Option 1: Reassign Existing Full-time Firefighters from Aerial

Public Risk & Operational Challenges	Incremental Financial Impact
 Longer response times without intervention can result in increased risk for the public With only two responders this truck would be designated "to not respond" as a first due apparatus on certain call types, which currently occurs an average of 88 times per year, delaying response. 	No cost
 New OPs and training would have to occur restricting the capability of the apparatus on initial response and which calls the aerial would be able to respond as a single unit i.e., Medical Tiered Response. 	
Due to the minimum required staffing of 22 does not reduce firefighter overtimeThe location of the firefighters has no impact on minimum fire staffing of 22.	
 Impact on fire ground staffing (minimum 16 firefighters for residential fires and 44 firefighters for high-risk fires) Lowering the capability of aerial in the city core where 75% or more of the fire incidents occur to which the aerial staffing of four is required. Staffing reduction on aerial by two firefighters will impact fire ground staffing in the city core where the highest number (833) of high-risk occupancies exist, including the majority of high rise (6+ stories), institutional and vulnerable occupancies. Frequently the aerial staff are required to achieve minimum fire ground staffing of 16 responders for a residential fire. A reduction in aerial staffing would result in the dependence of the Val Therese career truck to respond into the city core to meet the minimum fire ground staffing. This would leave Valley East without a career response during these periods. 	
 Impact on fire resources – aerial staffing pickup tanker (Long Lake) when called to areas in the city core Fire Services maintains a single tanker response in the city core with water supply challenges such as areas without hydrants or low municipal water flow. Two firefighters from the aerial respond with the tanker to calls while the remaining two respond with the aerial. This ensures the safe and proper operation of both apparatuses. 	
 Although the aerial is not typically a first responding apparatus it is the first unit on scene an average of 88 times per year The aerial is not typically a first responding apparatus, however, it is the first responding vehicle 88 times per year (from 2017 to 2019), and the only vehicle on scene an average of 30 times per year for the same period. Aerial apparatus can and does arrive first on scene when supporting other stations and response areas within the municipality. 	
 Reduced capability of a two-person aerial apparatus (slows deployment and setup of the apparatus) With only two responders this truck would take longer to properly deploy the apparatus to commence elevated operations during fire calls and other types of emergencies. 	
 Reduced emergency response to all occupancy types To address this would require revising the deployment recommends ensuring the aerial would not be a first arriving apparatus, potentially resulting in the need to hold back an emergency response. 	

 Increased response times (medical tiered response, fires and accidents go longer without mitigation) New OPs and training would be required, restricting the calls the aerial would be able to respond as a single response unit (i.e., Medical Tiered Response). 	
 FUS reduces fire protection rating resulting in potential insurance rate increase for property owners Closure of a full-time station within a district that services 75% of all calls would result in a delayed response to the area where the station closure occurred. 	

