

TURA Program Update

Nov 14, 2023 Liz Harriman -TURI Lynn Cain & Rebecca Dolan - MassDEP Kari Sasportas - OTA







Agenda

- TURA Governing & Advisory Bodies
- Decision making under TURA
- SAB update
- TURA Reporting Changes
- Staffing changes
- TURA program agency updates
- Breakout Q&A with MassDEP, OTA and TURI

TURA Governing and Advisory Bodies



Science Advisory Board

Managed by TURI
Appointed by Governor
Recommends chemicals



Advisory Committee

Appointed by Secretary

Multi-stakeholder policy input

Advises Administrative Council



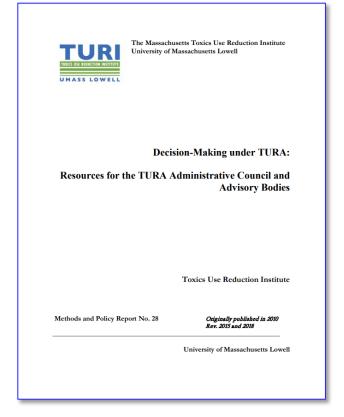
Administrative Council

Chaired by Secretary or designee

TURA governing body

<u>Decision-Making Under TURA</u>: Resources for the TURA Administrative Council and Advisory Bodies

- Origin: The TURA Administrative Council requested this document be created to reference decision making processes and roles
- Designed as a resource for members of the TURA Governing and Advisory Bodies
- Resources include:
 - Overview of principles, roles and responsibilities related to TURA program decision making
 - Outline of current practices regarding listing and delisting decisions, chemical categorization, and other TURA program decisions
 - Background information on other topics, such as the role of expert judgment in decision making
- Living document, designed to be updated over time



Science Advisory Board

- Recommendation to list a category of EPA Registered ADBAC (19 specific CAS #s) and DDAC (5 specific CAS #s) quaternary ammonium compounds (QACs, or "quats")
 - QACs fact sheet
 - OACs policy analysis presented to Advisory Committee and Administrative Council
- Deliberations on Carbon Nanotubes and Carbon Nanofibers petition
 - SAB Recommendation to list Single- (SWCNTs) and Multi-Walled Carbon Nanotubes (MWCNTs) and Carbon Nanofibers (CNFs)
 - SAB Recommendation to designate Multi-walled Carbon Nanotubes as Higher Hazard
 Substances. SAB voted to put SWCNT and CNF on SAB's more hazardous chemicals list
- Flame retardants advising MassDEP on new MA flame retardants law
 - SAB Meeting minutes and materials

Administrative Council Update

- Aug 10 meeting of Administrative Council voted to open public participation process for:
 - EPA TRI additional chemicals
 - Quaternary Ammonium Compounds

Current Regulations Package: Toxics Release Inventory (TRI) Additions

EPCRA (TRI) Additions are **required**

"Each year the council shall adjust the toxic or hazardous substance list to add or delete substances consistent with changes in said toxic chemical list."

M.G.L 21I, §9(A)

EPCRA (TRI) Additions

9 PFAS

100 lb threshold

DINP Category

Normal TURA threshold (25k/10k)

12 Other Chemicals

11 normal TURA threshold (25k/10k)
One 100 lb threshold

Some Differences between TURA & TRI

TURA	TRI		
State regulation	Federal regulation		
Focus on source reduction	Focus on releases/emissions		
Report annually to MassDEP on process/manufacture/otherwise use/byproduct	Report annually to US EPA on releases to air/water/soil		
More substances: Includes substances under both EPCRA (which includes TRI) and CERCLA, as well as listings specific to TURA. 1708 total listed entries, including 60 categories (301 CMR 41)	Fewer substances: Current TRI toxic chemical list contains 775 individually listed chemicals and 33 chemical categories.		
TUR planning every two years – plan summary sent to DEP	Tracks and shows P2 efforts		

US EPA Changes to TRI Reporting for PFAS

EPA has finalized a rule to eliminate *de minimis* exemption for PFAS reporting and supplier notification requirements under TRI



Toxics Release Inventory (TRI) Program

How this will impact TURA:

