



Emergency Medical Service Delivery

October 29, 2020



Second Class Township Code

- ▶ S 601: The Board of Supervisors shall be charged with the general governance of the township and the execution of legislative, executive and administrative powers in order to ensure sound fiscal management and to secure the health, safety and welfare of the citizens of the township. ¹
- ▶ S 1553: The township shall be responsible for enforcing that fire and emergency medical services are provided within the township by the means and to the extent determined by the township, including the appropriate financial and administrative assistance for these services. ²

¹ Second Class Township Code, Section 601, Commonwealth of Pennsylvania

² Second Class Township Code, Section 1553, Commonwealth of Pennsylvania



Terms and Definitions

- Emergency Medical Service (EMS)
- Emergency Medical Technician (EMT) v Paramedic
- Basic Life Support (BLS)
- Advanced Life Support (ALS)
- Mobile Intensive Care Unit (MICU)
- Ambulance
- Intercept
- Unit
- Unit Hour Utilization (UHU)
- Region

The Kennett Township Real Estate tax for Emergency services does not fully support EMS expenses

	2020 Revised Budget	2021 Requested Budget	% Change	Comments
Emergency Services Revenue Real Estate Tax dedicated to Emergency Services	1,474,000	1,488,000	1%	Legally a Real Estate Tax General Millage but dedicated to EMS. Fines, penalties & misc add an immaterial amount of additional revenue. Most ticket revenue stays with court system.
Police Expenses	1,443,525	2,180,644	51%	2021 includes all requests which is likely to be reduced before final budget.
Fire & Ambulance Expenses				
Commission	470,000	566,185	20%	
Other (Hydrants, Fire Marshall)	67,054	68,168	1.6%	
Net (Revenue minus Expenses)	-506,580	-1,326,996		Even with reduction yet to be finalized, the tax still can't cover expenses.



Action Forcing Event

- ▶ Independent Consultant Reviewed Emergency Services in Region; Recommended Moving to Single Provider for EMS 3
- ▶ In 2018 Commission recommended consolidating EMS Service Delivery to one provider in Kennett Township and the Borough of Kennett Square. The Kennett Township BOS has taken no action to date.
- ▶ 2021 Regional Commission Funding Schedule includes 15% increase.
3.5




Current EMS Service Delivery

- ▶ Current Companies are Kennett Fire Company and Longwood Fire Company
- ▶ MICU and Ambulance + interceptor
- ▶ Territory Divide