Option 2: Change Val Therese Station to Volunteer Only

Public Ri	sk & Opei	ational Chall	enges			Incremental Financial
Longer re public • Increas volunte • Increas occasi • Withou incider • Delaye for no Guarante Sudbury) • Statior away f • Statior Theres Due to th • Moving the CE per Art Impact on 44 firefigi • Volunt East. and fire • The ab challer training • The ab respon Increased • Withou require • High c further • Val Th	esponse t sed respon eer first res sing guara ionally Cap ut a 24/7 st ints to prog ed response. ed response. ed response. a 3 (New S from Station a 3 drive til se, 18 minu- g eight Val 3A's require ticle 8:02 con fire ground ticle 8:02 con hters for h eer attrition This impace eground st polity to pro- nge due to g attendam polity to pro- nders could d volunteer at a guarar ear eduction interese volu	imes without hase time of a r sponding units nteed respon- breol from care caffed fire stat ress without in the due to the without is attendance to fing. wide interior fithout is attendance to arrive. wide an effect is arrive. is are not sust is in service le inteers would	intervention c minimum of five s in Valley East. se time to Val C eer firefighters in ion there will be nervention. variability of volu or the Valley is .4 km away from ge): 12 minutes er and 22 minut taffing of 22 dc ighters to the cit inimum staffing Collective Barga minimum 16 fin ge 18.6% per ye erates for emer re attack with tr dance. Val Car ive fire attack w esponse in the calls. ainable for volu vels to bring the see a significar	caron, Val Therese n New Sudbury (La a delay in respon- unteer attendance s coming from St s coming from St s coming from St n Station 16 (Val T s to Val Caron, 15 es to Capreol. Des not reduce fir ty core does not re- of 22 firefighters of aining Agreement. refighters for resi ear over the past th gency calls, impact ained responders ron, Val Therese a ould be delayed u st Valley all three sta nteer firefighters a e volume down. it increase in the n	g the station for a, Hanmer and eon Station). se times allowing including potential ation 3 (New Therese) and 32 km minutes to Val refighter overtime educe overtime as does not change as idential fires and nree years in Valley cting response times would be a nd Hanmer median ntil adequate fire tions would be nd could require	 Impact \$448,967 - Volunteer Costs without Medical Tiered Response (based on 2019 Fire data) Call volume based on district wide paging to get adequate volunteer staffing. Increased call volume by 370% excluding 62 medical tiered calls. \$531,426 - Volunteer Costs with Medical Tiered Response (based on 2019 Fire data) Call volume based on district wide paging to get adequate volunteer staffing. Increased call volume by 453% including 64 medical tiered calls. Average staffing cost of a station call-out (\$542.33). The introduction of medical tiered response would be \$82,459 in year one which includes volunteer response costs of \$34,709 and initial training costs (32 staff) of \$47,750. Subsequent years would cost approximately \$47,125 which includes volunteer response, on- going training, and new staff training costs.
	require, or % (no MTI		increase in void	inteer responses t	by 453% (with MTR)	\$55,000 - Additional Support Unit for Redeployed Staff
Station	Calls (2019)	Attendance Rate (2019)	Projected Increase in Calls (based on 2019)	Total Percentage Increase (with MTR)	Total Percentage Increase (without MTR)	As per the CBA article 8:02 Staffing "The parties agree that the Employer shall maintain a minimum of twenty-two full-time
15	43	38%	426	890%	742%	firefightersshall be
16	119	33%	426	258%	204%	assigned to in-
17	69	39%	426	517%	370%	service emergency vehicles or be in training at all times."

Appendix D – Fire Protection Service Level Adjustment Report

Surplus staff must be assigned to an emergency response vehicle (CBA)

• CBA requirement for a minimum staffing of 22 firefighters per platoon does not change. The location of the firefighters has no impact on minimum fire staffing. 8:02 Staffing: The parties agree that the Employer shall maintain a minimum of twenty-two (22) full-time firefighters on each of the four platoons at all times. On duty suppression personnel shall only be assigned to in-service emergency vehicles or be in training (within the confines of the geographical response area and available to respond) at all times.

Volunteer firefighter burnout (increasing attrition rate) due to the higher call volumes which may not be sustainable

• High call volume has the potential to burn out volunteers, resulting in diminishing response, training, and higher attrition rates (average length of service for a volunteer is five years).

Insufficient number of available volunteer firefighter applicants (recruitment)

 In volunteer/combination departments, the retention of members is a critical concern. Across the country, fire chiefs are sounding alarms to their communities about their recruitment and retention problems. Another challenge for volunteer fire departments is that firefighters do not have the time to keep up with rigid training requirements while balancing the commitments of a full-time job and family life. In North Carolina, for example, the number of volunteer firefighters has declined by 22% in the past two years, according to FEMA – and many other states face similar shortages.

https://insights.samsung.com/2019/06/17/four-critical-issues-facing-fire-services-today/

Reduced emergency response to all occupancy types

• Multiple vulnerable occupancies in the coverage area will experience a delay in response to both fire and medical tiered incidents (a vulnerable occupancy is a building or organization that is either a care and treatment occupancy, a care occupancy, or a retirement home).

Loss of technical rescue stations

- The existing space within stations is unable to support the additional delivery of technical rescue.
- Decreased capability and increased response time of technical rescue.

Insufficient number of available volunteer firefighters for incident response

• The number of volunteer firefighter responders is unknown as they maintain a discretionary response.