Providing Pollution Prevention and Toxic Chemical Release Information

Eliminating de minimis exemption will likely result in increased PFAS reporting under TURA

- For TRI-listed PFAS on the TURA list, the 100 lb. TRI threshold is used
- For other PFAS on the TURA list, the thresholds are 25,000 lbs manufactured/processed, 10,000 lbs otherwise used, and the de minimis exemption still applies
- More PFAS source information will be captured through new supplier notification requirements
- NEW: <u>Updated OTA PFAS Supplier Notification Letter</u>

PFAS Tracking and Reporting: TRI and TURA

	Report to TRI	TURA tracking starting	Report to DEP	How Reportable	Threshold
TURA Certain PFAS NOL		January 1, 2022	July 1, 2023	As a category	25,000 lbs. manufactured/ processed; 10,000 lbs. otherwise used
172 TRI/TURA PFAS – 2020	July 1,2021	January 1, 2021	July 1, 2022	Individually	100 lbs. (de minimis exemption no longer applies)
Four TRI PFAS - 2021	July 1, 2022	- January 1, 2023	July 1, 2024		
Four TRI PFAS - 2022	July 1, 2023				
Nine TRI PFAS - 2023	July 1, 2024	Anticipated January 1, 2024	Anticipated July 1, 2025		

New Leadership



Executive Office of Energy and Environmental Affairs

- Rebecca Tepper, Secretary
- Stephanie Cooper Undersecretary for the Environment



MassDEP – New Commissioner, Bonnie Heiple



UMass Lowell – New Chancellor, Julie Chen

Staff updates



Elisheva Thoreen, OTA

Environmental Engineer

Retirement of Jim Cain, longtime Environmental Engineer



Rebecca Dolan, MassDEP

Environmental Analyst



Gabriel Salierno, TURI

Green Chemist

Karen Thomas, TURI

EHS Specialist

Katie Daly, TURI

Communications and Outreach

Stephan Anstey, TURI

Office Assistant

Alex Symko, TURI

Safer Chemicals Specialist

Amelia Wagner, TURI

Safer Chemicals Specialist

TURA Program Agency Updates







Toxics Use Reduction Institute (TURI)

TOXICS USE REDUCTION INSTITUTE

UMASS LOWELL

- Education and Training for TUR Planners
- Science and Policy
 - Science Advisory Board
 - Policy Analysis, Data Analysis
- Research, development and assessment of safer alternatives
 - University research grants
 - Laboratory services for industrial and janitorial cleaning
 - Alternatives assessment
- Technical and financial support to businesses and communities
 - Grants and information resources
 - Business supply chain workgroups and research





The Commonwealth of Massachusetts

A Proclamation

Whereas, Champions of Toxics Use Reduction Day recognizes outstanding leaders who are making the Commonwealth a safer place for all residents to live, work, learn and play, and

Whereas, Many businesses rely heavily on hazardous chemicals, and their use results in risks to workers, surrounding communities and the environment. But these champions are the leaders working to create an economy that doesn't rely on toxic chemicals and instead prioritizes health, safety and equity and

Whereas, These champions show us that there are other ways to do business — the status quo can be changed. Everyone — whether they are firefighters or electronics manufacturers — can make a difference by replacing harmful chemicals; and

Whereas, Choosing safer alternatives protects both the public and the bottom line. When companies and communities step up and reduce dependence on toxic chemicals, it creates a ripple effect that inspires other businesses, industry feaders, and communities to join the movement as well and

Whereas, These champions — and the 30 years of champions that precede them — prove that when businesses look for opportunities for toxics use reduction, it encourages and enables them to go beyond the scope of regulations and prioritize chemical safety in other areas.

Now, Therefore, I, Maura T. Healey, Governor of the Commonwealth of Massachusetts, do hereby proclaim June 20st, 2023, to be,

CHAMPIONS OF TOXICS USE REDUCTION DAY

And urge all the citizens of the Commonwealth to take

Given at the Executive Chamber in Boston, this first day of June, in the year two thousand and twenty-three, and of the Independence of the United States of America, the two hundred and forty-sixth.

