



## Pollution Prevention Institute

### Kansas TCE Roundtable

January 26, 2021 8:30 a.m.

Hosted by K-State Pollution Prevention Institute (PPI)

Virtually at <https://ksu.zoom.us/j/92788460629>

#### Agenda

Time	Topic
8:30 a.m.	<b>Welcome, introductions and opening remarks</b> <ul style="list-style-type: none"><li>• <i>Nancy Larson, K-State Pollution Prevention Institute</i></li></ul>
8:45 a.m.	<b>EPA presentation: TSCA TCE update and discussion</b> <ul style="list-style-type: none"><li>• <i>Katie McNamara, Office of Pollution Prevention and Toxics, EPA Headquarters</i></li></ul>
9:30 a.m.	<b>Short break</b>
9:40 a.m.	<b>TCE alternative research</b> <ul style="list-style-type: none"><li>• <i>Katy Wolf, Ph.D. – Solvent alternative consultants - Region 10 aerospace projects</i></li><li>• <i>Alicia McCarthy and Hayley Byra – Toxics Use Reduction Institute</i></li></ul>
10:45 a.m.	<b>Update:</b> <ul style="list-style-type: none"><li>• <a href="#">International Aerospace Environmental Group</a> (IAEG) – Christer Hellstrand</li><li>• <a href="#">Aerospace Industries Association</a> (IAI) – David Hyde invited</li></ul>
10:50 a.m.	<b>New solvent reduction project with PPI</b> <ul style="list-style-type: none"><li>• <i>Spirit AeroSystems – Alex Tobia</i></li></ul>
11:10 a.m.	<b>Wrap up discussion</b> <ul style="list-style-type: none"><li>• <i>Next steps: industry needs and interests</i></li></ul>

**Thanks to EPA for providing Pollution Prevention (P2) funds to support this meeting.**

## TEN TIPS FOR REPLACING TRICHLOROETHYLENE (TCE)

Safer alternatives exist for nearly every use of trichloroethylene (TCE). The [Toxics Use Reduction Institute \(TURI\) Laboratory](#) has helped more than two dozen companies identify and adopt safer alternatives. If you are still using TCE, consider these 10 tips for finding a replacement:

- 1. Determine why you are cleaning with TCE:** *If the answer is "because we always have" or "it is the only thing I trust" then it may be time to re-address your cleaning methods. The first thing to do is inform your customers and supply chain that you are going to investigate how to eliminate TCE from your process.*
- 2. Know your process:** *How long does it take to clean parts? How many do you clean at a time? What equipment could you use (immersion baths, spray washing, or ultrasonics)? Are you willing to evaluate new equipment?*
- 3. Don't start from scratch and don't go it alone:** *Learn what's already been tested by other companies and then apply your unique requirements. Search the TURI [CleanerSolutions](#) database online for hundreds of tests conducted on the latest cleaning alternatives.*
- 4. Test the alternatives:** *Use the TURI Lab to find out how different cleaners and equipment perform on your parts and soils.*
- 5. Get your workers involved:** *The people who run the cleaning process in your facility have valuable insight. Get them involved in the selection and testing process to ensure a successful transition.*
- 6. Pilot the alternative:** *Set up a separate cleaning line to clean parts in the new chemical solution and compare with your current practice.*
- 7. Check in:** *During the piloting, keep your customers and your supply chain informed of the status of the project. Get their feedback about the quality of the results.*
- 8. Phase in - Phase out:** *Introduce the new process to part of your production line in a step-wise manner. You can gradually phase out the existing cleaning with TCE.*
- 9. Reevaluate the process:** *Once TCE has been eliminated, evaluate how well your new process is working. See if you can go further to eliminate more solvents and toxics in other phases of your business.*
- 10. Revisit the process:** *Congratulations on making the switch, but don't stop thinking about your cleaning process. New chemistries and equipment are being developed all the time so keep your eyes and ears open. Check out the free, online TURI [CleanersSolutions](#) database often and ask the [TURI Lab](#) to visit again to help you reevaluate.*

[This information is provided by and adapted from the Massachusetts Toxics Use Reduction Institute \(TURI\) at the University of Massachusetts Lowell.](#)