Service level reduction in Valley East and Capreol

• Service level reduction for the 27,713 residents in Fire District 4 (Val Caron, Val Therese, Hanmer, and Capreol).

Loss of Medical Tiered Response

- Council would need to determine if medical tiered response would be maintained.
- There may be a number of volunteers who do not wish to train on or respond to medical calls, as we have recently experienced in Fire District 3.
- If we were able to find a suitable number of volunteers it would take several months to re-establish MTR due to training requirements.

 Costs related to renovations of stations in order to accommodate additional displaced equipment.

Appendix D – Fire Protection Service Level Adjustment Report

Increased response times (medical tiered response, fires and accidents go longer without mitigation)	
 Increasing the response time an additional five minutes or more, which is the average time it takes volunteers to report to the station or to arrive on scene for first responding units in the Valley (number of first responders remains unknown). Increasing guaranteed response time to Val Caron, Val Therese, and Hanmer from career firefighters (New Sudbury Station). Delayed response due to the variability of volunteer response, including potential for no response within the incident fire beat. Loss of effective Medical Tiered Response, although volunteers (32 X 44 hours training = \$35,200 not including instructor time) can be trained, they will have a slower response time or may not respond. In the case of sudden cardiac arrest, for every minute that passes without CPR and defibrillation the chances of survival decrease by 7-10%. 	
FUS reduces fire protection rating resulting in potential insurance rate increase for property owners	
 Potential for a Fire Underwriters Survey re-evaluation of fire coverage area to lower protection rating due to loss of career firefighters. An updated audit of Greater Sudbury is due to occur in 2021 which may impact residential and/or commercial rates. 	

Option 3: Realign Existing Full-time Stations

Public Risk & Operational Challenges	Incremental Financial Impact
 Longer response times without intervention can result in increased risk for the public Closure of a full-time station where 75% of the City's calls occur, would result in a delayed response from the remaining stations depending on what area of the City the call occurred. Closure of a full-time station would result in having to use the career truck in the Valley as a primary response during major incidents in the city core. 	Relocation Costs • It is anticipated that the remaining three halls would need to be relocated and the cost and time to do so would be substantive.
 Due to the minimum required staffing of 22, it does not reduce the number of firefighters The location of the firefighters has no impact on minimum fire staffing of 22. 	
 Impact on fire ground staffing (minimum 16 firefighters for residential fires and 44 firefighters for high-risk fires) With the closure of a career station, the remaining three stations would be required to respond to all fire calls to get the required 16 responders, leaving the City without fire protection. In the event of a fire, the career truck from the Valley would be required to come into the city core to provide emergency coverage leaving the Valley without a career response. 	
 Surplus staff must be assigned to an emergency response vehicle (CBA) Collective Bargaining Agreement requirement for a minimum staffing of 22 firefighters per platoon does not change. The location of the firefighters has no impact on minimum fire staffing. Article 8:02 - Staffing: The parties agree that the Employer shall maintain a minimum of twenty-two (22) full-time firefighters on each of the four platoons at all times. On duty suppression personnel shall only be assigned to in-service emergency vehicles or be in training (within the confines of the geographical response area and available to respond) at all times. 	
 Reduced emergency response to all occupancy types Multiple vulnerable occupancies in the coverage area will experience a delay in response to both fire and medical tiered incidents (a vulnerable occupancy is a building or organization that is either a care and treatment occupancy, a care occupancy, or a retirement home). 	
 Loss of technical rescue stations The existing space within stations is unable to support the additional delivery of technical rescue. Decreased capability and increased response time of technical rescue. 	
 Service level reduction in the city core Service level reduction that will result in increased response times in an area of the City where a career station will be closed. Would require a potential relocation of Paramedic Services. The lack of available space within existing stations will create additional challenges to deliver technical rescue. 	
 Increased response times (medical tiered response, fires and accidents go longer without mitigation) Closure of a full-time station within a district that services 75% of all calls would result in a delay into the area where the station closure occurred 	

FUS reduces fire protection rating resulting in potential insurance rate increase
for property owner
Potential for a Fire Underwriters Survey re-evaluation of fire coverage area to lower
protection rating due to loss of career firefighters. An updated audit of Greater
Sudbury is due to occur in 2021 which may impact residential and/or commercial
rates