City of Edinburgh and Western East Lothian Configuration

Option 104 - Close Marionville 1 Pump WT (RAAC) station.

&

Increase Newcraighall 1 Pump WT station to a 2 Pump WT station.

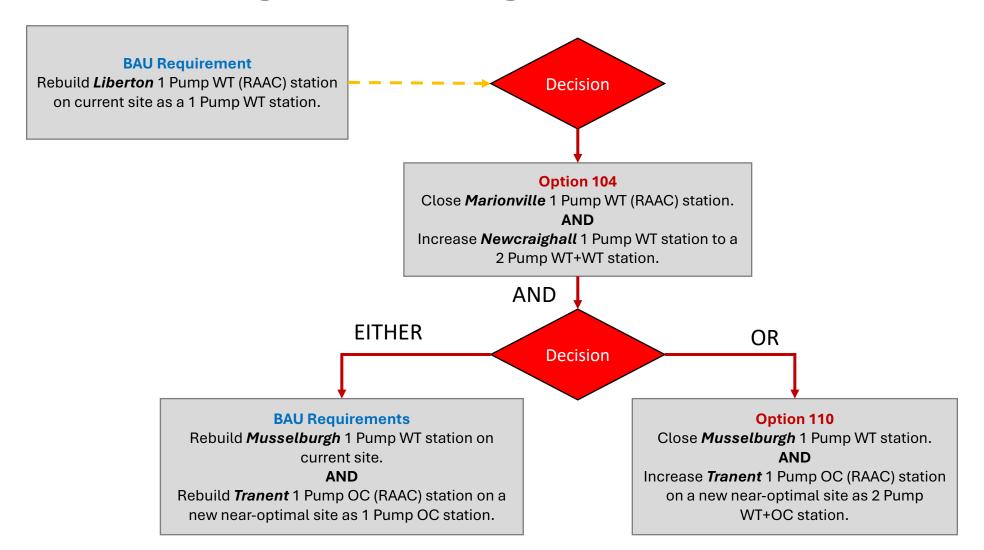
AND

Option 110 - Closure of Musselburgh Station and Tranent station and relocation of pumps and crew to a new 2 pump WT/OC station.



1. Configuration Decision Tree

Marionville, Newcraighall, Musselburgh and Tranent



2.1 Station Overview - Marionville

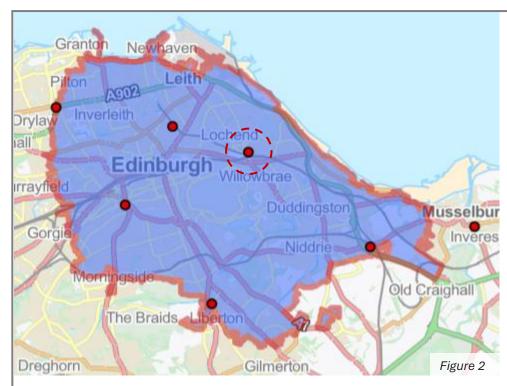


Figure 2 above shows the historical coverage of Marionville's pump as 1st or 2nd pump in attendance to 95% of historical attendances.

Station Resources

K03 P1 Rescue Pump

K03 S1 Operational Support Vehicle

K03 B1 SRT Boat

MORRD Assessment

Risk and response time optimisation modelling has identified the optimal Marionville Station replacement as being a 1 Pump Wholetime station midway between McDonald Road Fire Station and Newcraighall Fire Station, in the Duddingston area.

Property Assessment

- Condition = "bad" due to its RAAC roof and Suitability = "satisfactory".
- Recommendation = "replacement".
- Relocation to a near-optimal site is not considered physically feasible or financially viable due to existing property developments and high land values.

Station Occupancy

The station is crewed as Wholetime 5 Watch Duty System with a TOM watch strength of 6 (4FF, 1CC, 1WC) and overall station TOM of 30 (20FF, 5CC, 5WC)

In addition to the operational staff, the station is currently used by the FBU as a regional office location. They currently have a formal tenancy agreement to occupy 1 of 3 terraced houses on the station complex. 1 of the other 2 houses is privately owned and occupied by a retired Service employee.