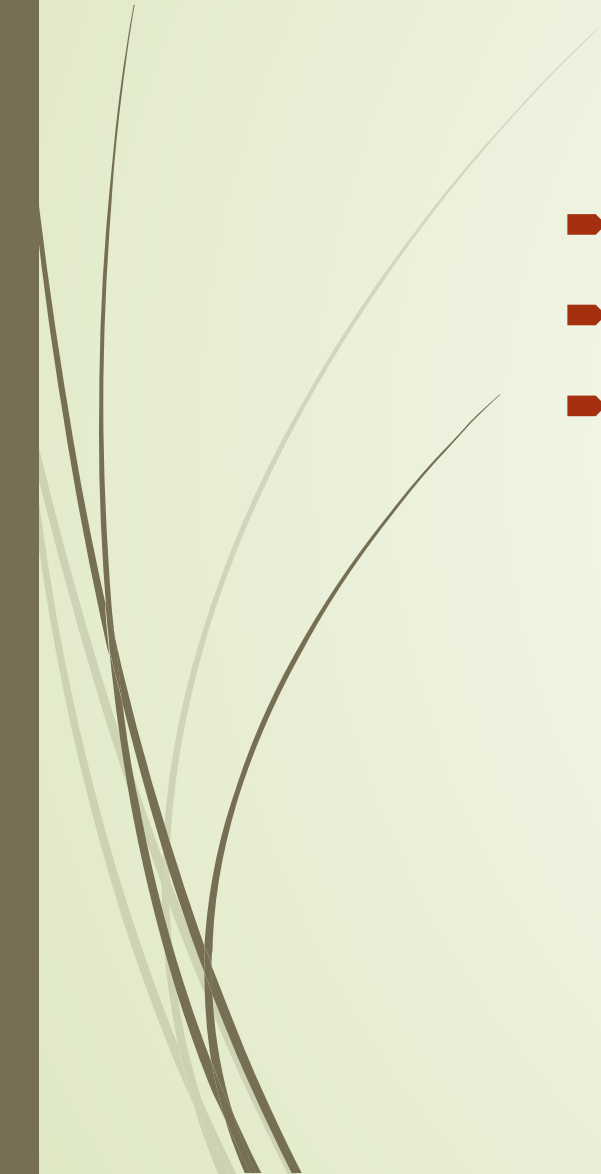


What Happens on an ALS Call?

- ▶ Two units may be taken out of service for the duration of the call
 - ▶ Up to four providers are taken out of service for the call
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Proposed EMS Service Delivery

- Consolidation to Longwood Fire Company
 - Transition to MICU model from current Ambulance + Intercept
 - Territory Changes
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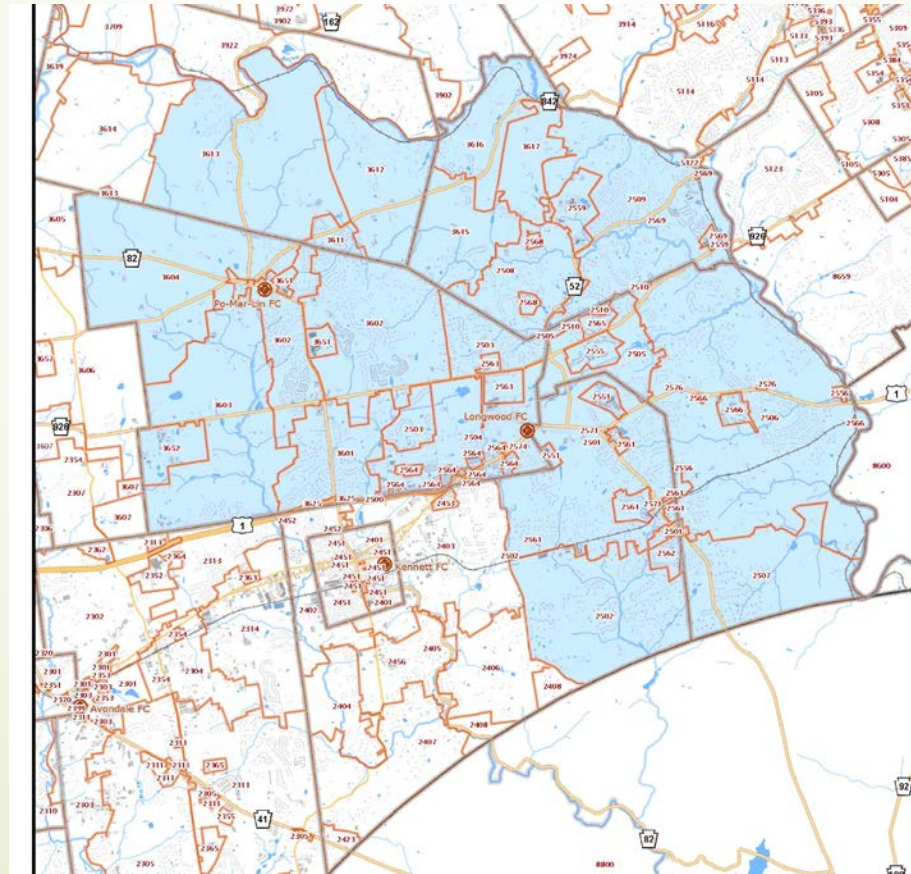


Analysis

- ▶ Recommend Kennett Township be served by Longwood Fire Company MICU for ALS and BLS
 - ▶ Service Delivery Change for Kennett Township Residents
 - ▶ UHU Improvement for Region
 - ▶ Cost Savings for Region
 - ▶ Cost Savings for Township
 - ▶ Cost Savings for End User

