Broward County Phase 3 Summary on 911 Workload & Staffing Needs

Briefing for Stakeholders January 16-18, 2018



Executive Summary

- As has been identified before, Broward's 911 efforts over the past years has been less of a consolidation, and more of a colocation. That premise best characterizes the reason why sought-after efficiencies have yet to be fully obtained
- In this Report, a focus was placed on the primary radio channels for both fire and law and modelling their performance in a true consolidated environment. Base levels of service were identified and limits identified where additional resources are required.

Executive Summary (con't)

 The results show that consolidation of certain radio channels can occur completely for certain fire radio channels. In addition, both fire and law radio channels have an opportunity to consolidate overnight when workload drops significantly though each is handled differently based on their specific needs.

 Finally, three law radio channels were found to exceed recommended workloads, and therefore resources are shifted from nighttime hours to daytime hours when needed.

Executive Summary (con't)

• Overall, the total demand for staffing of call-take, radio & supervisor positions can be reduced up to 8.4% because of these consolidations. This translates to an estimate reduction on FTEs required to staff positions from a current level of 404 positions for front line dispatch center staff, to a level just between 360 to 370 FTEs.

• Because of current vacancies, and the estimated 1-year plus implementation schedule, no layoffs should be needed to achieve these efficiencies.

Executive Summary (con't)

- Stakeholder input from earlier engagements were considered and addressed in the Report. This included:
 - Inclusion of all relevant radio channels in the analysis
 - Consideration of Priority 1 & 2 law enforcement calls by hour of day
 - Consideration of differences in demand overnight between fire and law enforcement

- Comparison of 'time-on-task' required in this Phase 3 report, versus those summarized in the Phase 2 report, shows some degree of variance. Phase 2 reflected a more aggressive reduction in 'time-on-task' was possible.
- The difference is explained by a number of factors most significant is the change in perspective from the 3 PSAPs used in Phase 2, versus the 28 channels used here. The loss in efficiency is almost exponential when changing the lens from 3 dimensions to 28 dimensions from a more global to more granular perspective. Nonetheless, there is still a significant efficiency that is identified in this more detailed analysis.

Phase 2 Recommendations Status

Number	Recommendation - Phase 2	Current Status
15	Dispatch center performance metrics should focus on optimizing dispatch processes as much as possible	COMPLETED:
10	Modify the current monthly performance report	COMPLETED:
14	P2 and P3 intervals should be reported separately and as a combined metric.	COMPLETED:
1	The County needs to insure the missions of technology development and technology sustainment have different focuses and roles.	COMPLETED:
11	The "busy hour" is to be redefined	COMPLETED:
21	Long-term capital budgeting for two new purpose-specific 911 facilities.	COMPLETED:
12	The County should purchase a performance measurement software package	IN PROGESS
2	Link between 911 phone records and the associate CAD incident records.	IN PROGESS
5	Operational Oversight and System Governance	IN PROGESS
7	Supervision at a ratio of six to one	IN PROGESS
8	Resources for dispatcher training should be increased	IN PROGESS
13	Only the performance on emergency/911 incidents should be included in the performance reports.	IN PROGESS
16	Call processing staffing should be adjusted to achieve P1/call-taking performance of between three to five seconds at the 90 th percentile	IN PROGESS
3	Emergency Fire Dispatch	IN PROGRESS:
4	Emergency Police Dispatch	IN PROGRESS:
17	Fire-Rescue Nearest Unit Response	PENDING:
6	Alternative work schedules	PHASE 3 DELIVERABLE:
9	"Base level of 911 services" funded by the County should be more clearly defined	PHASE 3 DELIVERABLE:
18	Increased usage of Mobile Data Terminals (MDTs) by field responders.	PHASE3 DELIVERABLE:
19	Single "gatekeeper" function / fire rescue alert channel	PHASE3 DELIVERABLE:
20	Law enforcement radio positions should be consolidated	PHASE3 DELIVERABLE:

Methodology

- Used existing CAD data to quantify the demand on the 28 primary radios channels (9 fire & 19 law)
- Used radio data focusing on radio talk time as the primary metric for the 28 primary radio channels
 - Analyzed each primary fire & law channel separately, calculating variables for each.
 - Conducted analysis for hour of day for each radio channel
- For each channel we generated the following

Methods

- For this analysis, we focused on:
 - Erlangs
 - Answer Delay @ 97th%

Broward E911 Consolidated Communications System Radio Channel Performance by Hour-of-Day

