## City of Berkeley, CAl Communication Center



# Needs Assessment and Recommendations Presentation May 15, 2023

Federal Engineering, Inc.
"Unleashing the Power of Technology"

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## Introductions



- Federal Engineering Core Team Members
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## Project Overview



- Project Overview
  - ECC Study for Prioritized Dispatch for medical and fire
- Additional Scope
  - Assess Dispatch Services for Albany and Piedmont Fire
  - Specialized Care Unit (SCU) Assessment

## Project Methodology



- Methodology
  - Data Collection
  - On Site Interviews & Observation
  - Analysis
  - Report

## Areas of Focus:



- 1. ORGANIZATIONAL ANALYSIS
- 2. STAFFING AND WORKLOAD ANALYSIS
- 3. FACILITY ANALYSIS
- 4. CALL PROCESSING AND WORKFLOW ANALYSIS
- 5. CRISIS RESPONSE
- 6. TRAINING PRACTICES & QA REVIEW
- 7. TECHNOLOGY ANALYSIS
- 8. ASSUMING DISPATCH FOR PIEDMONT & ALBANY

## High Level Summary of Recommendations



## **IMMEDIATE PRIORITIES:**

- 1. STAFFING
- 2. RECRUITING
- 3. FACILITY
- 4. TRAINING



## Staffing Recommendations



Immediately adopt staffing analysis recommendations

Comment – FE does not recommend implementing planned initiatives until staffing issues have been resolved.

## Recruiting Recommendations



## Accelerate the recruiting process.

- Streamline the current process to reduce time to onboard
- Incentivize recruiting to attract quality candidates (both entry level and experienced)
  - Wages
  - Lateral Hire



## Facility Recommendations



Expand the footprint of the ECC to accommodate the additional workstations required for full staffing.

- Create a back up site that doubles as a Training Facility
- Establish a fully functional Training room

## Training Recommendations



Implement a Training & QA Coordinator position to plan, coordinate and support recruitment and training initiatives.

- Candidate must be trained in Emergency Dispatch QA (ED-Q)
- Design and implement CTO Training
- Create and implement Supervisor Training
- Prioritize continuing education and professional development

## DETAILED OVERVIEW



## A Deeper Dive into Scope Of Work Observations & Recommendations

## 1. ORGANIZATIONAL ANALYSIS



- The ECC is located within police headquarters, and is managed and funded by Berkeley PD
- There is a perception that the ECC favors police call processing and dispatch operations
- Communications Center Manager position has now been staffed.

## 1. ORGANIZATIONAL ANALYSIS



#### Recommendations:

- Work towards an independent Communications
   Center with its own leadership and support model
- Require that ECC leadership have Emergency Communications Center experience
- Take steps to address and improve workplace culture



## 2. STAFFING & WORKLOAD ANALYSIS



- There are currently fifteen vacant PSD positions in the ECC
- Minimum staffing requirements do not support current call volume and workload
- The "Horizontal" call processing model would be better suited to Berkeley ECC operations (i.e., dedicated call takers/dedicated dispatchers)

## 2. STAFFING & WORKLOAD ANALYSIS



#### Recommended Staffing with Turnover – Berkeley ECC

Position Title	Total Number of Employees		
Shift Supervisors	9		
Dispatchers	27		
Call-Takers	23		
Total PSAP Staff	59		
Total with Center Manager	60		

## 2. STAFFING & WORKLOAD ANALYSIS



Berkeley ECC - Staffing Recommendations							
			Call-				
	% Per	Per Hour	Takers	Dispatch	Supervisor	Total	
Hour	Hour	for Month	Needed	Needed	Needed	Positions	
0:00	2.36%	15.7	3	4	1	8	
1:00	2.28%	15.2	3	4	1	8	
2:00	2.26%	15.0	3	4	1	8	
3:00	1.67%	11.2	2	4	1	7	
4:00	1.61%	10.7	2	4	1	7	
5:00	1.71%	11.4	2	4	1	7	
6:00	2.07%	13.8	2	4	1	7	
7:00	3.34%	22.2	3	4	1	8	
8:00	4.44%	29.6	4	4	2	10	
9:00	5.37%	35.8	4	4	2	10	
10:00	5.53%	36.9	4	4	2	10	
11:00	6.33%	42.2	4	4	2	10	
12:00	6.12%	40.8	4	4	2	10	
13:00	5.89%	39.3	4	4	2	10	
14:00	6.38%	42.5	4	4	2	10	
15:00	6.89%	45.9	5	4	2	11	
16:00	6.51%	43.4	5	4	2	11	
17:00	5.28%	35.2	4	4	2	10	
18:00	4.96%	33.1	4	4	2	10	
19:00	4.79%	31.9	4	4	2	10	
20:00	4.19%	27.9	4	4	2	10	
21:00	3.44%	22.9	3	4	1	8	
22:00	3.16%	21.0	3	4	1	8	
23:00	3.41%	22.7	3	4	1	8	
TOTAL	100.00%	666.4	3.46	4.00	1.54	9.00	