Service Delivery Change

- MICU v Ambulance + Intercept



UHU Improvement

- Target UHU = 30% ⁴
- Operational Efficiency for Region
- Elimination of 24 Hour BLS Unit
- Addition of 8-hour ALS Unit
- Response time change ⁵

EMS Unit Schedule (Current)	Total Hours	Calls for service	Call Hrs. (1.5)	UHU @ 1.5 hrs.
24/7 MICU 25 (Longwood)	8736			
16/7 MICU 25 (Longwood)	5824			
24/7 Amb 24 (Kennett)	8736			
Totals	23296	3100	4650	20%

EMS Unit Schedule (Proposed)	Total Hours	Calls for service	Call Hrs. (1.5)	UHU @ 1.5 hrs.
24/7 MICU 25 (Longwood)	8736			
24/7 MICU 25 (Longwood)	8736			
Totals	17472	3100	4650	27%

⁴ Fitch, Joseph, Ph.D., The New EMS Imperative: Demonstrating Value, ICMA Publishing, 2015

⁵ Chester County Computer Aided Dispatch Kennett Fire Company, Longwood Fire Company 201 Year End Calls for ALS Service



Response Time and Positioning

- ▶ Recommend a MICU be stationed in the Borough of Kennett Square
- ▶ Will there be a change in response time?
- ▶ Are there going to be missed calls?



Cost Savings to Region

- ▶ Kennett Fire Company 2021 EMS Expense Budget = (\$471,710) ⁶
- ▶ Longwood Fire Company 2021 EMS Expense Budget = (\$1,587,872) ⁷
- ▶ Cost of Longwood Fire Company to add 8 hours of MICU = (\$251,000) ⁸
- ▶ Savings to region = \$208,210

⁶ Kennett Fire Company 2021 Proposed Budget

⁷ Longwood Fire Company 2021 Proposed Budget

⁸ Longwood Fire Company Proposed Budget Revised EMS Delivery

Cost Savings to Township

➤ Township funding to Commission based on:

- Population
- Assessed Value of Township
- Call Volume 9
 - Double "call" 241 times in 2019 10

Municipal Funding	2018-2020 Funding	15% Increase Revised Metrics	Funding w/o dual dispatch in Kennett Twp.	Increase/(decrease)	Funding w/o dual dispatch in Kennett Twp. and KSQ	Increase/(decrease)
Kennett Township	\$ 469,957.00	\$ 591,521.00	\$ 563,115.00	\$ (28,406.00)	\$ 576,706.00	\$ (14,815.00)
Kennett Square	\$ 254,631.00	\$ 353,260.00	\$ 364,075.00	\$ 10,815.00	\$ 329,420.00	\$ (23,840.00)



Cost to Kennett Resident End Users

- ▶ 427 BLS Transports in Kennett Fire Company Territory
- ▶ Gross Billings = ~ \$414,000
- ▶ BLS Billings Under Longwood Fire Company increase by ~\$115,000



Cost Savings to Kennett Resident End Users

- 241 Dual Dispatch in Kennett Township in 2019 ¹²
- Gross Billings = ~\$450,000 ¹³
- Billings under new single provider = ~\$375,000 ¹⁴
- Over billing to Kennett Township Residents = ~\$178,500

- Average ALS bill to resident west of Bayard Road = ~\$1,845 ¹⁵
- Average ALS bill to resident east of Bayard Road = ~\$1,395 ¹⁶

¹² Ibid, Chester County Computer Aided Dispatch

¹³ Kennett Fire Company, Longwood Fire Company, Gross EMS billings 2019

¹⁴ Ibid Kennett Fire Company, Longwood Fire Company, Gross EMS billings

¹⁵ Ibid

¹⁶ Ibid



Recommendation

- ▶ Proposed Motion

- ▶ Motion to authorize a change in Emergency Medical Service Provider territory to allow Longwood Fire Company to provide Advanced and Basic Life Support as the first due responder in Kennett Township effective January 1, 2021.