Year	TalkG	TalkGroup ID# & Discipline Cha			เทท	el Name		PSAF	? Surç	ge	
2015	8000263	1	L	AW	PPP	PP-MAIN South			South	+ 0.00) σ
Hour	Radio Channel Traffic Workstation				ion Sta	affing & I					
Hour of Day		Incidents	Xmit/Rcv	Σ Erla	ings		OnTask		ediate er [%]	Ans De 97 %-tile [lay sec
0000		4.52	102.02	0.22	24		1	77	7.58	4.77	
0100		3.53	79.61	0.17	75		1	82	2.50	3.50)
0200		2.74	61.77	0.13	36		1	86	6.43	2.59	
0300		3.06	69.12	0.15	52		1	84	l.81	2.96	;
0400		2.47	55.68	0.12	22		1	87	7.76	2.30	
0500		2.33	52.57	0.11	16		1	88	3.45	2.16	,
0600		2.70	61.01	0.13	34		1	86	6.59	2.56	,
0700		4.50	101.61	0.22	23		1	77	7.67	4.75	,
0800		5.85	132.06	0.29	90		1	70).98	6.75	,
0900		6.62	149.38	0.32	28		1	67	7.17	8.07	_
1000		7.14	161.08	0.35	54		1	64	1.60	9.04	_
1100		8.36	188.56	0.41	14		1	58	3.56	11.68	
1200		8.55	192.97	0.42	24		1	57	7.59	12.15	,
1300		8.85	199.70	0.43	39		1	56	5.11	12.91	
1400		8.99	202.79	0.44	46		1	55	5.43	13.27	
1500		9.51	214.54	0.47	71		1	52	2.85	14.72	
1600		8.66	195.48	0.43	30		1	57	7.04	12.43	
1700		8.53	192.35	0.42	23		1	57	7.73	12.08	
1800		8.45	190.55	0.41	19		1	58	3.12	11.89	
1900		7.35	165.89	0.36	65		1	63	3.54	9.47	_
2000		6.53	147.41	0.32	24		1	67	7.60	7.91	_
2100		6.01	135.67	0.29	98		1	70).19	7.01	Т
2200		5.50	124.14	0.27	73		1	72	2.72	6.19	
2300		5.01	113.11	0.24	49		1	75	5.14	5.46	,
Avg Air-Time er Xmit/Rcv	·	lourly Average		Avera Erlar			Req'd Hrs OnTask		24 Hr ned Ans	Wt'd 24 F Ans Dela	
7.911 se		Incidents 6.07	Xmit/Rcv 137.04	0.30	_		24		5.38 %	9.31	<u>:</u>
7.011 36	0.00	0.07	107.04	0.00	~ 1		2-7			0.01	_

	Hours	Included in	Block	Parameters Over Bloc		
	From First	Thru Last	Block Length	% Immed Ans	Ans Delay @ 97 %-tile [sec]	
Contiguous	0000	2300	24	65.38 %	9.31	
non-Contig			0	? %	?	

Consolidations BSO-10P-DISP

Figure 4: Main Radio Channels - Law

	Broward E911 Consolidated Communications System Talkgroups at Zone Statistics CY2015								
	scipline & Group ID ##	Channel Abreviation	Annual Air-Time [sec / yr]	Annual Incidents	Annual Xmit/Rcv's [PPT/2]	Air-Time per Xmit/Rcv [sec]	Xmit/Rcv's per Incident	Air-Time per Incident [sec]	Agencies Served
LAW	80001635	SNP-DISP	7,195,082	38,282	1,759,000	8.181	22.97	187.95	Agn42
LAW	80002673	CKP MAIN	8,310,381	43,586	1,999,228	8.314	22.93	190.67	Agn30 + Agn37
LAW	80001825	FLP-DIST-1	8,304,910	52,978	2,010,966	8.260	18.98	156.76	0.333* Agn34 + Agn43
LAW	80001827	FLP-DIST-2	7,388,925	45,056	1,828,597	8.082	20.29	163.99	0.333* Agn34
LAW	80001829	FLP-DIST-3	7,398,485	45,055	1,844,836	8.021	20.47	164.21	0.333* Agn34
LAW	80003311	HWP-A1	9,798,831	42,174	2,248,559	8.716	26.66	232.34	0.5933 * Agn33
LAW	80003331	HWP-A2	6,716,101	28,906	1,503,949	8.931	26.01	232.34	0.4067 * Agn33
LAW	80002631	PPP-MAIN	9,362,099	52,454	2,366,789	7.911	22.56	178.48	Agn25
LAW	80000277	BSO-09-DISP	6,811,261	34,030	1,728,784	7.880	25.40	200.15	Agn10
LAW	80000423	BSO-11-Area2	6,705,586	37,523	1,628,181	8.237	21.70	178.71	0.5145 * Agn11
LAW	80000259	BSO-02-DISP	6,571,478	37,318	1,601,387	8.207	21.46	176.09	Agn02 +Agn 03 + Agn14
LAW	80000261	BSO-03-DISP	7,212,269	41,993	1,799,881	8.014	21.43	171.75	Agn28 + 0.4485*(Agn19 + Agn01)
LAW	80000263	BSO-04-DISP	4,794,358	27,915	1,188,048	8.071	21.28	171.75	Agn16+Agn08+0.5515* (Agn19 + Agn01)
LAW	80000269	BSO-06-DISP	7,364,307	42,650	1,719,839	8.564	20.16	172.67	Agn29
LAW	80000273	BSO-07-DISP	10,128,828	58,808	2,552,006	7.938	21.70	172.24	AgnBS + Agn04 + Agn12
LAW	80000275	BSO-08-DISP	7,975,457	46,725	1,923,523	8.293	20.58	170.69	Agn07 + Agn15 + Agn17
LAW	80000279	BSO-10-DISP	8,527,021	63,054	2,179,866	7.823	17.29	135.23	Agn23
LAW	80000421	BSO-11-Area1	7,851,381	43,935	1,894,712	8.288	21.56	178.70	0.4855 * Agn11 + Agn 13 + Agn36 + Agn26
LAW	80000265	BSO-05-DISP	7,145,394	62,913	1,726,000	8.280	13.72	113.58	Agn21

