APPENDIX B.

SURREY FIRE AND RESCUE SERVICE

Final Results Report: Modelling around Spelthorne

ORH

Introduction

1. ORH Limited recently completed a model validation study (ORH reference SuF/15) for Surrey Fire & Rescue Service (SFRS) with a Final Report produced on 19th July 2013.

2. This revalidation study updated the ORH simulation and optimisation models with data from 2011/12 and 2012/13. A modelled base position was established to take into account recent changes and expected changes to the deployment of appliances (eg, the redeployment of an appliance from Reigate), as discussed with SFRS.

3. The models are therefore considered up-to-date and ready to use for modelling different options for the deployment of pumping appliances in Surrey.

4. SFRS has specified modelling runs to be undertaken around the deployment of appliances currently located at Sunbury and Staines stations in Spelthorne district. The modelling around these options forms part of wider plans to assess potential deployments changes across Surrey.

5. The general objectives of this work were therefore to assess the performance impacts of potential changes to the modelled base position (using the ORH Fire Simulation Model, FireSim), and to use optimisation modelling to consider the optimum location for a combined site for Sunbury and Staines fire stations (using the ORH Optimisation Model, OGRE).

Methodology

6. The work around the potential options involved assessing the closure of Staines and Sunbury stations. Both stations currently have one pump and are wholetime (WT) crewed. The options modelled here involve locating one wholetime appliance within the following configurations:

   a. Close Sunbury station (1x WT at Staines);

   b. Close Staines station (1x WT at Sunbury);

   c. Close Sunbury and Staines, and locate 1x WT at the optimal site.

FIGURE 1 **SUMMARY OF MODELLING RESULTS**

Surrey-wide

Modelled Results

Deployment Option	Appendix	1st Response to All 2+ Pump Incidents		2nd Response to All 2+ Pump Incidents		1st Response to All Incidents
		Average	% in 10 mins	Average	% in 15 mins	% in 16 minutes
Modelled Base		07:28	80.8%	10:27	86.7%	96.8%
Staines Only	A1	07:38	79.2%	10:37	86%	96.6%
Sunbury Only	A2	07:35	79.9%	10:40	86.0%	96.7%
Optimum Location	B2	07:33	80.1%	10:34	86.1%	96.7%

Impact Versus Modelled Base Position

Deployment Option	Appendix	1st Response to All 2+ Pump Incidents		2nd Response to All 2+ Pump Incidents		1st Response to All Incidents
		Average	% in 10 mins	Average	% in 15 mins	% in 16 minutes
Staines Only	A1	00:10	-1.6%	00:10	-0.8%	-0.2%
Sunbury Only	A2	00:07	-0.9%	00:13	-0.7%	-0.1%
Optimum Location	B2	00:05	-0.6%	00:06	-0.6%	-0.1%

Spelthorne District

Modelled Results

Deployment Option	Appendix	1st Response to All 2+ Pump Incidents		2nd Response to All 2+ Pump Incidents		1st Response to All Incidents
		Average	% in 10 mins	Average	% in 15 mins	% in 16 minutes
Modelled Base		05:44	97.0%	09:13	98.2%	99.8%
Staines Only	A1	07:32	80.5%	10:48	93.0%	98.5%
Sunbury Only	A2	07:05	88.3%	11:03	93.9%	98.8%
Optimum Location	B2	06:42	91.4%	10:24	94.5%	98.9%

Impact Versus Modelled Base Position

Deployment Option	Appendix	1st Response to All 2+ Pump Incidents		2nd Response to All 2+ Pump Incidents		1st Response to All Incidents
		Average	% in 10 mins	Average	% in 15 mins	% in 16 minutes
Staines Only	A1	01:47	-16.5%	01:35	-5.2%	-1.3%
Sunbury Only	A2	01:21	-8.7%	01:51	-4.3%	-1.0%
Optimum Location	B2	00:58	-5.6%	01:11	-3.7%	-0.8%

7. The optimisation work focused on the production of a 'site-search' map for one new optimal location given the closure of Staines and Sunbury stations. The optimisation fixed all other stations and crewing arrangements as per the modelled base position and sought to find the optimum location based on one wholetime appliance at the site. The optimisation model (OGRE) was used to minimise the SFRS-wide average first and second appliance response to all 2+ appliance incidents.

Results

8. The modelling results for closing Sunbury or Staines are given in Appendices **A1** and **A2** respectively, and the results are shown against the modelled base.

9. The impact of closing Sunbury or Staines (on the average first appliance response performance to all 2+ incidents) would be an increase of 1m 47 s or 1m 21s respectively, in the district of Spelthorne; Surrey-wide performance deteriorates slightly. In addition, the closure of Sunbury results in the workload of the Staines appliance increasing by 159 responses per year, which is less than the impact on the Sunbury appliance when Staines is closed (205 responses per year).