Training Demand(minimum annual requirement)

- 100% water rescue personnel trained to maintain minimum of crew of 5
- 30hrs SRT training per year
- 35hrs SFRBO training per year
- Instructor (x2) led training event twice per year (20hrs)

PP&P Demand

- 38 Operational Intelligence Inspection/Audits
- 14 Care Home Operational Assurance Visitations
- 15 Multi-storey Flat Inspection/Audits
- Approximately 900 1000 Hydrants
- 227 HFSVs conducted 1st April '23 31st March '24 (65 High Risk)
- 26 "Other" CFS events 1st April '23 31st March '24

2.2 Station Overview - Newcraighall



Figure 3 above shows the historical coverage of Newcraighall's pump as 1st or 2nd pump in attendance to 95% of historical attendances.

Station Resources

K04 P1 Rescue Pump

K04 S1 Operational Support Vehicle (USAR)

MORRD Assessment

Risk and response time optimisation modelling has identified that the Newcraighall Station is in a prime location on the road network and provides excellent response time coverage across southeastern Edinburgh, eastern East Lothian and northeastern Midlothian.

Property Assessment

- Condition = "satisfactory" and Suitability = "satisfactory"
- •Property currently being reconfigured as a 2 Pump WT station to enable temporary decanting of 1 WT Pump from a local RAAC station and address RAAC stations within the Capital Programme.
- •Property is currently subject to focussed project to reconfigure for dignified facilities and contaminant control but refurbishment of remaining accommodation and infrastructure outstanding for future phasing
- •The expected timescale for completion for phase 1 is Dec 2024 future phase would take c12months

Station Occupancy

The station is crewed as Wholetime 5 Watch Duty System with a TOM watch strength of 6 (4FF, 1CC, 1WC) and overall station TOM of 30 (20FF, 5CC, 5WC)

Training Demand(minimum annual requirement)

- 100% watch personnel USAR trained
- 66hrs per 3 years (22hrs/annum)
- Full day training takes place every Thursday for on-duty watch

PP&P Demand

- 40 Operational Intelligence Inspection/Audits
- 10 Care Home Operational Assurance Visitations
- 6 Multi-storey Flat Inspection/Audits
- Unknown number of Hydrants
- 155 HFSVs conducted 1st April '23 31st March '24 (28 High Risk)
- 135 "Other" CFS events 1st April '23 31st March '24

2.3 Station Overview - Musselburgh



Figure 4 above shows the historical coverage of Musselburgh's pump as 1^{st} or 2^{nd} pump in attendance to 95% of historical attendances.

Station Resources

K03 P1 Rescue Pump

K03 S1 Operational Support Vehicle

K03 B1 Flood Response

Wildfire Response

MORRD Assessment

- •Risk and response time modelling analysis has identified an alternative station, pump and duty system configuration which could provide a more effective resource configuration for responding to the pattern of risk and demand observed in western East Lothian.
- •Introduction of a 2nd WT Pump at *Newcraighall Station*.
- •Closure of Musselburgh Station.
- •Relocation of the *Musselburgh* WT Pump to a new near-optimally located 2 pump WT+OC Fire Station near *Tranent*.

Property Assessment

- •Condition = "satisfactory" and Suitability = "poor".
- •Recommendation = "replacement".
- •Timescale for implementation c2 Years

Station Occupancy

The station is crewed as Wholetime 5 Watch Duty System with a TOM watch strength of 6 (4FF, 1CC, 1WC) and overall station TOM of 25 (15FF, 5CC, 5WC)

In addition to the operational staff, the station is currently used by 1 P,P&P function staff member who occupies 1 of 2 workstations in the Station Commanders office.

Training Demand

- 100% watch personnel Flood Response trained
- 18 hours per watch annually.
- No training standard for Wildfire currently in place.

PP&P Demand

- 19 Operational Intelligence Inspection/Audits
- 8 Care Home Operational Assurance Visitations
- 0 Multi-storey Flat Inspection/Audits
- 789 Hydrants
- 192 HFSVs conducted 1st April '23 31st March '24 (65 High Risk)
- 145 "Other" CFS events 1st April '23 31st March '24

2.4 Station Overview - Tranent



Figure 5 above shows the historical coverage of Tranent's pump as 1st or 2nd pump in attendance to 95% of historical attendances.