Figure 3: Main Radio Channels - Fire

Broward E911 Consolidated Communications System Talkgroups at Zone Statistics CY2015

	scipline & Group ID ##	Channel Abreviation	Annual Air-Time [sec / yr]	Annual Incidents	Annual Xmit/Rcv's [PPT/2]	Air-Time per Xmit/Rcv [sec]	Xmit/Rcv's per Incident	Air-Time per Incident [sec]	Agencies Served
FIRE	80001651	BCF-D1	4,161,542	32,237	1,011,799	8.226	15.69	129.09	OP + SN + LH
FIRE	80000513	BCF-D2	4,671,511	43,740	1,124,710	8.307	12.86		CC + DN + DR + BC + LL + PK + PE + WP +
FIRE	80000517	BCF-D3	2,008,058	18,675	433,026	9.275	11.59	107.53	HD + MM
FIRE	80000577	BCF-D4	1,539,092	12,800	334,737	9.196	13.08	120.24	DV + SW
FIRE	80000515	BCF-D5	3,160,509	28,086	748,747	8.442	13.33	112.53	LS + LP + PB
FIRE	80002687	BCF-D6	3,456,751	29,639	830,850	8.321	14.02	116.63	CK + MG + NL + TM
FIRE	80001569	FLF-DISP1	5,252,965	49,611	1,298,906	8.088	13.09	105.88	FL + WM
FIRE	80003359	BCF-D8	4,070,692	28,239	940,253	8.659	16.65	144.15	HW
FIRE	80002655	BCF-D9	2,525,851	20,478	628,383	8.039	15.34	123.34	PP