10. The site-search map for the optimal location for a new site at which to merge Staines and Sunbury stations is given in Appendix **B1**. The location is on Ashford Road near to the roundabout with the A308 Staines By-Pass and Fordbridge Road.

11. The modelling results for closing Staines and Sunbury and introducing one appliance at the optimal location are given in Appendix **B2**.

12. Closing Staines and Sunbury and deploying one appliance at the optimal location results in a small Surrey-wide deterioration on the average first appliance response performance to all 2+ incidents (5 seconds) compared to the modelled base. For the Spelthorne district, the impact on average first and second appliance response to all 2+ appliance incidents is 58s and 1m 11s respectively.

13. The Surrey-wide and Spelthorne district results are presented in Figure **1** opposite for all options modelled.

Summary

14. The results for a range of deployment options around relocating Staines and Sunbury stations have been assessed in this paper. A comparison has been made to the modelled base position established in the recent model re-validation study. Modelled response performance and workload by appliance have been presented for all options and are included in the appendices.

15. The optimal location is shown to provide performance benefits in comparison to either of the existing station locations, in terms of all the measures reported against.

APPENDICES

A **Modelling Results: One Wholetime Appliance at Existing Stations**

A1 **Close Sunbury; 1x WT at Staines compared to the Modelled Base**

A1a Response Performance by District

A1b Appliance Workload

A2 **Close Staines; 1x WT at Sunbury compared to the Modelled Base**

A2a Response Performance by District

A2b Appliance Workload

B **Optimal Location within Spelthorne District**

B1 **Site-Search Map for Optimal Location within Spelthorne District**

B2 **Optimal Location compared to the Modelled Base**

B2a Response Performance by District

B2b Appliance Workload

Deployment Options

Close Sunbury; 1 x WT at Staines

All Periods Combined

Modelled Base

Time given in mm:ss

District	1st Response to All 2+ Pump Incidents		2nd Response to All 2+ Pump Incidents		1st Response to All Incidents
	Average	% in 10 mins	Average	% in 15 mins	% in 16 mins
Overall	07:28	80.8%	10:27	86.7%	96.8%
Elmbridge	06:45	89.5%	11:01	95.0%	99.5%
Epsom and Ewell	05:58	89.9%	06:44	95.5%	98.7%
Guildford	07:31	80.9%	08:46	91.3%	96.9%
Mole Valley	08:14	76.2%	13:00	78.4%	97.4%
Reigate and Banstead	08:16	72.2%	11:55	84.4%	96.6%
Runnymede	06:33	90.5%	10:54	94.8%	99.2%
Spelthorne	05:44	97.0%	09:13	98.2%	99.8%
Surrey Heath	07:24	87.0%	08:15	95.9%	98.4%
Tandridge	09:47	59.2%	15:23	51.1%	91.0%
Waverley	10:34	44.1%	15:25	48.2%	88.5%
Woking	06:00	93.7%	06:51	99.1%	99.8%

Modelled Option - Close Sunbury; 1 x WT at Staines

District	1st Response to All 2+ Pump Incidents		2nd Response to All 2+ Pump Incidents		1st Response to All Incidents
	Average	% in 10 mins	Average	% in 15 mins	% in 16 mins
Overall	07:38	79.2%	10:37	85.9%	96.6%
Elmbridge	06:49	88.5%	11:15	92.8%	99.3%
Epsom and Ewell	05:59	89.8%	06:45	95.4%	98.7%
Guildford	07:31	80.8%	08:46	91.3%	96.9%
Mole Valley	08:14	76.2%	13:00	78.4%	97.4%
Reigate and Banstead	08:16	72.2%	11:55	84.4%	96.6%
Runnymede	06:40	89.3%	11:00	93.5%	98.7%
Spelthorne	07:32	80.5%	10:48	93.0%	98.5%
Surrey Heath	07:25	87.0%	08:15	95.9%	98.4%
Tandridge	09:47	59.2%	15:23	51.1%	91.0%
Waverley	10:34	44.1%	15:25	48.2%	88.5%
Woking	06:00	93.6%	06:52	99.1%	99.8%

Impact Versus Modelled Base

District	1st Response to All 2+ Pump Incidents		2nd Response to All 2+ Pump Incidents		1st Response to All Incidents
	Average	% in 10 mins	Average	% in 15 mins	% in 16 mins
Overall	00:10	-1.6%	00:10	-0.8%	-0.2%
Elmbridge	00:04	-1.0%	00:15	-2.1%	-0.2%
Epsom and Ewell	00:00	0.0%	00:00	0.0%	0.0%
Guildford	00:00	0.0%	00:00	0.0%	0.0%
Mole Valley	00:00	0.0%	00:00	0.0%	0.0%
Reigate and Banstead	00:00	0.0%	00:00	0.0%	0.0%
Runnymede	00:07	-1.1%	00:07	-1.3%	-0.5%
Spelthorne	01:47	-16.5%	01:35	-5.2%	-1.3%
Surrey Heath	00:00	0.0%	00:00	0.0%	0.0%
Tandridge	00:00	0.0%	00:00	0.0%	0.0%
Waverley	00:00	0.0%	00:00	0.0%	0.0%
Woking	00:00	0.0%	00:01	0.0%	0.0%