## 2. STAFFING & WORKLOAD ANALYSIS (cont'd)



### Recommendations:

- Increase overall staffing from 32 currently authorized to 59 overall positions (60 with Center Manager)
- Implement recommended minimum staffing levels each shift
- Continue cross training staff
- Ensure dedicated Supervisor on duty who does not work frontline roles
- Span of control for Supervisors is 3 7 employees



## 3. HIGH LEVEL FACILITY ANALYSIS



- ECC has outgrown the current facility no room for growth.
- There is no ECC back-up site
- There is a need for a structured evacuation plan
- There is a need for a functional training room



## 3. HIGH LEVEL FACILITY ANALYSIS



#### Recommendations:

- Renovate and expand current ECC facility
- Establish a back-up site
- Define a structured evacuation plan
- Establish a functional training room
- Establish an ECC Manager's office



## 4. CALL PROCESSING & WORKFLOW ANALYSIS



- ECC as Primary PSAP does not provide scripted Pre-Arrival Instructions (PAIs) for medical, fire or police calls for service
- Current call processing methodology requires redundant creation (duplication) of medical call for service in order to comply with response requirements

## 4. CALL PROCESSING & WORKFLOW ANALYSIS



## Observation (continued):

- There are too many number based codes (with no type codes) that must be memorized by ECC staff
- There is no CAD to CAD interoperability between the ECC and the secondary PSAP (ACRECC)

## 4. CALL PROCESSING & WORKFLOW ANALYSIS



### Recommendations:

- Conduct a detailed call-taking and business process analysis to identify efficiencies/risks and streamline process
- Create an ECC/ACRECC CAD to CAD interface
- Implement EMD/EFD scripted protocol systems to increase efficiencies and provide real-time information and access to pre-arrival instructions
- Plan to phase-in EPD scripted protocols



## 5. CRISIS RESPONSE ANALYSIS



- There is no formalized process to identify, categorize, triage or dispatch calls that are appropriate for the Specialized Care Unit (SCU)
- Staff at the ECC have not been included in planning and feel disconnected from the program
- There is no understanding of how 988 transfers will be conducted from the ECC



## 5. CRISIS RESPONSE ANALYSIS



## Recommendations:

## FE facilitate a workshop for all stakeholders to:

- Discuss the establishment of a protocol to enable a preliminary triage system, workflow, and process for SCU dispatch
- Improve understanding of the SCU Program
- Facilitate a working linkage between the practitioners and ECC dispatch personnel



## 6. TRAINING PRACTICES & QA REVIEW



- There is no dedicated Training Coordinator position
- Training is conducted by ECC supervisory staff and designated CTOs
- Consists of a combination of classroom and 'at the workstation' training
- No simulation training in classroom (shadowbased)
- No formalized Supervisor or CTO Training



## 6. TRAINING PRACTICES & QA REVIEW



## Observation (continued):

- Mandatory POST training requires overtime
- No built-in training days on current schedule and minimum staffing levels
- Quality Assurance program has been developed, however there has been no staff to conduct reviews

## 6. TRAINING PRACTICES & QA REVIEW



## Training Practices Recommendations:

- Create and implement a Training and Quality
   Assurance Coordinator position as soon as possible in order to:
  - Plan, coordinate and support the recruitment and training of new personnel
  - Revamp current training manual
  - Develop and deliver a QA/QI program for the ECC
  - Strive for accreditation



## 7. TECHNOLOGY ANALYSIS



- Tyler CAD system has the capability to interface with EMD software
- Station alerting system is not automated
- Protocol system implementation will require additional IT resources



## 7. TECHNOLOGY ANALYSIS



#### Recommendations:

- Establish a fully automated station-alerting system that is integrated with CAD
- Implement a two-way interface with ACRECC to receive medical call information and updates in both CAD and MDTs



- 9-1-1 call taking and dispatch only for fire will be transitioned, not admin line call answer
- The daily call volume & workload for the agencies is not significant in comparison to Berkeley Fire call volume
- There will be delays in call processing due to the transfer time of 9-1-1 calls from the Primary 9-1-1 PSAP to Berkeley ECC



## Observation (continued):

**Technology Considerations** 

- Piedmont has the same CAD system (Tyler) as Berkeley, Albany has RIMS. All fire dispatch would occur on Berkeley ECC Tyler CAD.
- Interfaces needed for Fire RMS, ePCR, CAD to CAD with UC Berkeley PD, Oakland & ACRECC, and Fire Station Alerting

Observation (continued):

**ECC Impacts** 

- Training for Dispatchers
  - Area Familiarization
  - Policies and Procedures
  - Fire Department-specific Training
- Ensure streamlined procedure so fire call taking is the same process for all fire agencies, and not 3 different ways



#### Recommendations:

- The addition of both Piedmont and Albany Fire Dispatch should be considered once staffing levels increase
- Consider onboarding the agencies after EMD implementation and improvements to the Berkeley training program have occurred

## QUESTIONS?





