









Fireground Operations: Structure Fires and Associated Personnel Requirements

What Happens When a Structure Fire is Reported?

Leavenworth County Dispatch Receives Call and Enters Information Into Computer Aided Dispatch (CAD)

Computer Aided Dispatch (CAD)
Recognizes:

- Address
- Mutual Aid Box Alarm System (MABAS)
- Address History

Dispatch Sent via Radios and Pagers to Fire, Police, and EMS

Fire District No. 1, Mutual Aid Box Alarm System (MBAS)

		_			
(N) Stranger Rd / (W) 187th St	(N) Stranger Rd / (E) 187th St		Excludes Lansing City	Within City Limits	
Fire District No. 1	Fire District No. 1		Fire District No. 1	Fire District No. 1	
City of Leavenworth (Engine Co.)	City of Leavenworth (Engine Co.)		City of Leavenw orth (Engine Co.)	City of Leavenworth (Engine Co.)	
Ft. Leavenw orth (Engine Co.)	Ft. Leavenw orth (Engine Co.)		Fairmount (Engine Co.)	Fairmount (Engine Co.)	
Kickapoo Tow nship (Tender)	Ft. Leavenw orth (Tender)		Ft. Leavenw orth (Tender)		
Alexandria Township (Tender)	Kickapoo Tow nship (Tender)				
(S) Stranger Rd / (W) 187th St	(S) Stranger Rd / (E) 187th St		(S) of 4H (W) of U73 excludes Lansing	(S) of 4H (E) of U73 Excludes Lansing	
Fire District No. 1	Fire District No. 1		Fire District No. 1	Fire District No. 1	
City of Leavenworth (Engine Co.)	City of Leavenworth (Engine Co.)		City of Leavenw orth (Engine Co.)	City of Leavenw orth (Engine Co.)	
Tonganoxie City (Engine Co.)	Fairmount Tow nship (Engine Co.)		Fairmount (Engine Co.)	KCK (Engine Company)	
Alexandria Township (Tender)	Stranger Township (Tender)		Stranger Tow nship (Tender)	KCK (Tender)	
Tonganoxie Tw p. (Tender)	Tonganoxie Tw p. (Tender)		KCK (Tender)	Fairmount (Tender)	
Mutual Aid Box Alarm System 2nd Alarm (Structure Fires Only)					
High Prairie Township (DISTRICT 1 FIRE)		Г	Delaware Township (DISTRICT 1 FIRE) Lansing City (DISTRICT 1 FIRE)		
(N) Stranger Rd / (W) 187th St	(N) Stranger Rd / (E) 187th St		Excludes Lansing City	Within City Limits	
Easton Tw p. (Tender)	Fairmount (Engine Co.)		KCK (Engine Co.)	Ft. Leavenw orth (Engine Co.)	
Fairmount (Engine Co.)	Alexandria Twp. (Tender)		Tonganoxie Twp. (Tender)		
	Tonganoxie Twp. (Tender)				
(S) Stranger Rd / (W) 187th St	(S) Stranger Rd / (E) 187th St		(S) of 4H (W) of U73 excludes Lansing	(S) of 4H (E) of U73 Excludes Lansing	

KCK (Engine Co.)

Fairmount Twp. (Tender)

Fairmount (Engine Co.)

Stranger Township (Tender)

Tonganoxie City (Engine Co.)

Kickapoo Tw p. (Tender)

Alexandria Twp. (Tender)

Fairmount (Engine Co.)

Kickapoo Twp. (Tender)

Stranger Twp. (Tender)



NFPA Standards, and Guidelines: Supporting On-Scene Personnel Requirements

- NFPA 1710: Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations, and Special Operations to the Public by Career Fire Departments (ISO Criteria)
- NFPA 1521: Standard for Fire Department Safety Officer Professional Qualifications
- NFPA 1561: Standard on Emergency Services Incident Management System and Command Safety
- NFPA 1700: Guide for Structural Fire Fighting

NFPA 1710: 16 Personnel, Minimum (17 If an Aerial Device is Needed)

Establish Incident Command (1)

Establish
Uninterrupted water
supply (1)

Establish an Effective
Water Flow of 300
GPM From 2
Handlines (4)

One Support
Member for Each
Attack and Backup
Line (2)

Establish at least one victim search (2)

Establish team to raise ground ladders (2)

RIT (4)

Aerial Operator If Used (1)

Initial Response For A Structure Fire: City of Lansing (12 Personnel)

Fire District No. 1 (4)

- Chief
- Captain
- Driver/Operator
- Firefighter
- Volunteers ?????

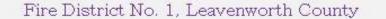
City of Leavenworth (4)

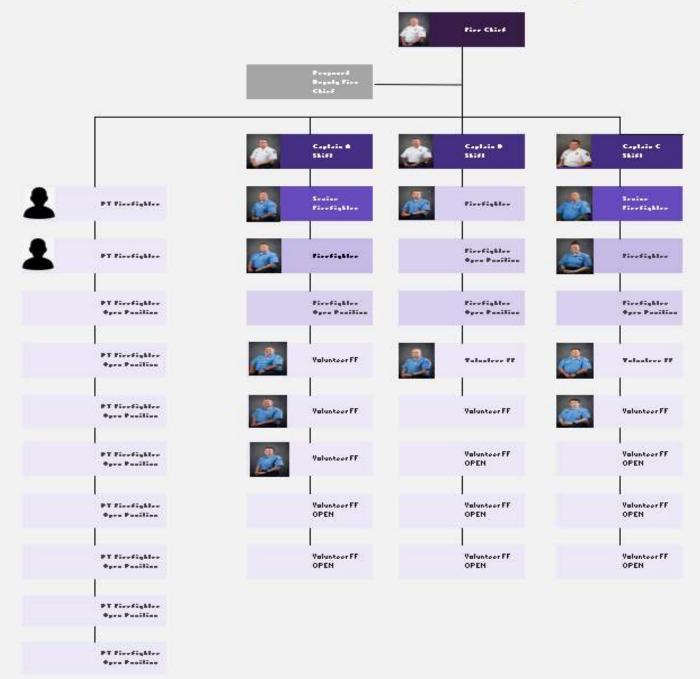
- Battalion Chief
- Captain
- Driver/Operator
- Firefighter

