	25,000	25,000	25,000
(KPD) CML VIPER (ADC)	117,438	111,398	111,398	111,398	111,398	111,398
(KPD) CML VIPER	102,114	117,438	117,438	117,401	117,401	117,401
(KPD) Alt. PSAP Call Routing Service	300	300	300	300	300	300
(KPD) HT Centrix ADC (phone)	2,053	1,197	1,197	1,197	1,197	1,197
	-	-	-	-	-	-
	-	-	-	-	-	-
Subtotal Recurring Comm.	2,247,313	2,687,318	2,690,318	2,876,291	2,924,917	3,101,985
TOTAL RECURRING	8,545,938	5,873,928	5,534,259	6,012,337	6,526,551	6,700,476

NEXT STEPS?

Nonrecurring, Recurring and Training Cost Projections by PSAP

Oahu PSAP

	Forecast					
NONRECURRING	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022
ITEM	OAHU	OAHU	OAHU	OAHU	OAHU	OAHU
<i>CAD Upgrade/Computers:</i>						
<i>(HFD) Workstations</i>	45,150	42,000				
<i>(HFD) Upgrade CAD 5.7-5.8</i>			178,000			
<i>(HFD) CAD Server Re-Host (JTMC)</i>		63,000				
<i>(HFD) Phone</i>	4,300					
<i>(HFD) Server</i>	196,281		250,000			
<i>(HFD) CAD Licenses</i>		20,000				
<i>(HFD) Smart911 CAD Interface</i>			80,000			
<i>(HFD) WestNet CAD Interface</i>		27,000				
<i>(ESD) CAD Server Replacement</i>	137,329	193,671	250,000			
<i>(ESD) Smart911 S/W</i>		16,200				
<i>(HPD) CAD Upgrade</i>		6,000,000				
<i>(HPD) HTEL Relocation of Equipment - Kapolei</i>						
<i>(HPD) Workstations</i>		148,000	60,000		70,000	
<i>(HPD) Cabling for JTMC</i>		36,000				
<i>(HPD) Viper JTMC Relocation</i>		425,000				
<i>(HPD) Electrical Contractor</i>	6,503					
<i>(DIT) New Logging Recorder JTMC</i>		356,000				
TOTALS	389,563	7,326,871	818,000	-	70,000	-

RECURRING	Forecast					
	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022
	Oahu	Oahu	Oahu	Oahu	Oahu	Oahu
Maintenance:						
Tower Lease (ESD)	7,535	7,600	7,600	7,600	7,600	7,600
MSAG & GIS Database (all PSAPS)	500,000	625,000	625,000	625,000	625,000	625,000
CAD Maintenance (Oahu/Maui)	321,112	450,000	450,000	450,000	450,000	450,000
Imagery License Agree. (all PSAPs)	1,353,000					300,000
E-911/NG-911 UPS (KPD)						
Excom911 Logging Recorder Maint	60,775	100,000	100,000	100,000	100,000	100,000
CAD RELOCOATION (HFD)		35,000	35,000	35,000	35,000	35,000
Subtotal Recurring Maint.	2,242,422	1,217,600	1,217,600	1,217,600	1,217,600	1,517,600
Communications:						
HawTel Trunk Charges (all PSAPS)	946,881	947,000	947,000	947,000	947,000	947,000
HawTel Long Distance (All PSAPS)						
(MPD) Secondary PSAP Site So. Maui						
(HPD) Smart911 Software	60,206	68,000	68,000	68,000	68,000	68,000
(HPD) CML Viper -Kapolei	110,097	183,495	183,495	183,495	183,495	183,495
(HPD) CML Viper -Alapai	16,337	21,004	21,004	21,004	21,004	21,004
(ESD) CML Viper - OSL	39,506	210,010	210,010	210,010	250,212	250,212
(ESD) Smart911 Software	36,573	27,540	27,540	27,540	27,540	27,540
(HFD) Smart911 Software		35,000	35,000	35,000	35,000	35,000
(HFD) VIPER		240,000	240,000	240,000	240,000	240,000
Text-to-911 Service Charges						
HPD		22,000	25,000	25,000	25,000	25,000
(KPD) CML VIPER (ADC)						
(KPD) CML VIPER						
(KPD) Alt. PSAP Call Routing Service						
(KPD) HT Centrix ADC (phone)						
Subtotal Recurring Comm.	1,209,600	1,754,049	1,757,049	1,757,049	1,797,251	1,797,251
TOTAL RECURRING	3,452,022	2,971,649	2,974,649	2,974,649	3,014,851	3,314,851