Figure 8: Erlang Demand by Hour of Day – Law Enforcement Main Channels

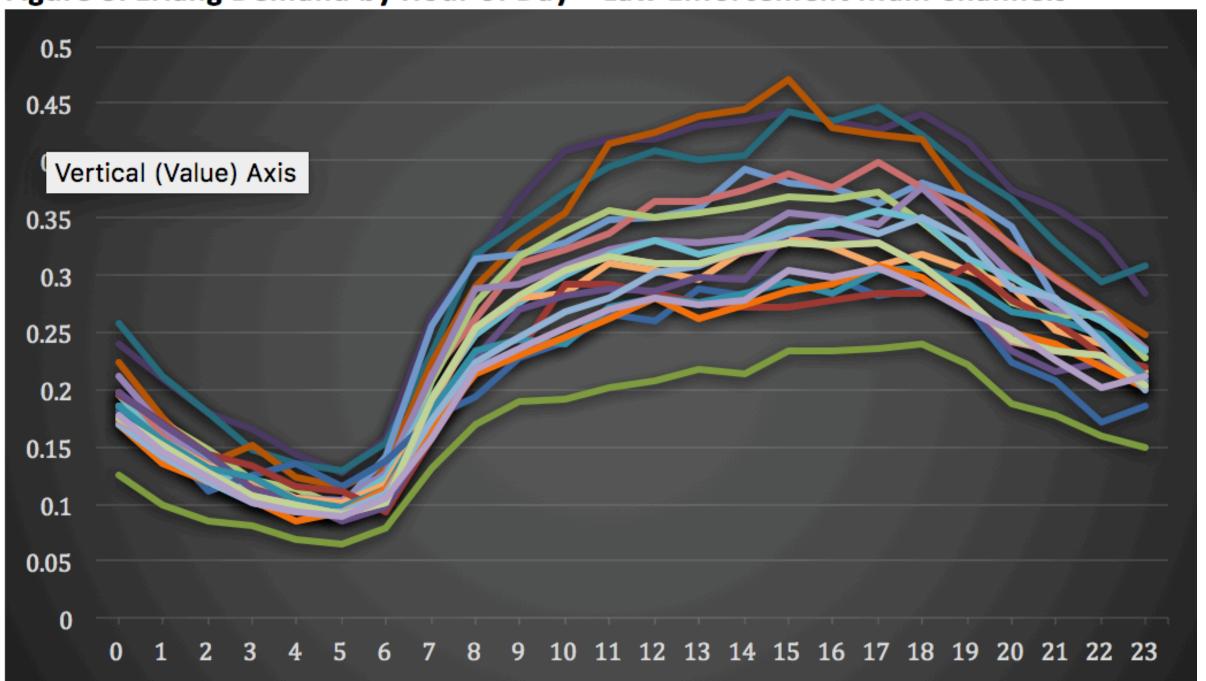


Figure 9: Erlang Demand by Hour of Day – Fire Main Channels

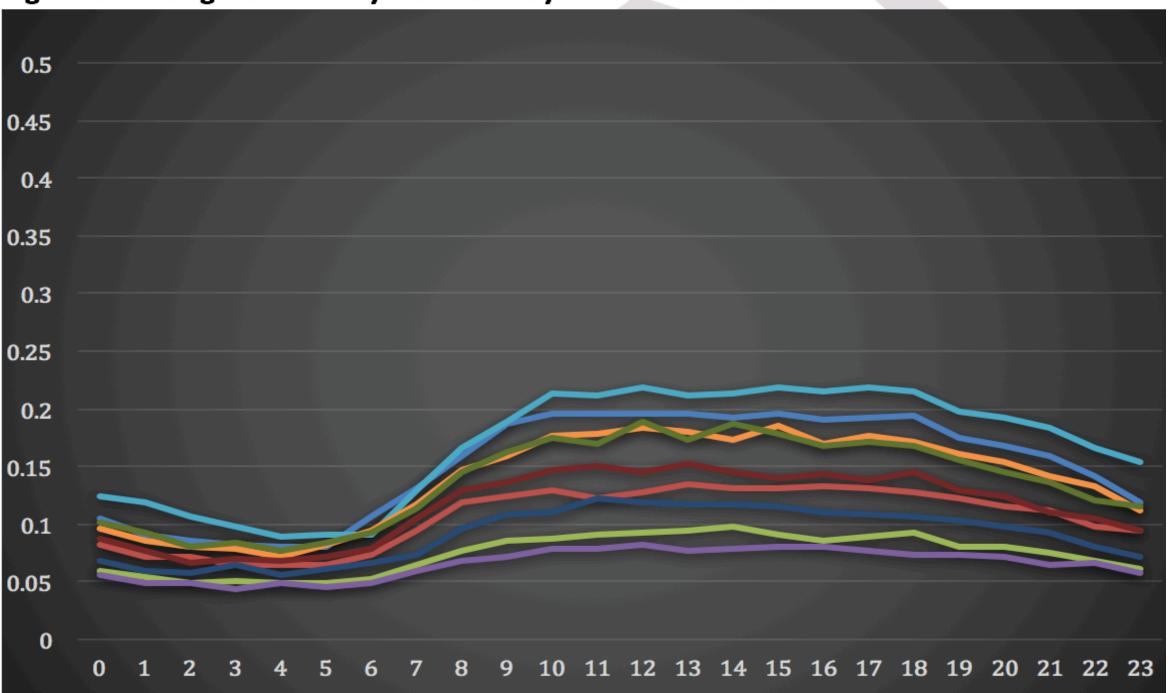
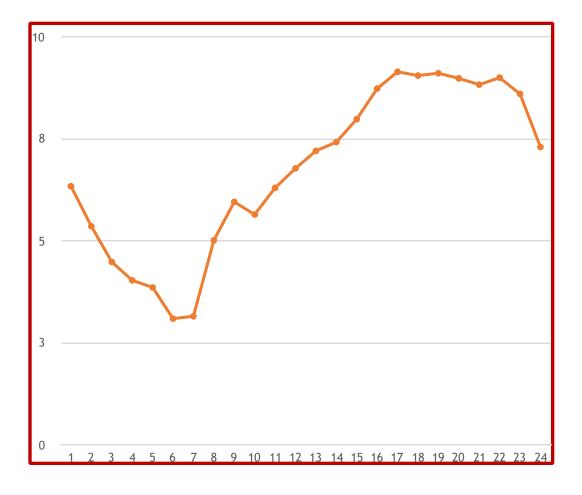


Figure 2: Law - Average Priority 1 & 2 Calls by Hour of Day

- During this engagement, questions arose regarding the frequency with which high priority law enforcement calls occur by hour of day. The concern was any impact higher priority incidents may have should radio channels be reduced during overnight hours.
- CAD data was also examined to answer this question and is reflected in the graphic below. As can be seen, most significant law incidents, as defined as Priority 1 & 2, occur between noon and midnight hours.



Grade of Service & Hold Time

- The Grade of Service (GOS) for systems with queues is the probability of a response to a call being delayed by busy radio dispatchers.
- What the recommended in the context of the Broward's radio channels is that responses to 97% of field initiated transmits be responded to by the radio dispatcher in less than the duration of the average Xmit/Rcv cycle on the channel, or within 10 seconds.

Figure 23: Base Levels of Service

Quantitative						
911 call answer	Call intake staffing should be adjusted to achieve P1/call-taking					
performance	performance of between three to five seconds at the 90 th percentile					
Radio operator (law	A single radio talkgroup, staffed with a single radio operator, should					
& fire) workloads	not exceed during any 4-hour block a weighted 0.4 Erlangs and					
	during that same 4-hour block a weighted Answer Delay of 10					
	seconds or greater					
PSAP supervision	Supervision on the PSAP dispatch floors should be scheduled at a					
levels	ratio of six to one.					
	Qualitative					
Call-taking	The system should maintain EMD certification for all call takers					
	through the International Academies of Emergency Dispatch (IAED),					
	and implement and achieve certification in both 🖽 and 🖽.					
Radio operators	Independent QA/QI for call-taker, fire and law positions should be					
	addressed through existing MPDS systems or similar methodologies.					

Recommended Changes to Radio Channels

Figure 11: Recommended Changes in Radio Channel Staffing

FIRE Radio Main Channel Staffing	Current	Recommendation	% Change
Current - 9 talkgroups staffed 24-hours per day	216		
FLF-DISP1 Fort Lauderdale remains unchanged from current		24	
BCF-D3 (Hallandale/Miramar) & BCF-D4 (Davie) consolidate for 24-hours per day		24	
BCF-D5 (Lighthouse Point/Pompano) & BCF-D6 (Margate/Coconut Creek/N. Laud./Tamarac) consolidate for 24-hours per day		24	
BCF-D8 (Hollywood) & BCF-D9 (Pembroke Pines) consolidate for 24-hours per day		24	
BCF-D1 (Sunrise/etc.) & BCF-D2 (BSO Fire) consolidate for 8-hours per day overnight (from 2300 till 0700)		40	
Fire Total Staffing Hours/Day	216	136	-37.0%

LAW Radio Main Channel Staffing	Current	Recommendation	% Change
Current - 19 talkgroups staffed 24-hours per day	456		
PPP-MAIN remains unchanged from Current		24	
CPK-MAIN remains unchanged from current		24	
Hollywood consolidates their 2 channels to a single channel for 6-hours per day overnight (from 0100 till 0700)		42	
Fort Lauderdale consolidates their 3 channels to 2 channels for 6-hours per day overnight (from 0100 till 0700)		66	
BSO-06-DISP (Lauderhill) & SNP-DISP (Sunrise) for 6-hours per day overnight (from 0100 till 0700)		42	
BSO-11-Area1 & BSO-11-Area2 (Pompano) consolidate to a single channel for 6-hours per day overnight (from 0100 till 0700)		42	
BSO-10-DISP (Miramar) & PPP-MAIN (Pines) for 6-hours per day overnight (from 0100 till 0700)		42	
BSO-08-DISP (N.Laud/Parkland/Tamarac) & BSO-09-DISP (Deerfield Beach) for 6-hours per day overnight (from 0100 till 0700)		42	
BSO-02-DISP (Dania/Ports) & BSO-05-DISP (Davie) for 6-hours per day overnight (from 0100 till 0700)		42	
BSO-03-DISP (Cooper City/Weston) & BSO-04-DISP (Pembroke Park/West Park) for 6-hours per day overnight (from 0100 till 0700)		42	
PPP-MAIN additional radio hours needed		8	
BSO-7 additional radio hours needed		8	
HWD-A1 additional radio hours needed		8	
Law Total Staffing Hours/Day	456	432	-5.3%