Response Target	-	80%	-	80%	95%

Modelled improvement in performance to meet/exceed the standard, where modelled base does not meet the standard

Modelled reduction in performance to below the standard, where modelled base does meet/exceed the standard

Modelled improvement in average response of over 30 seconds or 10% within target

Modelled reduction in average response of over 30 seconds or 10% within target

Deployment Options

Close Sunbury; 1 x WT at Staines

Modelled Annual Workload - All Periods Combined

Callsign	*Station*	Modelled Base Crew Type	Modelled Option Crew Type	Modelled Workload		
				Base Position	Modelled Option	Difference
S30P1	*Camberley*	WT	WT	460	461	1
S30P2	*Camberley*	WT	WT	569	570	1
S33P1	*Chertsey*	WT	WT	818	925	107
S32P1	*Chobham*	RDS	RDS	170	174	3
S28P1	*Cranleigh*	RDS	RDS	107	107	0
S28P2	*Cranleigh*	RDS	RDS	78	78	0
S12P1	*Dorking*	WT	WT	395	395	0
S27P1	*Dunsfold*	RDS	RDS	16	16	0
S31P1	*Egham*	WT	WT	630	744	114
S17P1	*Epsom*	WT	WT	502	502	1
S17P2	*Epsom*	WT	WT	882	884	2
S20P1	*Esher*	WT	WT	523	548	25
S26P1	*Farnham*	WT	WT	562	562	0
S24P1	*Godalming*	RDS	RDS	147	147	0
S24P2	*Godalming*	RDS	RDS	84	84	0
S14P1	*Godstone*	WT	WT	778	778	0
S22P1	*Guildford*	WT	WT	1,211	1,213	2
S22P2	*Guildford*	WT	WT	724	725	1
S22P3	*Guildford*	RDS	RDS	85	85	0
S25P1	*Haslemere*	DC	DC	191	191	0
S25P2	*Haslemere*	RDS	RDS	16	16	0
S13P1	*Leatherhead*	WT	WT	491	492	1
S16P1	*Lingfield*	RDS	RDS	97	97	0
S15P1	*Oxted*	RDS	RDS	181	181	0
S15P2	*Oxted*	RDS	RDS	61	61	0
S21P1	*Painshill*	WT	WT	729	770	41
S11P1	*Reigate*	WT	WT	860	860	0
SAL-P1	*Salfords*	WT	WT	633	633	0
S10P1	*Staines*	WT	WT	535	694	159
S19P1	*Sunbury*	WT	Close	532	0	-532
S18P1	*Walton*	DC	DC	391	456	64
S18P2	*Walton*	RDS	RDS	0	0	0
S29P1	*Woking*	WT	WT	872	879	7
S29P2	*Woking*	WT	WT	329	333	4
Total				14,659	14,659	0

Note:
Workload by appliance is the expected number of incidents attended by appliance for the given deployment modelled

Deployment Options

Close Staines; 1 x WT at Sunbury

All Periods Combined

Modelled Base

Time given in mm:ss

District	1st Response to All 2+ Pump Incidents		2nd Response to All 2+ Pump Incidents		1st Response to All Incidents
	Average	% in 10 mins	Average	% in 15 mins	% in 16 mins
Overall	07:28	80.8%	10:27	86.7%	96.8%
Elmbridge	06:45	89.5%	11:01	95.0%	99.5%
Epsom and Ewell	05:58	89.9%	06:44	95.5%	98.7%
Guildford	07:31	80.9%	08:46	91.3%	96.9%
Mole Valley	08:14	76.2%	13:00	78.4%	97.4%
Reigate and Banstead	08:16	72.2%	11:55	84.4%	96.6%
Runnymede	06:33	90.5%	10:54	94.8%	99.2%
Spelthorne	05:44	97.0%	09:13	98.2%	99.8%
Surrey Heath	07:24	87.0%	08:15	95.9%	98.4%
Tandridge	09:47	59.2%	15:23	51.1%	91.0%
Waverley	10:34	44.1%	15:25	48.2%	88.5%
Woking	06:00	93.7%	06:51	99.1%	99.8%