TRAINING	Forecast	FY2018	FY2019	FY2020	FY2021	FY2022
	Oahu	Oahu	Oahu	Oahu	Oahu	Oahu
APCO						
HPD	11,259	14,000	14,000	14,000	14,000	14,000
EMS		7,000				
APCO/NENA Pacific Chapter		3,500				
HFD		10,500	10,500	10,500	10,500	10,500
911 GTW						
HPD	7,918	14,000	10,500	10,500	10,500	10,500
HFD		10,500	10,500	10,500	10,500	10,500
NENA/NASNA						
HPD	14,948	14,000	14,000	14,000	14,000	14,000
EMS		7,000				
HFD		10,500	10,500	10,500	10,500	10,500
Smart911 Summit						
HPD	11,018	10,500	10,500	10,500	10,500	10,500
HFD		7,000	7,000	7,000	7,000	7,000
APCO New Tech		24,000	24,000			
NENA Tech Dev						
Pictometry Conf						
O/T for CAD Syst Train-JTMC Setup (HFD)		45,000	25,000	25,000	25,000	25,000
O/T for CAD Admin/Mapflex/Text-2-911 (HPD)		30,000	20,000	20,000	20,000	20,000
Comm Center Mgr Conf						
Navigator Conference (EDS)		8,000	8,000	3,500	3,500	3,500
Live Hexagon Conference						
Spillman User Conf						
TriCom Training	8,928					
IWCE-HFD	5,968					
Tritech						
HFD	-	10,000	10,000	10,000	10,000	10,000
EMS	12,635	10,000	10,000	10,000	10,000	10,000
Futureview						
APCO/NENA Colorado State Conference	3,453					
Totals	76,126	235,500	184,500	156,000	156,000	156,000

MAUI PSAP

	Forecast					
NONRECURRING	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022
ITEM						
(MPD) CAD Upgrade		1,650,000				
(MPD) So. Maui Buildout	5,164	245,000				
(MPD) Gardner Consulting	78,500					
TOTALS	83,664	1,895,000	-	-	-	-

RECURRING	Forecast					
	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022
	Maui	Maui	Maui	Maui	Maui	Maui
Maintenance:						
Tower Lease (ESD)						
MSAG & GIS Database (all PSAPS)	241,773	250,000	250,000	250,000	250,000	250,000
CAD Maintenance (Oahu/Maui)	226,459	226,459	226,459	226,459	226,459	226,459
Imagery License Agree. (all PSAPS)	1,523,219			274,043	360,625	392,332
E-911/NG-911 UPS (KPD)						
Excom911 Logging Recorder Maint	2,490	2,300	2,300	2,300	2,300	2,300
CAD RELOCOATION (HFD)						
Subtotal Recurring Maint.	1,993,941	478,759	478,759	752,802	839,384	871,091
Communications:						
HawTel Trunk Charges (all PSAPS)	301,703	278,495	278,495	278,495	278,495	278,495
HawTel Long Distance (All PSAPS)	149	350	350	360	360	360
(MPD) Secondary PSAP Site So. Maui				186,000	186,000	363,068
(HPD) Smart911 Software						
(HPD) CML Viper -Kapolei						
(HPD) CML Viper -Alapai						
(ESD) CML Viper - OSL						
(ESD) Smart911 Software						
(HFD) Smart911 Software						
(HFD) VIPER						
Text-to-911 Service Charges					4,424	4,424
HPD						
(KPD) CML VIPER (ADC)						
(KPD) CML VIPER						
(KPD) Alt. PSAP Call Routing Service						
(KPD) HT Centrix ADC (phone)						
Subtotal Recurring Comm.	301,853	278,845	278,845	464,855	469,279	646,347
TOTAL RECURRING	2,295,794	757,604	757,604	1,217,657	1,308,663	1,517,438

TRAINING	Forecast	FY2018	FY2019	FY2020	FY2021	FY2022
	Maui	Maui	Maui	Maui	Maui	Maui
APCO	2,920	10,500	10,800	10,800	10,800	10,800
HPD						
EMS						
APCO/NENA Pacific Chapter						
HFD						
911 GTW	8,401	10,500	10,800	10,800	10,800	10,800
HPD						
HFD						
NENA/NASNA	7,342	10,500	10,800	10,800	10,800	10,800
NENA Tech Dev		3,500	3,600	3,600	3,600	3,600
Pictometry Conf		7,000	7,200	7,200	7,200	7,200
Live Hexagon Conference	6,660	10,500	10,800	10,800	10,800	10,800
Totals	31,107	52,500	54,000	54,000	54,000	54,000

HAWAII PSAP

	Forecast					
NONRECURRING	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022
ITEM						
(HiPD) Isolated Electrical Power (911 Equip)			150,000			
(HiPD) Comm Center Console Furniture		60,000	150,000			
(HiPD) Training Computers				10,000		
(hiPD) ADC					400,000	400,000
TOTALS	-	60,000	300,000	10,000	400,000	400,000