BY HER EXCRUSING

MAYAA T. HEALEY
GOVERNOR OF THE COMMONWEATTH

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ET. GOVERNOR OF THE COMMONWELLTH

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God Save the Commonwealth of Massachusetts













CHAMPIONS OF TOXICS USE REDUCTION CEREMONY

June 20, 2023 Great Hall, State House

11:00 a.m. to 12:00 p.m. Presentation of Awards

12:00 to 1:30 p.m. Networking & Light Lunch

Welcoming Remarks

Baskut Tuncak

Director, Toxics Use Reduction Institute, University of Massachusetts Lowell

Representative Daniel Cahill

Co-Chair, Joint Committee on Environment and Natural Resources

Industry Awards

S.E. Shires Steel Art Company

Small Business Awards

Donoma Gymnastics
Conklin Office Furniture

Community Awards

Nantucket PFAS Action Group & Firefighter Partners

Industry & Research Awards

Transene Company & UMass Lowell's Nagarajan Research Team

Undersecretary Stephanie Cooper

Undersecretary for Environment, Executive Office of Energy and Environmental Affairs

Representative Kate Hogan

Speaker Pro Tempore, House of Representatives

Commissioner Bonnie Heiple

Commissioner, Massachusetts Department of Environmental Protection

Dr. Anne Maglia

Vice Chancellor for Research and Innovation, University of Massachusetts Lowell

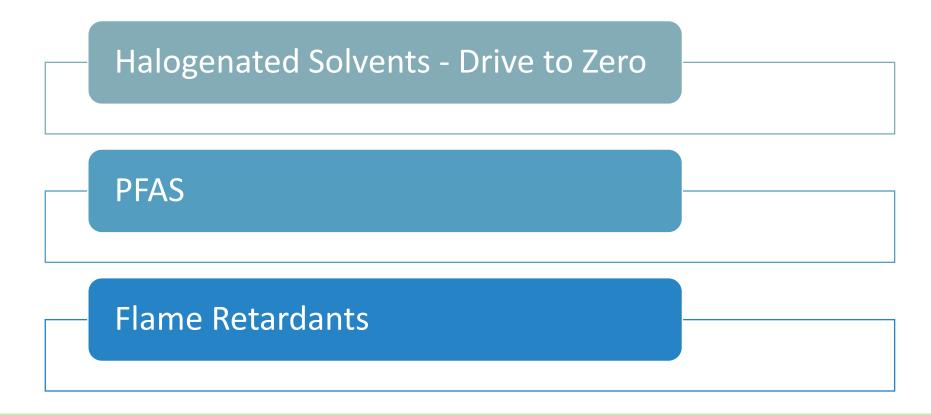








TURI Strategic Priorities



FY23 Champions of Toxics Use Reduction

Focus on Safer Solvents

- S.E. Shires, Holliston
 - substituted ultrasonic cleaning for halogenated solvents
- Steel Art Company, Norwood
 - substituted aqueous cleaning for nPB
- Conklin Office Furniture, Holyoke
 - testing alternatives for safer adhesives and thinners



FY23 Champions of Toxics Use Reduction

Focus on PFAS

- Prof. Ram Nagarajan, UMass Lowell, partnering with Transene Co., Danvers
 - Surfactants in electronics manufacturing
- Nantucket PFAS Action Group, with firefighter partners in Fall River, Hyannis and Nantucket
 - Reducing PFAS in firefighter turnout gear
 - Training for firefighters around PFAS





FY23 Champions of Toxics Use Reduction

Focus on Flame Retardants

- Donoma Gym, Stow
 - Replacing foam pit cube with non-flame retardant foam cubes



TURI FY24 Grants

- Business Grants research, evaluate and adopt safer alternatives to toxics
 - Food processing and furniture manufacturing
- Academic Research Grants Safer alternatives to PFAS in manufacturing and products
 - Non-PFAS coatings for textiles and food packaging; UML PIGE analytical equipment
- Community Grants focused on PFAS and toxics in children's play spaces
 - Making use of UMass Lowell PIGE analytical equipment to detect PFAS

Training and Education

Toxics Use Reduction Planner Certification Course – Exam Dec 8

- 16 people in this year's class, predominantly from MA companies
 - Companies are investing in their staff to guide excellent TUR planning!
- Contact Pam if you have someone on your team you'd like to consider becoming a TUR Planner!





