

Presentation Overview

Objectives of Presentation:

- Establish fire & EMS system context
- Inform Council of service vulnerabilities
- Brief Council on system resiliency goals
- Review recommended resources to improve service delivery
- Review financial considerations
- Next steps

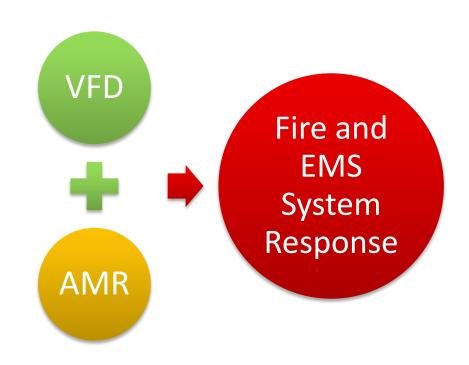


Target Workshop Objectives

- Establish understanding of and direction on:
 - Recommended approach to closing VFD service level gaps
 - Revenue options
 - Desired next steps



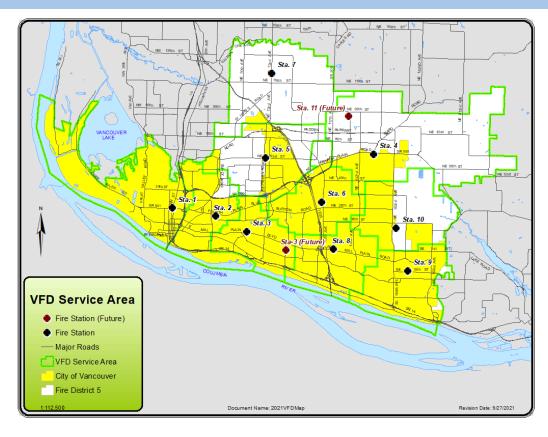
- City of Vancouver service provider – fire suppression, EMS and fire prevention
- Fire District #5 funding partner
- AMR: contract service provider – EMS and ambulance transport





- Service area characteristics
 - 89.2 square miles
 - 288,218 population





- Personnel
 - 182 Suppression
 - 17 Fire Marshal's Office
 - 15 Admin and Support staff
- Stations
 - 10 stations 11th opening 2022
- Apparatus
 - 10 engines
 - 2 trucks
 - 1 rescue



Current biennial budget

2021	2022
\$50.57 m	\$50.12 m

- Cost share:
 - 77.2% City (general fund)
 - 22.8% District #5



VFD Current Service Level

- Service Level Vulnerabilities:
 - VFD is not meeting council adopted service level standards in two key areas:
 - Response times to Priority 1 and 2 EMS
 - Response times to full alarm structure fires
 - Surge capacity and system resiliency
 - Firefighting effective force
 - Truck apparatus coverage



VFD Response Time Performance

Alarm Type	Standard	2020	2020 % met Standard	Number of Calls Received in 2020	% Change over 2019
Priority 1 and 2 Except Marine	7:59	8:23	87.22%	12,160	0.0%
Priority 3 and 4 Except Marine	10:59	8:31	94.91%	8,307	-1.1%
Priority 5 Non-Medical	15:59	10:54	97.91%	3,974	-11.6%
Priority 5 Emergency Medical - Ambulance Only	17:59	16:15	94.22%	8,444	-6.5%
Fire Suppression Full Alarm	15:59	18:45	85.39%	89	45.9%
Aircraft Rescue and Firefighting	15:59	N/A	N/A	0	0
Technical Rescue	60:00	N/A	N/A	0	0
Hazardous Materials	60:00	N/A	N/A	0	0



Plan to Reduce Response Times/Call Concurrency

- Response times are trending up in part due to increasing call volume, call concurrency, and population growth in the VFD service area.
- Adding additional units into the system help with call concurrency and result in decreased overall response times to Priority 1 and 2 calls.
- Adding additional units into the system will allow for a more flexible fire call response, resulting in decreased overall response times to Fire Suppression Full Alarm calls.
- Recommend the addition of three paramedic squads and one ladder truck strategically located into existing fire stations.



