



Apparatus Deployment Review

August 2021

LS LEE'S SUMMIT
MISSOURI



History of the FD Recommendation

- Current Deployment Model
- 2018-2023 Strategic Plan
 - Community Priorities
 - Community Expectations
 - Goal 5
- 2019 Standards of Cover: Immediate (within 12 months) Recommendations
 - Recommendation 5
 - Recommendation 6
- Data Review
- Recommendation

Station Locations and Current Apparatus Deployment

LEE'S SUMMIT FIRE DEPARTMENT

COMMUNITY RISK ASSESSMENT-STANDARDS OF COVER

Map 15: Seven Stations within Lee's Summit
(including contract cities of Unity Village and Greenwood)



Station No.	Pumper	Truck	Ambulance
1	X		X
2		X	X
3	X		
4	X		X
5	X		X
6	X		X
7		X	X

Pumper/Truck = 3 personnel minimum

Ambulance = 2 personnel minimum

2018-2023 Strategic Plan: Community Priorities



Community Group Findings

A key element of the Lee's Summit Fire Department organizational philosophy is having a high level of commitment to the community, as well as recognizing the importance of community satisfaction. Thus, the agency invited community representatives to provide feedback on services provided.

Community Priorities

To best dedicate time, energy, and resources to services most desired by its community, the Lee's Summit Fire Department needs to understand what the customers consider to be their priorities. With that, the external stakeholders were asked to prioritize the programs offered by the agency through a process of direct comparison. The results are shown here:

Programs	Ranking	Score
Emergency Medical Services	1	335
Fire Suppression	2	305
Rescue – Basic and Technical	3	278
Hazardous Materials Mitigation	4	182
Domestic Preparedness Planning and Response	5	172
Community Risk Reduction	6	141
Public Fire and Life Safety Education	7	109
Fire Investigation	8	102



External Stakeholders Work Session

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2018-2023 Strategic Plan: Community Expectations



Community Expectations

Understanding what the community expects of its fire and emergency services organization is critically important to developing a long-range perspective. With this knowledge, internal emphasis may need to be changed or bolstered to fulfill the community needs. In certain areas, education on the level of service that is already available may be all that is needed.

Respondents were asked to list, in priority order, up to five expectations they have for the agency. Responses were then analyzed for themes and weighted. The weighting of the prioritized expectations was as follows: if it was the respondent's first entry, then it received five weighted points. Weighting gradually decreased so that if it was the respondent's fifth entry, then it received one weighted point. The weighted themes were then sorted from the highest cumulative weight to the lowest cumulative weight and listed below. The numbers in the parentheses are the cumulative weighted value that correlated with the theme identified. While the themes are listed in prioritized, weighted order, all responses were important in the planning process. The following are the expectations of the community's external stakeholders prioritized and weighted accordingly:

Community Expectations of the Lee's Summit Fire Department (verbatim, in priority order)

1. Fast and effective fire and emergency response. Timely, professional response when called. Immediate and confusion-free response to the address and location. Prompt response time. Prompt response to calls. To arrive at any emergency within 5 minutes or less. (141)
2. Training employees and trainers to "practice" as part of training. Well-trained paramedics, as well as firefighter response. Knowledge. Well trained in all aspects of safety and rescue. Adequate training to interact with the people they serve including: mental illness, substance use, etc. (103)
3. Ability to do quality initial medical-related response. Ability to bring to bear any training and equipment required in the course of an EMT call or fire emergency. Assessing the situation quickly and implementing the plan swiftly. Provide medical assistance until EMTs arrive. Quality. Maintain your superior services. Provide reliable EMT and ambulance service. (69)
4. Up-to-date equipment - in good repair, latest technology. Updated and "best in class" technology, equipment, and tools. Adequate equipment to do the job effectively. Up-to-date equipment and fire apparatus. (66)
5. Community education. Educating the public on fire safety. Offer CPR training to organizations (Boy Scouts of America, churches, etc.). Community education participation (fire prevention, CPR training, etc.). Provide classes in safety for the public. (56)



1. Fast and effective fire and emergency response. Timely, professional response when called. Immediate and confusion-free response to the address and location. Prompt response time. Prompt response to calls. To arrive at any emergency within 5 minutes or less. (141)

2018-2023 Strategic Plan-Goals

“Objective 5E: Maintain and enhance the current staffing plan to provide a long-term delivery of service.

- Evaluate current staffing effectiveness.
- Annual review of staffing plan
- Evaluate current staffing plan for feasibility and future organizational and community needs.
- Identify and recommend alternative staffing options to meet goals and objectives of the CRA-SOC.