Modelled Option - Close Staines; 1 x WT at Sunbury

District	1st Response to All 2+ Pump Incidents		2nd Response to All 2+ Pump Incidents		1st Response to All Incidents
	Average	% in 10 mins	Average	% in 15 mins	% in 16 mins
Overall	07:35	79.9%	10:40	86.0%	96.7%
Elmbridge	06:46	89.3%	11:02	94.8%	99.5%
Epsom and Ewell	05:58	89.9%	06:44	95.4%	98.7%
Guildford	07:31	80.8%	08:46	91.3%	96.9%
Mole Valley	08:14	76.2%	13:00	78.4%	97.4%
Reigate and Banstead	08:16	72.2%	11:55	84.4%	96.6%
Runnymede	06:40	89.0%	11:37	91.5%	98.7%
Spelthorne	07:05	88.3%	11:03	93.9%	98.8%
Surrey Heath	07:25	87.0%	08:15	95.9%	98.4%
Tandridge	09:47	59.2%	15:23	51.1%	91.0%
Waverley	10:34	44.1%	15:25	48.2%	88.5%
Woking	06:00	93.6%	06:52	99.1%	99.8%

Impact Versus Modelled Base

District	1st Response to All 2+ Pump Incidents		2nd Response to All 2+ Pump Incidents		1st Response to All Incidents
	Average	% in 10 mins	Average	% in 15 mins	% in 16 mins
Overall	00:07	-0.9%	00:13	-0.7%	-0.1%
Elmbridge	00:01	-0.2%	00:01	-0.2%	0.0%
Epsom and Ewell	00:00	0.0%	00:00	0.0%	0.0%
Guildford	00:00	0.0%	00:00	0.0%	0.0%
Mole Valley	00:00	0.0%	00:00	0.0%	0.0%
Reigate and Banstead	00:00	0.0%	00:00	0.0%	0.0%
Runnymede	00:07	-1.4%	00:43	-3.3%	-0.5%
Spelthorne	01:21	-8.7%	01:51	-4.3%	-1.0%
Surrey Heath	00:00	0.0%	00:00	0.0%	0.0%
Tandridge	00:00	0.0%	00:00	0.0%	0.0%
Waverley	00:00	0.0%	00:00	0.0%	0.0%
Woking	00:00	0.0%	00:01	0.0%	0.0%

Response Target	-	80%	-	80%	95%

Modelled improvement in performance to meet/exceed the standard, where modelled base does not meet the standard

Modelled reduction in performance to below the standard, where modelled base does meet/exceed the standard