Figure 10: Gross Change in Radio Workstation Staffing - 24-Hour Period

Workstations	Hours	Notes
Fire - Current	216	9 radio positions X 24 hrs.
Fire - Modeled	136	6 radio channels X 16 hrs. and 5 radio channels X 8 hrs.
Law - Current	456	19 radio positions X 24 hrs.
Law - Modeled	432	22 radio positions X 8 hrs.; 19 radio channels X 10 hrs.; 11 radio channels X 6 hrs.

Conversion of Model to Staffing & FTEs

Manpower Descriptor	Source
Dispatcher Hours on Task	Erlang modelling of the main radio dispatch workstations at the three PSAPs provides the needed number of hours of
	dispatchers actively on duty at their workstations.
Dispatchers on Shift	Calculated from dispatchers on task by providing for local work rules, break time policies while on shift, and local contractual obligations.
Full Time Equivalents (FTE) (Dispatchers on Staff)	Calculated from dispatchers on shift by providing for local personnel policies, work rules, and contractual obligations.

Worksheet A: Determining Employee Availability

		Determine Net Available Work Hours (NAWH)
Pos	tion:	
Α	2080	Total hours for one full time employee
В	202	Average vacation and holiday leave (total hours)
С	94	Average sick leave (total hours)
D	11	Average personal leave (total hours)
Е	86	Average training leave (total hours)
F	39	Average military, FMLA leave, etc. (total hours)
G	264	Average lunch and break (total hours)
Н	3	Average other (meetings, light duty, special assignments, etc.)
ı	_699	Total <u>un</u> available time = Total B through H
J	1381	Net Available Work Hours (NAWH) = A - I
	1381=	Net Available Work Hours per employee (NAWH from J above)