Fire Vehicle Differences



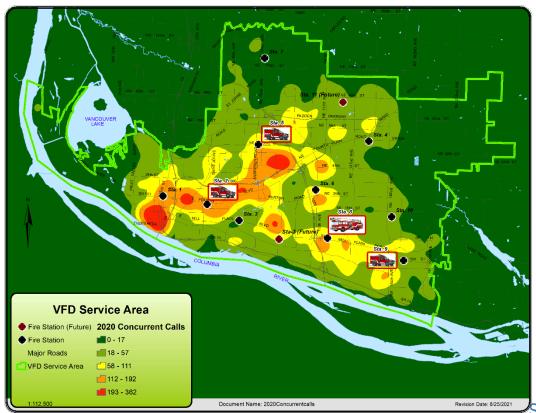
Paramedic Squad

- 2-person staffing
- Quick response vehicle for EMS and Fire Support
- 24/7 readiness

Ladder Truck

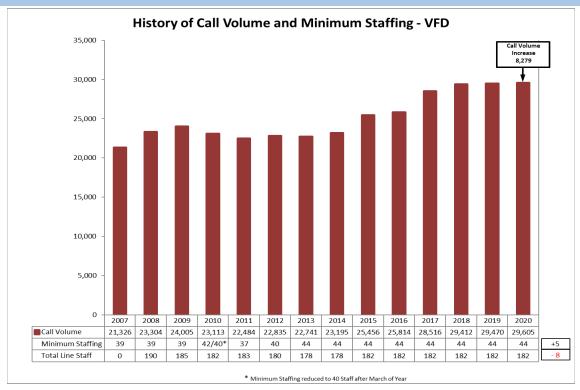
- 4-person staffing
- Elevated hose streams
- Ladder access to upper floors
- Vehicle extrication and special rescue

VFD 2020 Call Concurrency

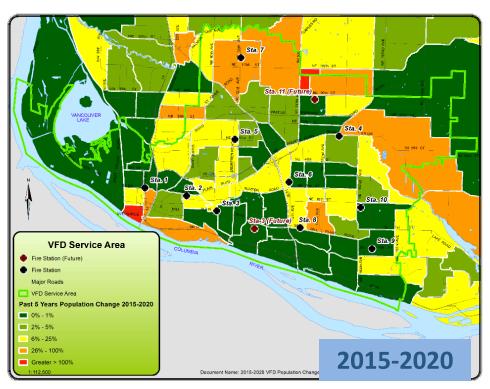


Standard of Cover Options - 12

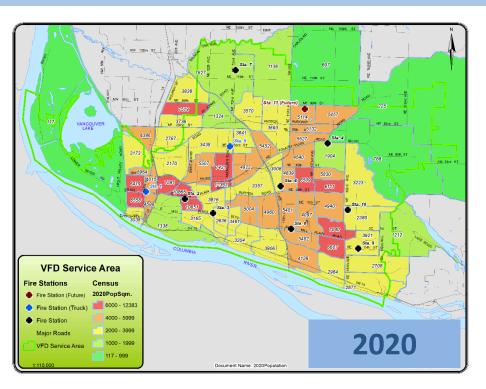
VFD 2020 History of Call Volume and Staffing

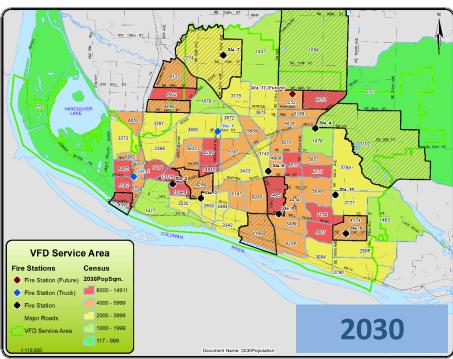


VFD Service Area Past 5 Years Growth

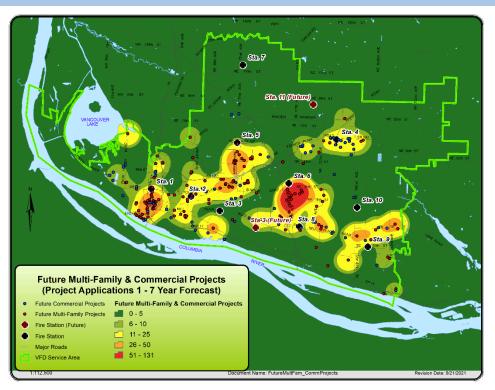


VFD Service Area Population Density





VFD Service Area – Population Projections and Developments



Plan to Address System Resiliency

- Current staffing levels: When VFD has one full alarm fire event along with other typical response incidents, there are only 2-3 units left in the system to cover the Vancouver service area.
- The Fire Department is under resourced to meet minimum service levels, with little capacity for expected city growth.
- Additional units are needed to meet demand.



Plan to Address Firefighting Effective Force

- NFPA recommends a minimum of 15 firefighters for a full alarm assignment.*
- Current VFD Deployment to full alarm: 1 Battalion Chief, <u>4 fire engines</u>
 and 1 truck company = 17 firefighters
- The addition of squads is expected to decrease overall response times and keeps engines in service for other emergencies.

*National Fire Protection Association is a guiding resource and provides best practices. Many jurisdictions do not meet the NFPA response standards.