2019 Community Risk Assessment-Standards of Cover

LEE'S SUMMIT FIRE DEPARTMENT

COMMUNITY RISK ASSESSMENT-STANDARDS OF COVER

Recommendations for Improved Effectiveness in Deployment and Coverage

Immediate (within 12 months) Recommendations:

1. The analysis of this community risk assessment and current mitigation capabilities to deploy and respond to those risks indicates that the greatest immediate needs for the department are staffing increases for the communications center, operations division, and administration divisions. Therefore, it is recommended that the department leadership begin working with city leaders to identify sustainable revenue streams that can support these expansion needs.
2. To generate funding for these recommendations, the department should work collaboratively with other city resources to support the research, evaluation, and application process for grant funds that could potentially offset the costs associated with departmental expansion and continuous improvement strategies.
3. To become more proactive, it is recommended the department collaborate with city staff to identify and formalize expansion triggers for the department that adhere to the 4-minute travel time identified in NFPA 1710 and the 1.5-mile travel distance recommended by ISO. To continue to meet the needs of the community as it develops, ensure that these triggers are included in the city's comprehensive build-out plans for future development, and encourage the use of development incentives to fund new stations when proposed development exceeds deployment capabilities to meet NFPA 1710 response performance standards.
4. Conduct comprehensive strategic planning evaluation in anticipation of potential Station 4 and Station 5 relocation/reconstruction. These response districts are extremely vulnerable due to their existing gaps in coverage, and any relocation must consider NFPA 1710 response time recommendations and ISO travel distance recommendations. Without additional stations being constructed and staffed in these districts, the department must continue to provide the maximum protection to these districts from a single deployment location.
5. To address the community risk identified through this assessment, the department should add an additional rescue (ambulance) once Station 3 is constructed. District 3 has the highest EMS demand by district and currently relies on adjacent district rescues to respond. To improve response times and service delivery in the community, Station 3 needs a rescue.
6. If Rescue 3 and the associated staffing expansions are denied or delayed, the department should consider repositioning Rescue 7 to Station 3. District 3 has the highest EMS demand by district and currently relies on adjacent district rescues to respond. Given the geographical positioning of Station 3, the infrastructure in the immediate area may allow for greater resiliency against the demand to cover

2019 Standards of Cover-Immediate Recommendation

“5. To address the community risk identified through this assessment, the department should add an additional rescue (ambulance) once Station 3 is constructed. District 3 has the highest EMS demand by district and currently relies on adjacent district rescues to respond. To improve response times and service delivery in the community, Station 3 needs a rescue.”



2019 Standards of Cover-Immediate Recommendation

“6. If Rescue 3 and the associated staffing expansions are denied or delayed, the department should consider repositioning Rescue 7 to Station 3. District 3 has the highest EMS demand by district and currently relies on adjacent district rescues to respond. Given the geographical positioning of Station 3, the infrastructure in the immediate area may allow for greater resiliency against the demand to cover other districts within the community. If Rescue 7 is repositioned to Station 3, evaluate the ability to replace a Rescue in District 7 as soon as possible.”



Data Review

2020	District 1		District 2		District 3		District 4		District 5		District 6		District 7	
Response by Med Unit by Dist.	App Assigned	% of Total	App Assigned	% of Total	App Assigned	% of Total	App Assigned	% of Total	App Assigned	% of Total	App Assigned	% of Total	App Assigned	% of Total
Med 1	1071	66.6%	240	14.8%	875	50.3%	32	2.6%	68	7.6%	218	16.7%	30	10.0%
Med 2	283	17.6%	1041	64.3%	129	7.4%	167	13.5%	12	1.3%	78	6.0%	4	1.3%
Med 4	14	0.9%	95	5.9%	25	1.4%	1000	80.8%	2	0.2%	42	3.2%	3	1.0%
Med 5	31	1.9%	106	6.6%	56	3.2%	3	0.2%	705	78.9%	120	9.2%	27	9.0%
Med 6	100	6.2%	84	5.2%	23	1.3%	23	1.9%	11	1.2%	807	61.9%	5	1.7%
Med 7	108	6.7%	52	3.2%	630	36.2%	12	1.0%	96	10.7%	39	3.0%	231	77.0%
Total District Responses	1607		1618		1738		1237		894		1304		300	
Response by Med Unit	Med 1		Med 2				Med 4		Med 5		Med 6		Med 7	
Med Unit Total In District	1071	42.3%	1041	60.7%			1000	84.7%	705	67.3%	807	76.6%	231	19.8%
Med Unit Total Out of District	1463	57.7%	673	39.3%			181	15.3%	343	32.7%	246	23.4%	937	80.2%
Total Med Unit Responses	2534		1714				1181		1048		1053		1168	

Next Plan of Action

- Follow the 2019 Standard of Cover Immediate Recommendation # 6
 - Until revenues can be identified to fund the personnel and capital expansions for a 7th Ambulance-the current Med 7 should be relocated to Station No. 3



QUESTIONS