Modelled improvement in average response of over 30 seconds or 10% within target

Modelled reduction in average response of over 30 seconds or 10% within target

Deployment Options

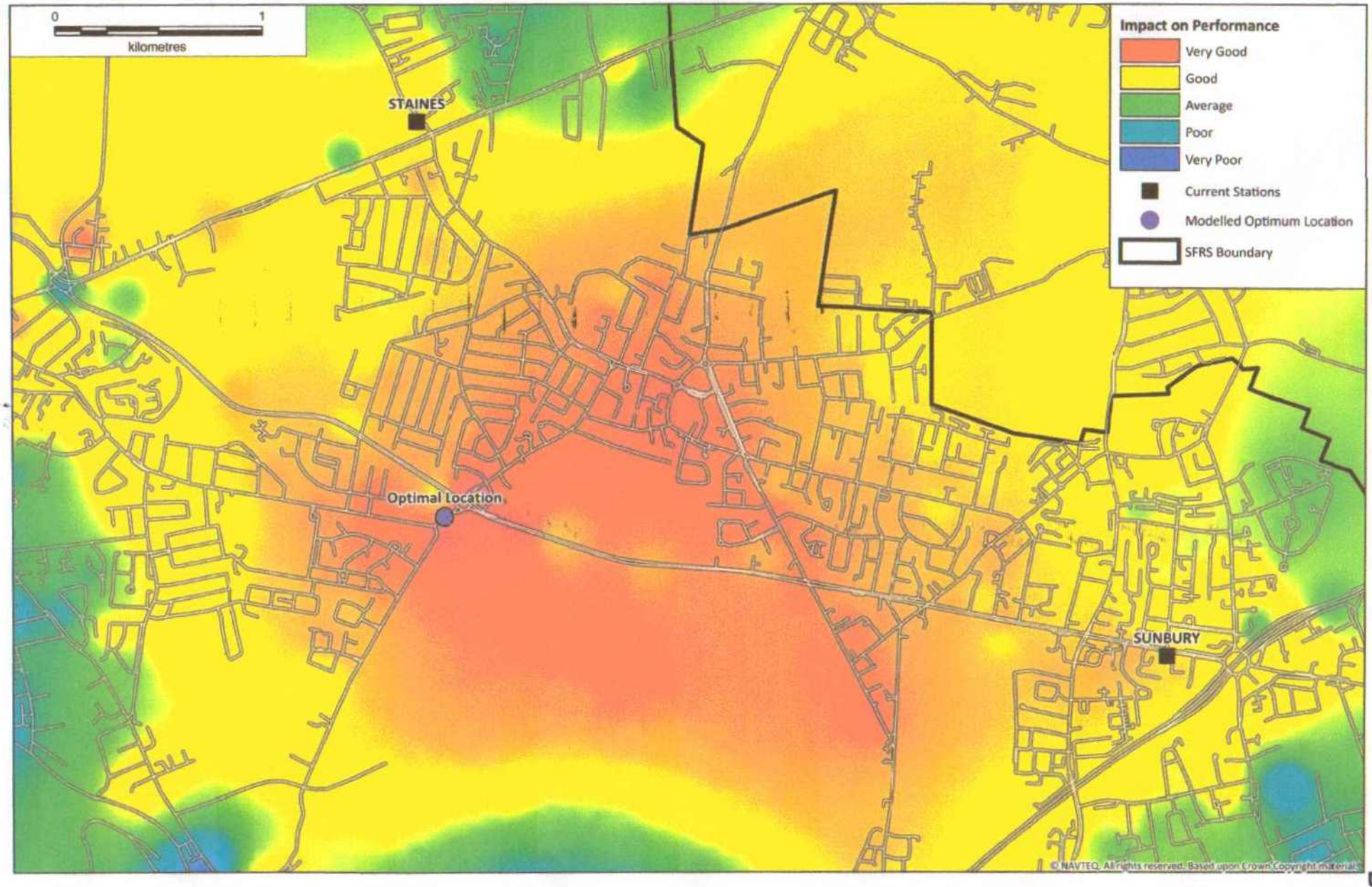
Close Staines; 1 x WT at Sunbury

Modelled Annual Workload - All Periods Combined

Callsign	*Station*	Modelled Base Crew Type	Modelled Option Crew Type	Modelled Workload		
				Base Position	Modelled Option	Difference
S30P1	*Camberley*	WT	WT	460	461	1
S30P2	*Camberley*	WT	WT	569	570	2
S33P1	*Chertsey*	WT	WT	818	893	75
S32P1	*Chobham*	RDS	RDS	170	175	5
S28P1	*Cranleigh*	RDS	RDS	107	107	0
S28P2	*Cranleigh*	RDS	RDS	78	78	0
S12P1	*Dorking*	WT	WT	395	395	0
S27P1	*Dunsfold*	RDS	RDS	16	16	0
S31P1	*Egham*	WT	WT	630	827	197
S17P1	*Epsom*	WT	WT	502	502	0
S17P2	*Epsom*	WT	WT	882	882	0
S20P1	*Esher*	WT	WT	523	531	8
S26P1	*Farnham*	WT	WT	562	562	0
S24P1	*Godalming*	RDS	RDS	147	147	0
S24P2	*Godalming*	RDS	RDS	84	84	0
S14P1	*Godstone*	WT	WT	778	778	0
S22P1	*Guildford*	WT	WT	1,211	1,212	1
S22P2	*Guildford*	WT	WT	724	725	0
S22P3	*Guildford*	RDS	RDS	85	85	0
S25P1	*Haslemere*	DC	DC	191	191	0
S25P2	*Haslemere*	RDS	RDS	16	16	0
S13P1	*Leatherhead*	WT	WT	491	491	0
S16P1	*Lingfield*	RDS	RDS	97	97	0
S15P1	*Oxted*	RDS	RDS	181	181	0
S15P2	*Oxted*	RDS	RDS	61	61	0
S21P1	*Painshill*	WT	WT	729	741	12
S11P1	*Reigate*	WT	WT	860	860	0
SAL-P1	*Salfords*	WT	WT	633	633	0
S10P1	*Staines*	WT	Close	535	0	-535
S19P1	*Sunbury*	WT	WT	532	737	205
S18P1	*Walton*	DC	DC	391	408	16
S18P2	*Walton*	RDS	RDS	0	0	0
S29P1	*Woking*	WT	WT	872	880	8
S29P2	*Woking*	WT	WT	329	333	3
Total				14,659	14,659	0

Note:
Workload by appliance is the expected number of incidents attended by appliance for the given deployment modelled