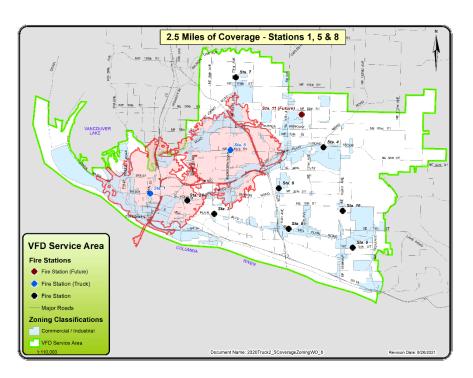


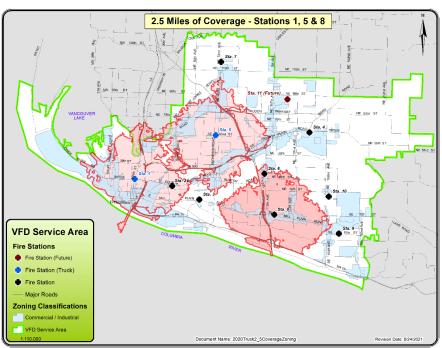
Plan to Address Truck Coverage

- Currently if we have one commercial fire in the VFD service area, both Trucks are committed. This leaves VFD vulnerable to other incidents requiring a truck response.
- NFPA recommends 1 truck for every 2.5 miles of coverage within a city.
- The addition of a truck at Station 8 will:
 - Reduce full alarm response time on the east side of the VFD service area
 - Add capacity and resiliency to the system



VFD Truck Response Coverage





Options

Reinforce current system

- Heavier reliance on AMR+ VFD relationship
- Strained LOS
- Lower cost/user pays

Expand VFD resources

- Improved LOS
- Stronger position to serve future growth
- Increased cost requiring substantial new revenue
- Debt financing required
- District #5 partnership implications

Expand and Enhance VFD Resources & Resilience

- Improved LOS
- Stronger position to serve future growth
- Improved facility resilience
- Increased cost requiring substantial new revenue + debt
- District #5 partnership implications



Recommendation – Expand VFD Resources

- Three(3) Squads
 - 24/7 staffing of 2 fire personnel
 - Proposed locations Stations 2, 5, 9
- One(1) Truck
 - 24/7 staffing of 4 fire personnel
 - Proposed location Station 8 (requires station remodel to accommodate)
- Three(3) Support staff FTE positions to support
 - Training Support
 - Administration Support
 - Logistics Support
- Station alerting enhancements to improve turnout times



Recommendation - Daily Minimum Staffing

Fire Department Daily Minimum Staffing							
Current		Station 11		Proposed			
Resources	Personnel	Resources	Personnel	Resources	Personnel		
10 Engines	30	11 Engines	<u>33</u>	11 Engines	<u>33</u>		
2 trucks	8	2 Trucks	8	3 Trucks	<u>12</u>		
2 - 10hr Rescues*	2	2 - 10hr Rescues*	2	3 Squads	<u>6</u>		
Battalion Chief	2	Battalion Chief	2	Battalion Chief	2		
Totals	42		45		53		

^{* (2} peak hour rescue units with 4 personnel at 10 hour shifts roughly equates to 2 personnel for 24 hours)



Financial Considerations – elements of cost

- Capital costs
 - Apparatus
 - Station remodel
- Ongoing operating costs
 - Personnel
 - Equipment
- Debt Service
- Fire station #11 operating costs (2025 and beyond)



Financial Considerations – projected costs

Cost Component		One-time Capital Costs (assumes debt financing)	TOTAL ANNUAL COSTS (including annual debt service)	
Operating Costs	Staffing and other operating costs		8,992,000	
	Vehicle- related annual costs		285,000	
Capital Costs	Squad vehicle (1 new)	302,000		
	Ladder truck company (1 new)	2,156,000		
	Station 8 remodel	3,151,000		
	Debt Service to fund Equipment and Facility Remodel		692,000	
Station 11	On-Going Funding to Sustain beginning in 2025 Staffing and other operational costs		2,823,000	
	TOTAL PROJECTED ANNUAL COST		12,792,000	
Total costs represent all-inclusive costs to the system, using 2025 as an example of a full year				

Financial Considerations – funding options

- Levy lid lift
 - Single year
 - Multi year
- Fire Impact Fee
 - Rate
 - Applicability
 - Eligible expenses
- District #5 partnership considerations



Summary

- Vancouver Fire has very well-trained firefighters and support staff that provide excellent service to the citizens in the VFD service area.
- Significant investment in fire department system improvements are needed to meet current and future demand.
- This recommendation is to address current system vulnerabilities.
- Ongoing strategic planning is needed to further guide future growth service models.



Next Steps

- City Council direction on service level delivery.
- Further explore & mature funding options
 - Potential ballot 2022?
- Implement system improvements as resources allow.
- Continue to monitor and report system performance and look for improvement opportunities.
- Strategically plan for future growth and improvements.