Fairmount Twp. (4)

- Captain Driver/Operator
- Driver/Operator
- Firefighter
- Firefighter

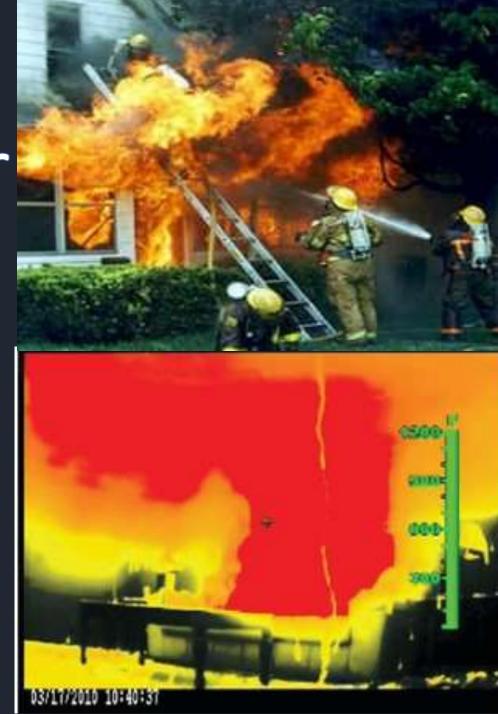
Fire District No. 1: Organizational Chart







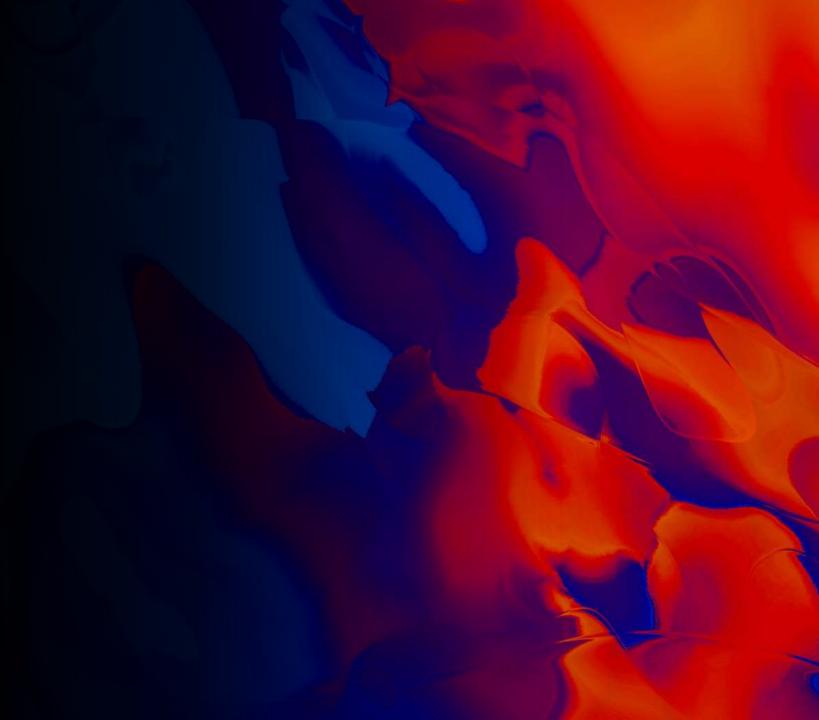






Open Flame to Flashover

- NFPA 921 states, "Research has shown that time to flashover from open flame can be as short as 1-1/2 minutes in a residential fire."
- Modern Day Causes of Decreased Time to Flashover
 - Furniture Made of Synthetic Fabrics
 - Plastics Used in Construction
 - Open Concept



Personnel Requirements Increase as Time Passes on The Emergency Scene

FATIGUE



Personnel Challenges

- Volunteer Firefighters
 Dramatically Decreasing in Numbers
- More Career Firefighters Needed to Account For Fewer Volunteer Firefighters
- Note That Nationwide, There Are Declining Numbers of People Choosing to Become Career Firefighters



Personnel Challenges-Continued

National Trends/Issues

- Fewer Applicants (career and volunteer)
- More Disabling Events
 - **©**Mental Health
 - Physical Injuries

Local Trends/Issues

- Leaving for Larger Departments that Offer:

 - **©**Higher Pay
 - Availability of Specialty Teams
- Uncertainty About the Future of FD1 is Having an Impact

Conclusion

- The Decisions we Make as Leaders Affect the Safety of People and the Preservation of Property.
- Having the Right Numbers of Firefighters with the Appropriate Skill Set is Critical.
- National and Local Trends have made Hiring and Retaining Firefighters Very Challenging.
- Fire District No. 1 is Actively and Aggressively Working to Meet These Challenges.



Questions?

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Fire District No. 1

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