Spelthorne Optimal Location Site Search



B1

Deployment Options

Close Sunbury and Staines and Relocate to Optimum Location

All Periods Combined

Modelled Base

Time given in mm:ss

District	1st Response to All 2+ Pump Incidents		2nd Response to All 2+ Pump Incidents		1st Response to All Incidents
	Average	% in 10 mins	Average	% in 15 mins	% in 16 mins
Overall	07:28	80.8%	10:27	86.7%	96.8%
Elmbridge	06:45	89.5%	11:01	95.0%	99.5%
Epsom and Ewell	05:58	89.9%	06:44	95.5%	98.7%
Guildford	07:31	80.9%	08:46	91.3%	96.9%
Mole Valley	08:14	76.2%	13:00	78.4%	97.4%
Reigate and Banstead	08:16	72.2%	11:55	84.4%	96.6%
Runnymede	06:33	90.5%	10:54	94.8%	99.2%
Spelthorne	05:44	97.0%	09:13	98.2%	99.8%
Surrey Heath	07:24	87.0%	08:15	95.9%	98.4%
Tandridge	09:47	59.2%	15:23	51.1%	91.0%
Waverley	10:34	44.1%	15:25	48.2%	88.5%
Woking	06:00	93.7%	06:51	99.1%	99.8%

Modelled Option - Close Sunbury and Staines and Relocate to Optimum Location

District	1st Response to All 2+ Pump Incidents		2nd Response to All 2+ Pump Incidents		1st Response to All Incidents
	Average	% in 10 mins	Average	% in 15 mins	% in 16 mins
Overall	07:33	80.1%	10:34	86.1%	96.7%
Elmbridge	06:48	88.6%	11:14	93.0%	99.3%
Epsom and Ewell	05:59	89.9%	06:45	95.4%	98.7%
Guildford	07:31	80.8%	08:46	91.3%	96.9%
Mole Valley	08:14	76.2%	13:00	78.4%	97.4%
Reigate and Banstead	08:16	72.2%	11:55	84.4%	96.6%
Runnymede	06:37	89.7%	10:46	94.0%	98.9%
Spelthorne	06:42	91.4%	10:24	94.5%	98.9%
Surrey Heath	07:25	87.0%	08:15	95.9%	98.4%
Tandridge	09:47	59.2%	15:23	51.1%	91.0%
Waverley	10:34	44.1%	15:25	48.2%	88.5%
Woking	06:00	93.6%	06:52	99.1%	99.8%

Impact Versus Modelled Base

District	1st Response to All 2+ Pump Incidents		2nd Response to All 2+ Pump Incidents		1st Response to All Incidents
	Average	% in 10 mins	Average	% in 15 mins	% in 16 mins
Overall	00:05	-0.6%	00:06	-0.6%	-0.1%
Elmbridge	00:03	-1.0%	00:14	-1.9%	-0.2%
Epsom and Ewell	00:00	0.0%	00:00	0.0%	0.0%
Guildford	00:00	0.0%	00:00	0.0%	0.0%
Mole Valley	00:00	0.0%	00:00	0.0%	0.0%
Reigate and Banstead	00:00	0.0%	00:00	0.0%	0.0%
Runnymede	00:04	-0.7%	-00:08	-0.8%	-0.3%
Spelthorne	00:58	-5.6%	01:11	-3.7%	-0.8%
Surrey Heath	00:00	0.0%	00:00	0.0%	0.0%
Tandridge	00:00	0.0%	00:00	0.0%	0.0%
Waverley	00:00	0.0%	00:00	0.0%	0.0%
Woking	00:00	0.0%	00:00	0.0%	0.0%

Response Target	-	80%	-	80%	95%

Modelled improvement in performance to meet/exceed the standard, where modelled base does not meet the standard

Modelled reduction in performance to below the standard, where modelled base does meet/exceed the standard