Figure 17: Call Intake - 8 Hour Shifts Only

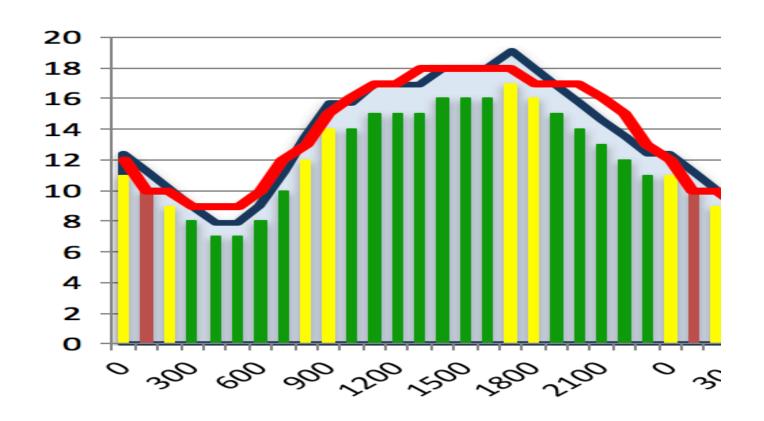


Figure 18: Call Intake - 8 Hour and 10 Hour Shifts

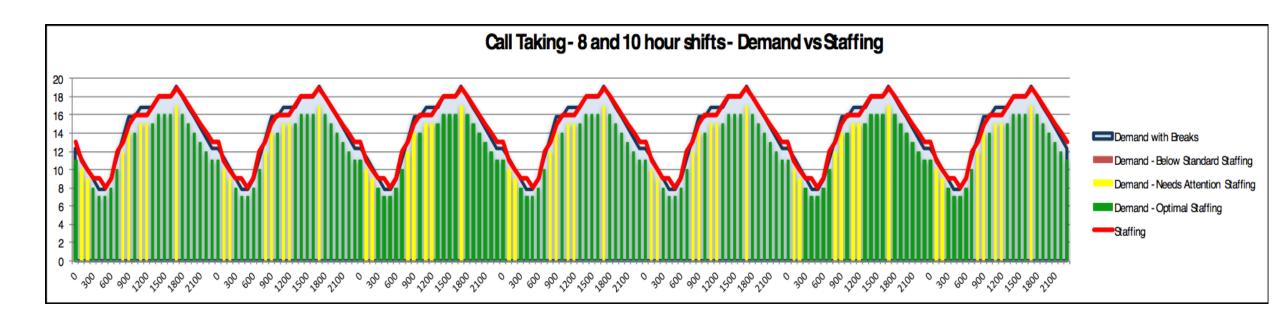


Figure 19:Law Workstations: 8 and 10 Hour Shifts

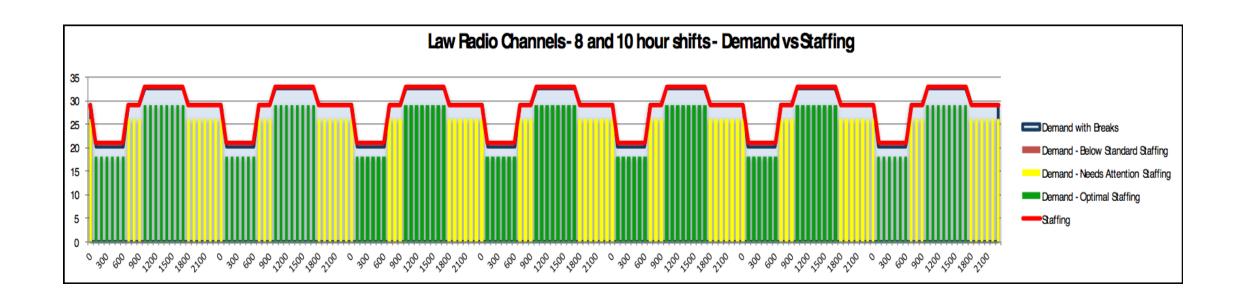
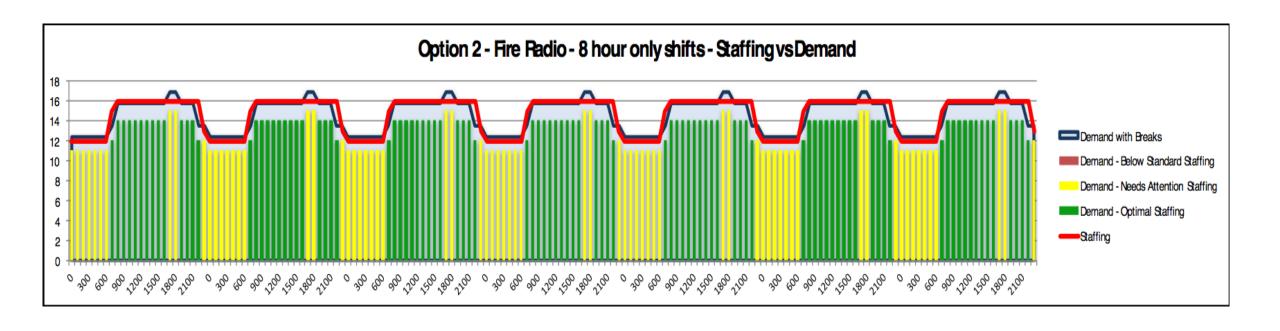


Figure 21: Fire Workstations - Option 2 with 8 Hour Shifts



FTE Requirements

- Currently, BSO's budget includes 404 FTEs assigned to these same roles.
- The results demonstrate the opportunity for efficiencies available in the current system

8-Hour & 10-Hour Shifts		Personnel Hours/Week	Scheduled Hours/Year	FTEs Required
	Demand with Breaks	2370	1645	74.9
Call Intake	Base Demand	2107	1645	66.6
	Suggested Staffing	2380	1645	75.2
	Demand with Breaks	4725	1645	149.4
Law	Base Demand	4200	1645	132.8
	Suggested Staffing	4760	1645	150.5
	Demand with Breaks	2205	1645	69.7
Fire - Option 1	Base Demand	1960	1645	62.0
	Suggested Staffing	2261	1645	71.5
	Demand with Breaks	2449	1645	77.4
Fire - Option 2	Base Demand	2177	1645	68.8
	Suggested Staffing	2449	1645	77.4
	Demand with Breaks	1477	1645	46.7
Supervisor	Base Demand	1477	1645	46.7
	Suggested Staffing	1568	1645	49.6
		Total FTEs - Fire Option 1		346.7
		Total FTEs	- Fire Option 2	352.7