RECURRING	Forecast					
	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022
ITEM	Hawaii	Hawaii	Hawaii	Hawaii	Hawaii	Hawaii
<i>Maintenance:</i>						
Tower Lease (ESD)						
MSAG & GIS Database (all PSAPS)	269,782	307,647	307,647	307,647	307,647	307,647
CAD Maintenance (Oahu/Maui)						
Imagery License Agree. (all PSAPS)	842,108	720,000	360,000	360,000	720,000	360,000
E-911/NG-911 UPS (KPD)						
Excom911 Logging Recorder Maint	(4,604)					
CAD RELOCOATION (HFD)						
Subtotal Recurring Maint.	1,107,286	1,027,647	667,647	667,647	1,027,647	667,647
<i>Communications:</i>						
HawTel Trunk Charges (all PSAPS)	306,344	306,348	306,348	306,348	306,348	306,348
HawTel Long Distance (All PSAPS)	344	360	360	360	360	360
Text-to-911 Service Charges					4,000	4,000
Subtotal Recurring Comm.	306,688	306,708	306,708	306,708	310,708	310,708
TOTAL RECURRING	1,413,974	1,334,355	974,355	974,355	1,338,355	978,355

TRAINING	Forecast	FY2018	FY2019	FY2020	FY2021	FY2022
	Hawaii	Hawaii	Hawaii	Hawaii	Hawaii	Hawaii
APCO	6,419					
HPD		10,500	10,500	10,500	10,500	10,500
EMS						
APCO/NENA Pacific Chapter						
HFD						
911 GTW		7,000	7,000	7,000	7,000	7,000
HPD						
HFD						
NENA/NASNA	8,383	10,500	10,500	10,500	10,500	10,500
HPD						
EMS						
HFD						
Smart911 Summit						
HPD						
HFD						
APCO New Tech						
NENA Tech Dev						
Pictometry Conf						
O/T for CAD Syst Train-JTMC Setup (HFD)						
O/T for CAD Admin/Mapflex/Text-2-911 (HPD)						
Comm Center Mgr Conf	14,798					
Navigator Conference (EDS)						
Live Hexagon Conference						
Spillman User Conf	3,184	10,500	10,500	10,500	10,500	10,500
TriCom Training						
IWCE-HFD						
Tritech						
HFD						
EMS						
Futureview						
APCO/NENA Colorado State Conference						
Totals	32,784	38,500	38,500	38,500	38,500	38,500

KAUAI PSAP

	Forecast					
NONRECURRING	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022
ITEM	Kauai	Kauai	Kauai	Kauai	Kauai	Kauai
<i>(KPD) Office Furniture Replace</i>		40,000				
TOTALS	-	40,000	-	-	-	-

RECURRING	Forecast					
	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022
	Kauai	Kauai	Kauai	Kauai	Kauai	Kauai
Maintenance:						
Tower Lease (ESD)						
MSAG & GIS Database (all PSAPS)	204,700	211,880	222,475	233,599	245,279	257,543
CAD Maintenance (Oahu/Maui)		236,724	243,460	250,398	257,724	270,610
Imagery License Agree. (all PSAPs)	750,277					
E-911/NG-911 UPS (KPD)		14,000	14,000	14,000	14,000	14,000
Excom911 Logging Recorder Maint						
CAD RELOCATION (HFD)						
Subtotal Recurring Maint.	954,977	462,604	479,935	497,997	517,003	542,153
Communications:						
HawTel Trunk Charges (all PSAPS)	206,924	111,398	111,398	111,398	111,398	111,398
HawTel Long Distance (All PSAPS)	343	360	360	360	360	360
(MPD) Secondary PSAP Site So. Maui						
(HPD) Smart911 Software						
(HPD) CML Viper -Kapolei						
(HPD) CML Viper -Alapai						
(ESD) CML Viper - OSL						
(ESD) Smart911 Software						
(HFD) Smart911 Software						
(HFD) VIPER						
Text-to-911 Service Charges		5,625	5,625	5,625	5,625	5,625
HPD						
(KPD) CML VIPER (ADC)	117,438	111,398	111,398	111,398	111,398	111,398
(KPD) CML VIPER	102,114	117,438	117,438	117,401	117,401	117,401
(KPD) Alt. PSAP Call Routing Service	300	300	300	300	300	300
(KPD) HT Centrix ADC (phone)	2,053	1,197	1,197	1,197	1,197	1,197
Subtotal Recurring Comm.	429,172	347,716	347,716	347,679	347,679	347,679
TOTAL RECURRING	1,384,149	810,320	827,651	845,676	864,682	889,832

TRAINING	Forecast	FY2018	FY2019	FY2020	FY2021	FY2022
	Kauai	Kauai	Kauai	Kauai	Kauai	Kauai
APCO	9,307	10,500	7,000	7,000	7,000	7,000
911 GTW	-	3,500	3,500	3,500	3,500	3,500
NENA/NASNA	7,180	7,000	7,000	7,000	7,000	7,000
APCO New Tech	(2,768)					
Spillman User Conf		14,000	10,500	10,500	10,500	10,500
IWCE		3,500	3,500	3,500	3,500	3,500
Totals	13,719	38,500	31,500	31,500	31,500	31,500