Station Resources

J20 P6 Rescue Pump (RDS OC)

MORRD Assessment

- •Risk and response time modelling analysis has identified an alternative station, pump and duty system configuration which could provide a more effective resource configuration for responding to the pattern of risk and demand observed in western East Lothian.
- •Introduction of a 2nd WT Pump at **Newcraighall Station**.
- •Closure of Musselburgh Station.
- •Relocation of the *Musselburgh* WT Pump to a new near-optimally located 2 pump WT+OC Fire Station near *Tranent*

Property Assessment

- •Condition = "bad" due to its RAAC roof and Suitability = "poor"
- •Recommendation = replace station on a new site, providing modern dignified facilities and contaminant control.
- •Rebuilding on a new site is often more efficient, cost effective and avoids disruption to continuing operational activities.

Station Occupancy

The station is crewed as RDS On-Call Duty System with a TOM station strength of 10 (7FF, 2CC, 1WC)

PP&P Demand

- 10 Operational Intelligence Inspection/Audits
- 3 Care Home Operational Assurance Visitations
- 0 Multi-storey Flat Inspection/Audits
- 837 Hydrants
- 163 HFSVs conducted 1st April '23 31st March '24 (43 High Risk)
- 36 "Other" CFS events 1st April '23 31st March '24

Hurdle Criteria No. 1 Desirability

Does the option contribute to improved outcomes for communities as outlined in the Programme vision i.e. does it achieve at least one of the following?:

- Enhances community safety (through PP&P)
- · Supports partnership working
- Equalities

Area of Impact	Specific Impacts
Service Delivery	Tollcross Newcraighall Liberton Peniculk 1st pump response time impacts Figure 6 Figures 6 above and 7 on the right show the impact the changes will have on mean 1st Pump response times across the affected area.
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Median First		Cl	RIM Lev	el		Figure 7
1st Pump Response Time Change	Very High	High	Medium	Low	Very Low	Total
>= 4 Minutes	2	4	5	3	2	16
3 to 4	1	4	4	5	7	21
2 to 3	0	5	5	7	0	17
0 to 2	3	1	6	9	1	20
Increase Datazones	6	14	20	24	10	74
No Change	91	135	210	232	188	856
-2 to 0	3	0	6	4	2	15
-3 to -2	0	1	2	0	1	4
-4 to -3	1	2	2	7	6	18
< -4 Minutes	0	2	4	8	6	20
Decrease Datazones	4	5	14	19	15	57
Net Change	2	9	6	5	-5	17

The SFRS **CRIM** (Community Risk Index Model) predicts the risk of incidents and casualties occurring. It utilises **datazone** areas which have 500-1,000 residents, align with local authority areas, respect physical boundaries and represent communities with similar socioeconomics. **Operational modelling** has identified the datazones likely to be impacted and quantifies the extent of the response time changes.

Hurdle Criteria No. 1 Desirability

Does the option contribute to improved outcomes for communities as outlined in the Programme vision i.e. does it achieve at least one of the following?:

- Enhances community safety (through PP&P)
- · Supports partnership working
- Equalities

Area of Impact	Specific Impacts
Service Delivery	2nd pump response time impacts Figure 8 Figure 8 Figure 8 above and 9 on the right show the impact the changes will have
	on mean 2 nd Pump response times across the affected area.

Median Second		CRIM Level										
1st Pump Response Time Change	Very High	High	Mediu m	Low	Very Low	Total						
>= 4 Minutes	0	0	0	0	0	0						
3 to 4	0	0	0	0	0	0						
2 to 3	1	1	1	0	0	3						
0 to 2	1	1	3	3	3	11						
Increase Datazones	2	2	4	3	3	14						
No Change	91	145	225	255	192	908						
-2 to 0	8	6	12	16	14	56						
-3 to -2	0	0	3	0	4	7						
-4 to -3	0	1	0	1	0	2						
< -4 Minutes	0	0	0	0	0	0						
Decrease Datazones	8	7	15	17	18	65						
Net Change	-6	-5	-11	-14	-15	-51						

The SFRS **CRIM** (Community Risk Index Model) predicts the risk of incidents and casualties occurring. It utilises **datazone** areas which have 500-1,000 residents, align with local authority areas, respect physical boundaries and represent communities with similar socioeconomics. **Operational modelling** has identified the datazones likely to be impacted and quantifies the extent of the response time changes.