Call Taking: 8 & 10-Hours Shifts

							Weel														Week 2	_						
	BOT BO			BOT B	OT EOT		3OT E	OT	BOT BOT	BOT			BOT E	OT E	OT	EOT BOT		_	BOT EOI	ΓΕ	BOT E01	Γ	BOT E	OT B				EOT
24 hours A, B, CPotation	700	1500	700	1500	700	1500	700	1500	700	1500	700		700	1500	700		700	1500	700	1500	700	1500	700	1500	700			
24 hours A, B, CPotation	700	1500	700	1500	700	1500	700	1500	700	1500	700	_	700	1500	700		700	1500	700	1500	700	1500	700	1500	700		700	
24 hours A, B, CPotation	700	1500	700	1500	700	1500	700	1500	700	1500	700		700	1500	700		700	1500	700	1500	700	1500	700	1500	700		700	
24 hours A, B, CPotation	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500
24 hours A, B, CPotation	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500
24 hours A, B, CPotation	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500
24 hours A, B, CPotation	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500
24 hours A, B, CPotation	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500
24 hours A, B, CPotation	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CPotation	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CPotation	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CPotation	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CPotation	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CPotation	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500		1500	2300	1500	2300	1500	2300	1500	2300	1500		1500	2300
24 hours A, B, CPotation	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CRotation	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CPotation	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700
24 hours A, B, CPotation	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300		2300	700	2300	700	2300	700	2300	700	2300		2300	
24 hours A, B, CPotation	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300		2300	700	2300	700	2300	700	2300	700	2300		2300	
24 hours A, B, CRotation	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700
24 hours A. B. CPotation	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700
24 hours A, B, CPotation	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700
24 hours A. B. CRotation	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300		2300	700	2300	700	2300	700	2300	700	2300	-	2300	
24 hours A. B. CRotation	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300		2300	700	2300	700	2300	700	2300	700	2300		2300	
10 hour shift	600	1600	600	1600	600	1600	600	1600	600	1600	600	1600	600	1600	600		600	1600	600	1600	600	1600	600	1600	600		600	
8 hour shift	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700		700	1500	700	1500	700	1500	700	1500	700		700	
10 hour shift	700	1700	700	1700	700	1700	700	1700	700	1700	700	1700	700	1700	700		700	1700	700	1700	700	1700	700	1700	700		700	
10 hour shift	700	1700	700	1700	700	1700	700	1700	700	1700	700		700	1700	700		700	1700	700	1700	700	1700	700	1700	700		700	
10 hour shift	800	1800	800	1800	800	1800	800	1800	800	1800	800	1800	800	1800	800		800	1800	800	1800	800	1800	800	1800	800	_	800	
10 hour shift	900	1900	900	1900	900	1900	900	1900	900	1900	900	1900	900	1900	900		900	1900	900	1900	900	1900	900	1900	900		900	
10 hour shift	900	1900	900	1900	900	1900	900	1900	900	1900	900	1900	900	1900	900		900	1900	900	1900	900	1900	900	1900	900		900	
10 hour shift	1000	2000	1000	2000	1000	2000	1000	2000	1000	2000	1000	2000	1000	2000	1000		1000	2000	1000	2000	1000	2000	1000	2000	1000		1000	
8 hour shift	1300	2100	1300	2100	1300	2100	1300	2100	1300	2100	1300	2100	1300	2100	1300		1300	2100	1300	2100	1300	2100	1300	2100	1300		1300	
10 hour shift	1400	2200	1400	2200	1400	2200	1400	2200	1400	2200	1400	2200	1400	2200	1400		1400	2200	1400	2200	1400	2200	1400	2200	1400		1400	
8 hour shift	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500		1500	2300	1500	2300	1500	2300	1500	2300	1500		1500	
8 hour shift	1600	200	1600	200	1600	200	1600	200	1600	200	1600	200	1600	200	1600		1600	200	1600	200	1600	200	1600	200	1600		1600	
8 hour shift	1700	100	1700	100	1700	100	1700	100	1700	100	1700	_	1700	100	1700		1700	100	1700	100	1700	100	1700	100	1700		1700	
8 hour shift	1700	100	1700	100	1700	100	1700	100	1700	100	1700	100	1700	100	1700		1700	100	1700	100	1700	100	1700	100	1700		1700	
10 hour shift	1700	300	1700	300	1700	300	1700	300	1700	300	1700	300	1700	300	1700		1700	300	1700	300	1700	300	1700	300	1700		1700	
10 hour shift	1900	500	1900	500	1900	500	1900	500	1900	500	1900		1900	500	1900		1900	500	1900	500	1900	500	1900	500	1900	_	1900	
TO HOUR SHIFT	1900	500	1900	500	1900	500	1900	500	1900	300	1900	500	1900	500	1900	300	1900	500	1900	300	1900	300	1900	500	1900	500	1900	300

Fire-Single Gatekeeper: 8-Hour Shifts Only

								Weel	k1													Week 2	1						
Fire Option 2	BOT	BOT	BO	T EO	π le	OT	FOT	_		OT FOT	I BC	IT ROI	r le	OT E	EOT	BOT	EOT	BOT	EOT	BOT BOT	г Во	-		ют	EOT	BOT E	от Во	T FO	r
24 hours A. B. CPotation			500	700	1500	700	1500		1500	700	1500	700	1500	700	1500		1500	700		700	1500	700	1500	700	1500		1500	700	1500
24 hours A. B. CRotation	_		500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500		1500	700	1500
24 hours A. B. CRotation			500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500		1500	700	1500
24 hours A. B. CFbtation	_		500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500		1500	700	1500
24 hours A. B. CRotation	-		500	700	1500	700	1500		1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500		1500	700	1500
24 hours A. B. CRotation			500	700	1500	700	1500		1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500		1500	700	1500
24 hours A. B. CRotation	_		500	700	1500	700	1500		1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500		1500	700	1500
24 hours A, B, CRotation	7		500	700	1500	700	1500		1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500		1500	700	1500
24 hours A, B, CRotation	7	00 15	500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500
24 hours A, B, CRotation		_	500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500		1500	700	1500
24 hours A, B, CRotation	-	_	500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500		1500	700	1500
24 hours A, B, CRotation	-		500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500
24 hours A, B, CRotation	15	00 23	300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CRotation	15	00 23	300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CPotation	15	00 23	300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CRotation	15	00 23	300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CRotation	15	00 23	300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CRotation	15	00 23	300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CRotation	15	00 23	300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CRotation	15	00 23	300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CRotation	15	00 23	300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CRotation	15	00 23	300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CRotation	15	00 23	300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CRotation	15		300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CRotation	23		700	2300	700	2300	700		700	2300	700	2300	700	2300	700		700	2300	700	2300	700	2300	700	2300	700		700	2300	700
24 hours A, B, CPotation	23		700	2300	700	2300	700		700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700
24 hours A, B, C Potation	23	_	700	2300	700	2300	700		700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700		700	2300	700
24 hours A, B, CRotation	23		700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700		700	2300	700
24 hours A, B, CRotation	23		700	2300	700	2300	700		700	2300	700	2300	700	2300	700		700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700
24 hours A, B, CFbtation	23		700	2300	700	2300	700		700	2300	700	2300	700	2300	700		700	2300	700		700	2300	700	2300	700		700	2300	700
24 hours A, B, CRotation	23		700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700		700	2300	700
24 hours A, B, CRotation	23		700	2300	700	2300	700		700	2300	700	2300	700	2300	700		700	2300	700	2300	700	2300	700	2300	700		700	2300	700
24 hours A, B, CFbtation	23		700	2300	700	2300	700		700	2300	700	2300	700	2300	700		700	2300	700	2300	700	2300	700	2300	700		700	2300	700
24 hours A, B, CRotation	23		700	2300	700	2300	700		700	2300	700	2300	700	2300	700		700	2300	700	2300	700	2300	700	2300	700		700	2300	700
24 hours A, B, CRotation	23		700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700		700	2300	700	2300	700	2300	700	2300	700		700	2300	700
24 hours A, B, CFbtation	23		700	2300	700	2300	700		700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700		700	2300	700
8 hour shift	_	10	500	700	1500	700	1500	100	1500	700	1500	700	1500	700	1500	100	1500	700	1500	700	1500	700	1500	700	1500	100	1500	700	1500
8 hour shift			500	700	1500	700	1500		1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500		1500	700	1500
8 hour shift	_		500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500		1500	700	1500
8 hour shift	_		i00	800	1600	800	1600	800	1600	800	1600	800	1600	800	1600	800	1600	800	1600	800	1600	800	1600	800	1600		1600	800	1600
8 hour shift	15		300	1500	2300	1500	2300		2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300		2300	1500	2300
8 hour shift	15		_	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
8 hour shift	15	**	_	1500	2300	1500	2900	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
8 hour shift	16	00 24	100	1600	2400	1600	2400	1600	2400	1600	2400	1600	2400	1600	2400	1600	2400	1600	2400	1600	2400	1600	2400	1600	2400	1600	2400	1600	2400