Modelled improvement in average response of over 30 seconds or 10% within target

Modelled reduction in average response of over 30 seconds or 10% within target

Deployment Options

Close Sunbury and Staines and Relocate to Optimum Location

Modelled Annual Workload - All Periods Combined

Callsign	*Station*	Modelled Base Crew Type	Modelled Option Crew Type	Modelled Workload		
				Base Position	Modelled Option	Difference
S30P1	*Camberley*	WT	WT	460	460	0
S30P2	*Camberley*	WT	WT	569	569	0
S33P1	*Chertsey*	WT	WT	818	898	81
S32P1	*Chobham*	RDS	RDS	170	172	2
S28P1	*Cranleigh*	RDS	RDS	107	107	0
S28P2	*Cranleigh*	RDS	RDS	78	78	0
S12P1	*Dorking*	WT	WT	395	395	0
S27P1	*Dunsfold*	RDS	RDS	16	16	0
S31P1	*Egham*	WT	WT	630	726	95
S17P1	*Epsom*	WT	WT	502	502	0
S17P2	*Epsom*	WT	WT	882	883	1
S20P1	*Esher*	WT	WT	523	546	23
S26P1	*Farnham*	WT	WT	562	562	0
S24P1	*Godalming*	RDS	RDS	147	147	0
S24P2	*Godalming*	RDS	RDS	84	84	0
S14P1	*Godstone*	WT	WT	778	778	0
S22P1	*Guildford*	WT	WT	1,211	1,213	1
S22P2	*Guildford*	WT	WT	724	725	1
S22P3	*Guildford*	RDS	RDS	85	85	0
S25P1	*Haslemere*	DC	DC	191	191	0
S25P2	*Haslemere*	RDS	RDS	16	16	0
S13P1	*Leatherhead*	WT	WT	491	492	1
S16P1	*Lingfield*	RDS	RDS	97	97	0
S15P1	*Oxted*	RDS	RDS	181	181	0
S15P2	*Oxted*	RDS	RDS	61	61	0
S21P1	*Painshill*	WT	WT	729	763	34
S11P1	*Reigate*	WT	WT	860	860	0
SAL-P1	*Salfords*	WT	WT	633	633	0
S10P1	*Staines*	WT	Close	535	0	-535
S19P1	*Sunbury*	WT	Close	532	0	-532
S18P1	*Walton*	DC	DC	391	432	41
S18P2	*Walton*	RDS	RDS	0	0	0
S29P1	*Woking*	WT	WT	872	878	6
S29P2	*Woking*	WT	WT	329	332	3
Spelthorne1	*Spelthorne*	-	WT	0	776	776
Total				14,659	14,659	0

Note:
Workload by appliance is the expected number of incidents attended by appliance for the given deployment modelled

Surrey Fire and Rescue Authority
Public Safety Plan 2011-2020

Consultation On Changes To Fire Engine Deployment In The Borough Of Spelthorne

What does this mean for Spelthorne?

The Issue: Surrey Fire and Rescue Service's Public Safety Plan[1] proposed a change to the way the fire stations in Spelthorne are crewed. Currently there are two fire stations in Spelthorne, at Sunbury and Staines. Each of these stations has one Wholetime fire engine, providing 24 hour emergency response cover. The Plan indicated the longer term intention to rationalise the fire stations in the borough of Spelthorne. To continue to provide an effective service within the resources available, the Service now needs to consider the provision of one fire engine in Spelthorne located more centrally within the Borough.

We value your opinions and would appreciate your views on this proposal. We will provide you with as much information as we can and will listen to your opinions before a decision is made as to whether to implement this proposal.

The Proposal: If implemented, there would be a change to the number of fire engines based in Spelthorne. Currently there are two fire engines crewed by staff to provide an immediate response 24 hours a day. Our proposal is to close the two existing stations and base one fire engine at a new, modern fire station located in the Ashford Common area, providing 24 hour emergency response cover. This will mean that some firefighters currently based at Staines or Sunbury will need to work from other locations within Surrey.

Why are we proposing this change? The Surrey Fire and Rescue Authority has statutory duties to provide a fire and rescue service for the county with the resources available. This proposal is part of a transformation programme for the Service, designed to meet the challenges we described in our Public Safety Plan. The savings generated by the station rationalisation will enable us to continue to provide a balanced equitable service across the county without the need for a reduction in the response standard.

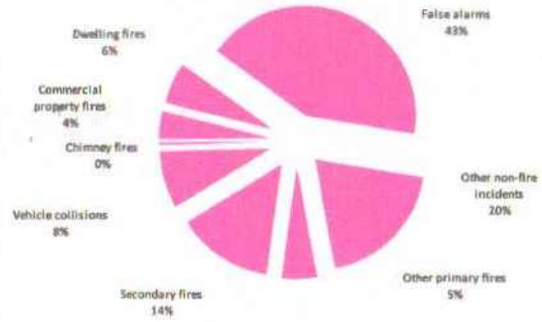
Emergency Response: We have modelled[2] the effects of our proposals and identified their potential impact. In Spelthorne, on average, the first fire engine will attend incidents in less than seven minutes (quicker than the Surrey average) and well within the Surrey response standard of ten minutes. This is sufficient to deal with the emergency safely and effectively in the majority of cases.

For life and property risk incidents, additional resources will be on their way to provide the required support for the first crew attending. On average this second fire engine will arrive in less than eleven minutes, which is also well within our fire service emergency response standard of 15 minutes.

Predicted response standard for Spelthorne

	1st fire engine attendance (average)	% attended in 10 mins	2nd fire engine attendance (average)	% attended in 15 mins
Current	5 min 44 secs	97.0	9 min 13 secs	98.2
Proposal	6 min 42 secs	91.4	10 min 24 secs	94.5
Surrey Average	7 min 28 secs	80.8	10 min 27 secs	86.7

An average week in Spelthorne:



Whilst the demand for emergency response is unpredictable, we are able to identify trends and to recognise the periods that are busier for us. This assists with planning resources and analysing the potential impact of proposals such as this one. Between 2009 and 2013 there was an average of 16 incidents per week in Spelthorne. If there had been such a thing as an average week about 7 of these incidents would have been false alarms. There would have been about one fire in a dwelling, about one in other property and about three non-property (secondary) fires, such as rubbish or grass alight. We would have needed to deal with about one vehicle collision and 3 other incidents (special services), which could be flooding or animals trapped, etc. The fire engines would also have been used as required to standby at other locations to maintain emergency response cover across the county.