Hurdle Criteria No. 1 Desirability

Does the option contribute to **improved outcomes for communities** as outlined in the Programme vision i.e. does it achieve at least one of the following?:

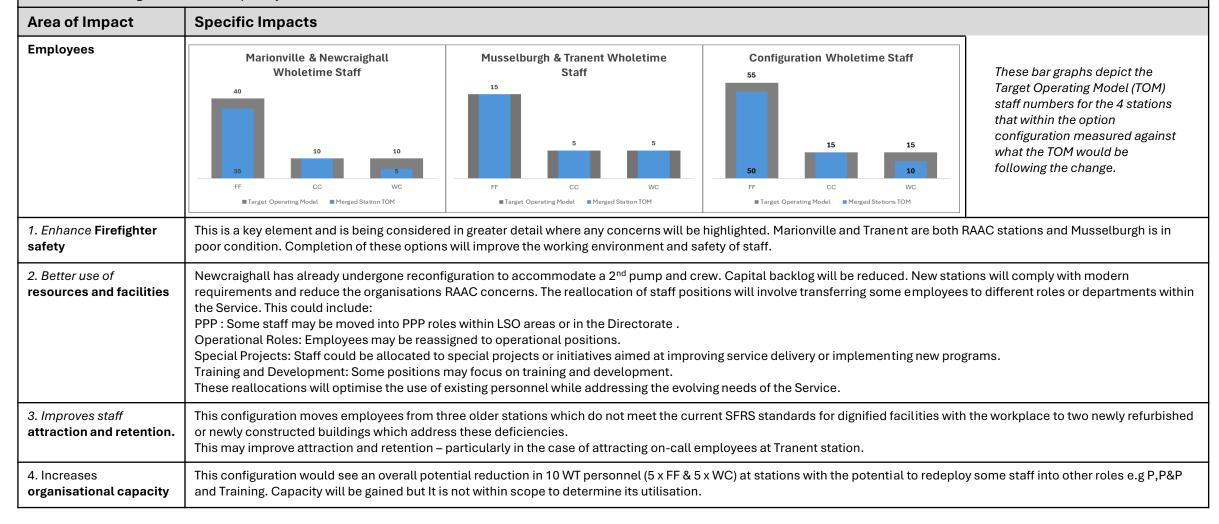
- 1. Enhances community safety (through PP&P)
- 2. Supports partnership working
- 3. Equalities

Area of Impact	Specific Impacts	
Community		vities and how, are yet to be determined and will vary based on each option. i.e., surrounding stations may increase Community Safety llow for further dedicated staff. Revising station boundaries will help redistribute the workload.
Safety PPP & LSO	Enhances community safety (through PP&P).	The PPP Directorate is currently progressing a new Vision and Strategy that will set the future direction for Prevention, Protection and Preparedness. This will include our new recently launched approach to HFSVs which will focus our visits to those who are deemed as high risk and most vulnerable from fire. We also aim increase our reach to those who do not fall into the high-risk category through the provision of our online self-service tool and fire safety advice literature. This new approach and targeted data led PPP activities which address localised risk will continue to be explored as the Service Delivery Review process progresses and a clearer picture emerges around the resources which will be available to support our approach to Prevention. By working closely with LSO Areas, we will aim to ensure that communities across Scotland are safe and resilient and have equitable access to our PPP activities.
	Supports partnership working.	To improve partnership working, we will develop a comprehensive plan for Community Safety (CS) initiatives, Operational Intelligence (OI), Operational Assurance Visits (OAVs), and Operational Risk Visits (ORVs). This plan will involve the SDR PPP lead, LSO management teams, Single Point of Contact (SPOC), and the Directorate team to ensure effective delivery of Prevention, Protection, and Preparedness (PPP) activities.
	3. Equalities	Please refer to the relevant Equalities and Human Rights Impact Assessments for: Marionville Newcraighall Musselburgh Tranent Please refer to Eastern City of Edinburgh and East Lothian Configuration – Early Equality Considerations

No. 2 Desirability

Does the option contribute to improved outcomes for the Service and its staff as outlined in the Programme vision i.e. does it achieve at least one of the following?:

- 1. enhance firefighter safety
- 2. better use of resources and facilities
- 3. improves staff attraction and retention
- 4. increases organisational capacity.



