STAFFING ESTIMATION WORKSHEETS

A six step process for estimating the number of employees needed:

- Step 1: Identify the type of position you wish to analyze;
- Step 2: Determine employee availability (Worksheet A, NAWH)
- **Step 3:** Determine your turnover rate (Worksheet B)
- **Step 4:** Select the appropriate formula and analyze all positions (Worksheets C, D, E)
- Step 5: Compare the number of staff you have with the number you need (Worksheet F)
- **Step 6:** Do a reality check using quality indicators.

Worksheet A: Determining Employee Availability



Calculate Average Turnover Rate		Year					Average
		2004	2005	2006	2007	2008	Average
A	Total number of employees at the highest staffing level for that year	28	30	30	32	35	31
В	Number of new hires that failed to complete the probationary period	8	10	8	3	7	7.2
С	Number of experienced employees who left for any reason*	7	4	5	3	2	4.2
D	Turnover Rate (Turnover = B + C ÷ A)	54%	47%	43%	20%	26%	37%
E	Retention Rate (Retention = 1 – Turnover) x 100	46%	53%	57%	80%	74%	63%

Worksheet B: Calculating Average Turnover Rate

*Include all experienced employees who left for voluntary or involuntary reasons (e.g. turnover initiated by the employee, rotation, retirement, death, management action, etc.)

Worksheet C: Calculating Staffing for Coverage Positions

Estimate Staffing Needed for Coverage Positions						
Note: Coverage positions must be covered regardless of call volume or level of activity.						
Position: Radio						
Hours needing coverage: 24 hours						
A3_	Total number of consoles that need to be covered for this position					
B24	Number of hours per day that need to be covered					
C7	Number of days per week that need to be covered					
D52	Number of weeks per year that need to be covered					
E. 26208_	Total Hours needing coverage = A x B x C x D					
Employee Ava	Employee Availability:					
F. _1604	Net Available Work Hours - enter average NAWH from worksheet					
Staff Needed:						
G16 Full Time Equivalent base estimate (FTE) = E ÷ F						
H37_ Turnover Rate - from retention worksheet, convert to decimal						
I21	Full Time Equivalent required to accommodate turnover, prior to any adjustments based on quality indicators: $FTE = G \times (1 + H)$					
21 = Estimated Staffing Need (in FTEs from Step I above)						
FTE = Hours needing coverage ÷ Employee Availability x Turnover Adjustment						

Worksheet D: Calculating Hourly Processing Capability

Calculate Hourly Processing Capability					
A03 minutes	Average telephone busy time (call duration in minutes, using decimals), from phone records				
B5 minutes	Average call completion time (in minutes, this includes time for data entry, address verification, etc.)*				
C5.03 minutes	Average Processing Time (APT) = A + B				
D12 calls hourly	Average Hourly Processing Capability (HPC) = 60 ÷ APT)				

* Your telephone software may be able to provide detailed information about telephone busy time, but you will have to use other means to determine average wrap-up time.

Worksheet E: Calculating Staffing for Volume-influenced Positions

Estimate Staffing Needed for Volume-influenced Positions						
Note: The number of Volume-influenced positions is based on call volume or activity level.						
Position: DP12						
Workload:	Workload:					
A61,494 ca	alls Total Call Volume for this position (TCV), from phone records					
B. <u>5</u> minutes pe	Average Processing Time for this position (APT), from phone records					
C12_ calls hou	Hourly Processing Capability (HPC) = $60 \div B$					
D5125_ call h	hours Workload in hours (W) = $A \div C$					
Employee Availabili	ty:					
E1604 Ne	E1604 Net Available Work Hours - enter average NAWH from worksheet					
F67 Ag ho	Agent Occupancy rate - enter AO, convert percent to decimal (1604/24 hours = 66.8% or .67)					
G1075_ Tr	ue Availability per person (TA) = E x F					
Staff Needed:						
H. 4.8 Fu	H. 4.8 Full Time Equivalent base estimate (FTE) = $D \div G$					
I37 Turnover Rate from retention worksheet - convert to decimal						
J7 Full Time Equivalent required to accommodate turnover, prior to any adjustments based on quality indicators: $FTE = H \times (1 + I)$						
7 = Estimated Staffing Need (in FTEs from Step J above)						
FTE = Workload ÷ Employee Availability x Turnover Adjustment						

	Compare Current Staffing with Estimated Staffing Needs					
	Total Call Volume: 336,532					
DRK	Total Emergency Calls: 104,389					
Ň	Average Processing Time: 5	Current	Estimated Need			
	Hourly Processing Capability: 12	Staffing				
	Coverage Positions:					
	3.5	25	25			
	Volume-influenced Positions:					
	3.5	21	21			
ERS						
DRKI	Function Positions:					
M						
	TOTALS	46	46			

Worksheet F: Comparison and Summary of Staffing Estimates