[1] Available at www.surrey-fire.gov.uk/psp

[2] For further information on emergency response modelling, visit www.surrey-fire.gov.uk/psp

Surrey Fire and Rescue Authority
Public Safety Plan 2011-2020

Consultation On Changes To Fire Engine Deployment In The Borough Of Spelthorne

What does this mean for Spelthorne?

How we respond to emergencies: We provide emergency response cover across the county with up to 35 fire engines, which are supported by a range of other specialist resources of our own and neighbouring services. Two of these fire engines are currently based in Spelthorne but they are not resources solely dedicated to the Borough. This means that these fire engines will respond to incidents outside of the Spelthorne area. Similarly we can use resources from across the county to deal effectively with emergencies in the Borough, as we did in January 2013 when more than four fire engines attended the fire at the Ashford Cafe.

As stated in our fire service response standard, we will send the quickest appropriate response to an emergency and for you that may not be a fire engine from the fire station in Spelthorne. This current practice will not change under the proposals put forward for consultation.

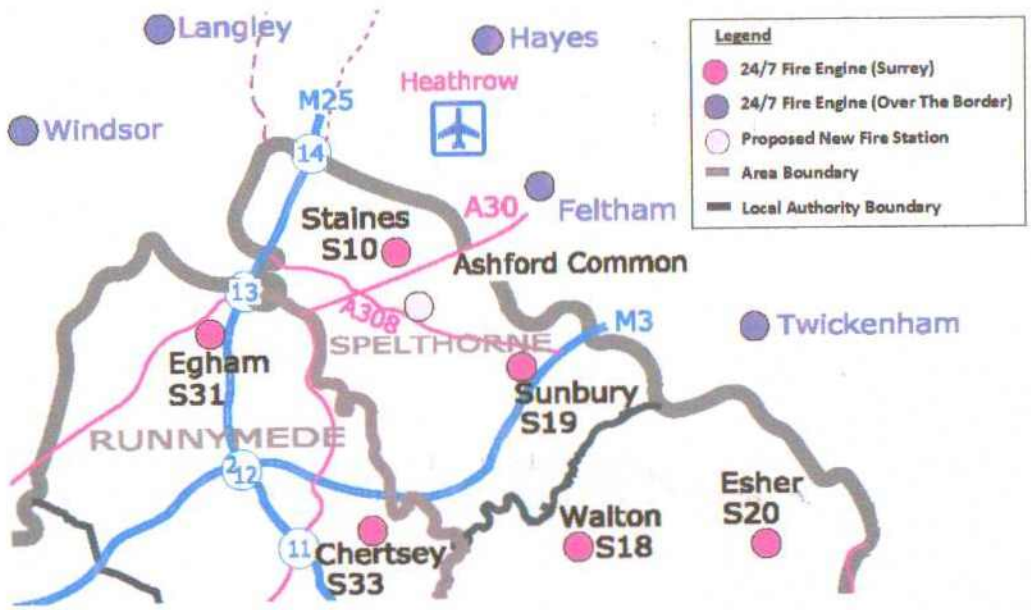
Spelthorne is surrounded by Surrey fire stations in Egham, Chertsey, Walton and Esher plus others based in London. London Fire Brigade have recently published their proposals to make changes to the disposition of fire engines in London, but none of the stations along the border with Surrey are affected by these proposals.

Making a decision: After the consultation has closed we will review our proposal in light of the feedback received. We will then present a final proposal for the provision of emergency response cover in Spelthorne to Surrey County Council's Cabinet, as the Fire and Rescue Authority, for decision. If the proposal is supported we will commence implementation during 2014.

Have your say: We encourage residents to have their say on how fire and rescue services are provided. These proposals, along with further information, are detailed in an online questionnaire which is open until 4th November 2013. Please contact us if you would like to receive a postal questionnaire.

If you would like this information in large print, Braille, on tape or in another language please contact us.

Map showing current stations and indicative position of proposed station



How can I take part in the consultation process?

- By completing the online questionnaire at www.surrey-fire.gov.uk/psp
- By emailing comments to psp@surreycc.gov.uk
- By writing to: PSP Team, Surrey Fire and Rescue Service, Croydon Road, Reigate, Surrey, RH2 0EJ
- By telephone: **03456 009 009**
  By fax: **01737 222857**

SMS: **07527 182 861**
Minicom: **020 8541 9698**