							Week 1														We	ek 2						
24 hours A, B, CRotation	700 EOT	1500	700 BO	7T BX	OT BOT	1500		1500	700 EOT	1500	BOT BOT	1500	700 BOT	1500	T E	1500	OT 700	EOT BO 1500	700	DT 1500	BOT 700		700 E	DT 1500	BOT B	DT E	700 BOT	T 1500
24 hours A, B, CRotation	700	1500	700	1500	700	1500	700 700	1500	700	1500	700 700	1500	700	1500	700	1500	700	1500	700	1500	700		700	1500	700	1500	700	1500
24 hours A, B, CRotation	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500
24 hours A, B, CRotation	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500
24 hours A, B, CRotation 24 hours A, B, CRotation	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500
24 hours A, B, CRotation	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500
24 hours A, B, CRotation	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500
24 hours A, B, CRotation	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500
24 hours A, B, CRotation 24 hours A, B, CRotation	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700	1500 1500	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500
24 hours A, B, CRotation	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500
24 hours A, B, CRotation	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500
24 hours A. B. CRotation	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500 1500	700	1500	700	1500	700	1500	700	1500	700	1500
24 hours A, B, CRotation 24 hours A, B, CRotation	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700 700	1500	700 700	1500 1500	700 700	1500 1500	700 700	1500 1500	700	1500 1500	700 700	1500 1500
24 hours A, B, CRotation	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500
24 hours A, B, CRotation	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500
24 hours A, B, CRotation 24 hours A, B, CRotation	700 700	1500	700 700	1500 1500	700 700	1500	700 700	1500 1500	700 700	1500	700 700	1500 1500	700 700	1500	700 700	1500 1500	700 700	1500 1500	700	1500 1500	700 700	1500 1500	700 700	1500 1500	700	1500 1500	700 700	1500 1500
24 hours A, B, CRotation	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500	700	1500
24 hours A, B, CRotation	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CRotation	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CRotation 24 hours A, B, CRotation	1500	2300	15 0 0	2300	1500 1500	2300 2300	1500	2300	1500 1500	2300 2300	1500 1500	2300 2300	1500 1500	2300	1500 1500	2300												
24 hours A, B, CRotation	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CRotation	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A. B. CRotation	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CRotation 24 hours A, B, CRotation	1500 1500	2300	15 0 0	2300	1500 1500	2300 2300	1500 1500	2300	1500 1500	2300 2300	1500 1500	2300	1500 1500	2300	1500 1500	2300												
24 hours A, B, CRotation	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CRotation	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A. B. CPotation	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CRotation 24 hours A, B, CRotation	1500 1500	2300	1500 1500	2300	1500 1500	2300	1500 1500	2300	1500 1500	2300	1500 1500	2300 2300	1500 1500	2300	1500 1500	2300 2300	1500 1500	2300	1500 1500	2300	1500 1500	2300 2300	1500 1500	2300 2300	1500 1500	2300	1500 1500	2300
24 hours A, B, CRotation	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CRotation	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CRotation 24 hours A, B, CRotation	1500 1500	2300	1500 1500	2300	1500 1500	2300	1500 1500	2300	1500 1500	2300	1500 1500	2300	1500 1500	2300	1500 1500	2300	1500 1500	2300	1500 1500	2300	1500 1500	2300 2300	1500 1500	2300 2300	1500 1500	2300	1500 1500	2300
24 hours A, B, CRotation	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CRotation	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CRotation	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300	1500	2300
24 hours A, B, CRotation 24 hours A, B, CRotation	2300	700	2300	700	2300	700 700	2300	700 700	2300 2300	700 700	2300	700 700	2300 2300	700 700	2300	700 700	2300	700 700	2300	700 700	2300 2300	700 700	2300	700 700	2300	700 700	2300	700 700
24 hours A, B, CRotation	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700
24 hours A, B, CRotation	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700
24 hours A, B, CRotation	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700
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24 hours A, B, CRotation	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700
24 hours A, B, CRotation	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700	2300	700
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8 hour shifts	1700	100	1700	100	1700	100	1700	100	1700	100	1700	100	1700	100	1700	100	1700	100	1700	100	1700	100	1700	100	1700	100	1700	100
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Total Implementation Schedule

Radio programming needs to occur first . . .

. . . then, full implementation can begin.

Call intake (includes defining and bidding new schedules) 2 months Fire workstations 4 months Law Workstations (added capacity) 1 month 4 months Law Workstations (overnight consolidation)

Total Implementation 11 months

Agencies can elect to 'buy' a higher level of service . . .

Questions