Area of Impact	Specific Impacts										
Finance (Budgetary Capacity	Figure 11 Marionville / N	lewcraighall Merge	Figure 12 Musselburgh / Tra	anent Merger New build	Configuration Total Investment	Configuration Total Capital avoided					
& Best Value)		Capital (Investment) or Income		Capital (Investment) or Income	-£9,500,000	£22,750,000					
Capital	Reconfiguration works	Nil	Land procurement	-£1,400,000							
	Site de-risk	TBC	Station planning & build	-£8,500,000							
	Capital receipt	£280,000	Site(s) de-risk	TBC							
	Property Capital Avoided	£8,500,000	Capital receipts	£120,000							
			Property Capital Avoided	£14,250,000	N.B This configuration will require capital investment circa £9.5m,						
	Total	£280,000	Total	-£9,780,000							
	Time to complete	3 Months				negate £22.75m					
	Earliest potential start date	Mar-27	Time to complete	40 Months	projected investment required wit change.						
			Earliest potential start date	Apr-27							
Finance (Budgetary Capacity	Figure 13 Marionville / N	lewcraighall Merge	Figure 14 Musselburgh / Tra	nent Merger New build	Configuration Total						
& Best Value)	Budgetary Capacity			Resource Saving	Saving £554,067						
Resource	Number of Post released	10 (5xFF, 5xWC)	Number of Post released	I Nil							
	Annual cost of released p	·	Annual cost of released	oosts Nil	* ' *	ed staff savings may					
	Change in annual proper			ty costs -£50,000	7	not be fully realised by SFRS, as positions are likely to be reassigned to					

-inance Budgetary Capacity	Figure 13 Marionville / Newcraig	ghall Merge
& Best Value)		Resource Saving
Resource	Number of Post released	10 (5xFF, 5xWC)
	Annual cost of released posts	£488,000
	Change in annual property costs	£116,06
	Change in annual fleet costs	N
	Total Saving	£604,06

Figure 14 Musselburgh / Tranent Me	erger New build
	Resource Saving
Number of Post released	Nil
Annual cost of released posts	Nil
Change in annual property costs	-£50,000
Change in annual fleet costs	Nil
Total Saving	-£50,000

other functions within the Service. Additionally, property running costs will increase for the merged stations.

No. 4 Feasibility

Area of Impact	Spec	pecific Impacts																						
		20		2026				2027				2028				2029				2030				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Sequencing & Interdependencies	Temporarily relocate Liberton Pump Clear Liberton site/ Station Design and Contract award. Build new station on site Newcracipall																							
	Option 110	Identify a sight for a new Tranent 2 pump station build	Purchase land and submit planning			Or		Option 104	Relocate Uberton Pump and staff into new station Relocate Marionville Pump and required staff to Newcraighall	Re-distribute additional state of the state	Design and contract	act awarded				Mobilisation Perio	od.				Build new station		Relocate both Musselburgh	
Iterdependencies /hat unlocks this otion? oes it unlock thers?	demo build There The r	configuolition aling of ale is no redeplocision center of an aling and aling a	and reb news educti yment on re-l	ouild o tation on in f of rele ocatir	f Liber near T leet or eased u	ton on ranent equipi uniform ne Mar	currer and the ment a nempl ionvill	nt site ane clos ne clos ns a res oyees ne wate	and bui sure an sult of t provid er resc	ld of Da d releas his opt es an o ue ass	alkeith se of 3 ion bu pportu et will	on a n station there nity to be req	ew site ns site will be bolste puired	e. Thises, each e signifier pump to pro	config n with icant ii p avail gress	guratio a poter mpact ability a	n would ntial ca on the and ind nfigur a	d requipital re SFRS or crease	ire the eceipt. capital P,P&P The im	purcha backlo and Ti pact o	ase of og. raining n train	1 new	site and	d