

February 9, 2024

Senator Brian J. Feldman, Chair
Senator Cheryl C. Kagan, Vice Chair
Education, Energy, and Environment Committee Maryland General Assembly
11 Bladen St.
Miller Senate Office Building
Annapolis, Maryland 21401

Re: SB0586 - Public Safety - Corrugated Stainless Steel Tubing for Gas Piping Systems
Requirements and Prohibitions

Dear Senator Feldman and Senator Kagan,

My name is Sara Laird, and I am the widow of Frederick County Battalion Chief Joshua Laird. My husband was killed in the line of duty on August 11, 2021, while fighting a fire in Ijamsville, Maryland. The cause of the fire was determined and documented in the after-action report to be a failure of the Corrugated Stainless Steel Tubing (CSST) under lightning strike conditions. My husband served the citizens of Maryland for 21 years. He was also a loving father, husband, son, brother, fireman, and friend. His death has left an enormous void that will never be filled, nor will our grief ever be gone.

I am writing to you today in support of SB0586. Since the day I learned of the cause of my husband's fire, I have been continually educating myself and researching CSST. There are no words to adequately describe my feelings when I learned that not only are the dangers of CSST well-researched and documented but they have also been known by the industry since the mid-2000s. Even more distressing was the fact that an almost identical fire was responsible for the death of Lt. Nathan Flynn of Howard County three years before my husband's death and the death of a Frederick County citizen.

The proposed bill will require CSST products sold or installed in Maryland to meet safer testing criteria. It also provides the ability to enforce the legislation by establishing a fine for violating the sale or use of products that do not satisfy the testing criteria. In 2016, the National Association of State Fire Marshalls publicly called to raise the ANSI LC1 performance standard by requiring a more vigorous testing protocol (ICC-ES PMG LC1027). Massachusetts Institute of Technology (MIT) has also conducted significant research on CSST, which supports using the LC1027 testing criteria. Unfortunately, the industry has been slow to adopt these recommendations, prioritizing profits over safety.

Based on my research, I have documented 23 CSST fires in Maryland over the past six years; however, this number is certainly not representative of the actual number of CSST fires. Currently, there is no system to track these fires, and absent a fatality, there is often no

investigation that would identify and document the connection to CSST. The danger of CSST fires grows by the year as we continue to experience more extreme weather. Based on research conducted by the University of California, Berkeley, for every 1 degree Celsius (1.8 degrees Fahrenheit) rise in the global average temperature, lightning strikes will increase by about 12%. Dr. David Rompas, a researcher at UC Berkeley, stated, "For every two lightning strikes you had at the beginning of the century, we will have three at the end of the century." The current testing criteria only ensure that CSST used in Maryland can withstand up to 1000 amps or 4.5 Coulombs but research from the Lightning Protection Institute shows that the average lightning strike ranges from 24 to 28 Coulombs. Combining this with the continued increase of population density, the question is not if there will be another CSST fire and fatality, but when. Regardless of what the industry might say or how they might try to confuse the conversation, science provides unbiased truth.

Had the LC1027 testing criteria been the law in Maryland, my husband would still be here. I would not be a widow, and my daughters would still have their father. It is time to take action to protect the citizens of Maryland and firefighters. My husband was a dedicated public servant. Please do not let his death be in vain; my greatest hope is that his legacy will be to continue his service to Maryland by protecting others from the same fate. Thank you for considering this legislation. I respectfully ask the Education, Energy, and Environment Committee for a favorable report of SB0586.

Sincerely,

Sara Laird

Sara Laird
Widow of Battalion Chief Joshua Laird