

SE Shires

Implementing Aqueous Cleaning in Brass Instrument Manufacturing

What we do; What our challenges have been; What we're doing now and What comes next



About SE Shires

- Eastman Brass Instruments, LLC, S.E. Shires Co.
- Manufacture of custom brass musical instruments



Vapor Degreaser

- Used TCE and nPB until 2017
- But still a challenge to clean difficult parts and contaminants
- Worked with OTA





Difficult to clean bell engraving



1st stage cleaning of a trombone bell

- Ultrasonic tank 2017 (in-house R&D)
 - Matchless 160L (formaldehyde-based cleaner)
 - Captures buffing dirt
- Worked with TURI Lab to identify safer option
 - Kyzen Metalnox M6345 cleaner (summer 2022)



Next Steps

Reduce the number of cleaners used

Setup additional ultrasonic cleaning tanks

Address rinse water quality issues