Upcoming Training Opportunities

- VCN Demonstration Dec 13, 2023, 1-3 PM
 - At TURI's Lab, Lowell
- RC Planner Certification course
- Additional technology demonstrations
- Spring TUR conference in person
 - Dates and location to be announced

Track upcoming events from TURI's home page or calendar: www.turi.org

OTA Updates

- OTA Technical Assistance
- PFAS Identification
- PFAS Surveys
- Ongoing Collaboration with WWTFs
- Environmental Justice



Office of Technical Assistance (OTA)

- Non-regulatory agency
- Provides free, confidential technical and compliance assistance to MA businesses that use toxic substances
- Gives concrete recommendations for toxics reduction and resource conservation

OTA has conducted 3,500 site visits at 1,500 facilities, reducing **millions of pounds** of toxic chemicals and **millions of dollars** in operating costs.

Identifying PFAS Use in a Facility

Look for common uses of PFAS

Check available CAS numbers against reportable definition

Send a notification letter to your chemical or product supplier

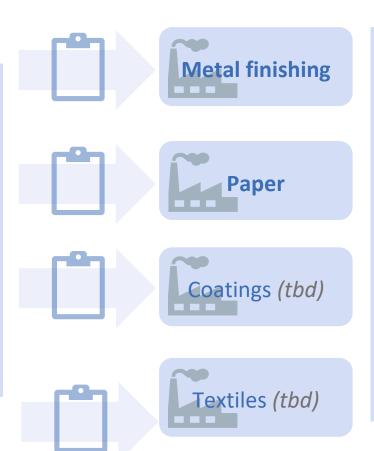
Contribute to developing product list

- Common uses include textile coatings (e.g., water-repellency), surfactants, degreasing (e.g., solvents), metal finishing (e.g., fume suppressants), polymers and resins, and AFFF
- · Check your SDSs for products likely to contain PFAS
- Note listings described as Confidential Business Information (CBI) or proprietary as items of concern – contact your supplier or OTA for help
- Review <u>TURA guidance</u> and use reportable definition to check CAS # against <u>existing databases</u>
- Paper and metal finishing industries, contact OTA to take survey
- If no CAS numbers are available for fluorinated compounds, contact your supplier or <u>OTA</u> for technical assistance
- Use <u>OTA's template</u> to notify your supplier
- Involve your purchasing department in this effort
- Keep records to demonstrate good faith effort
- The TURA program is developing a list of products confirmed to contain PFAS
- If your supplier notifies you of products containing PFAS, please share this information with OTA/TURI

TUR Resources: Per- and Polyfluoroalkyl Substances

Resources for Companies: PFAS Identification

Assessments to identify PFAS sources



- OTA technical staff flag likely sources of PFAS
 - Companies may share list of CAS numbers with OTA
- OTA pursues research on products of concern
- Companies may opt to share product information with OTA to populate a list of PFAS-containing products

TUR Resources: Per- and Polyfluoroalkyl Substances

Wastewater Treatment Facilities (WWTF) & Upstream Manufacturers

WWTF introduces
OTA to manufacturers

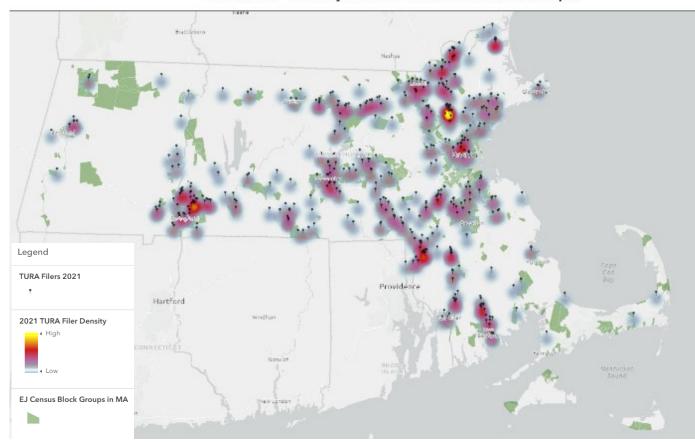
OTA follows up with manufacturers

OTA works with company on PFAS/toxics use reduction

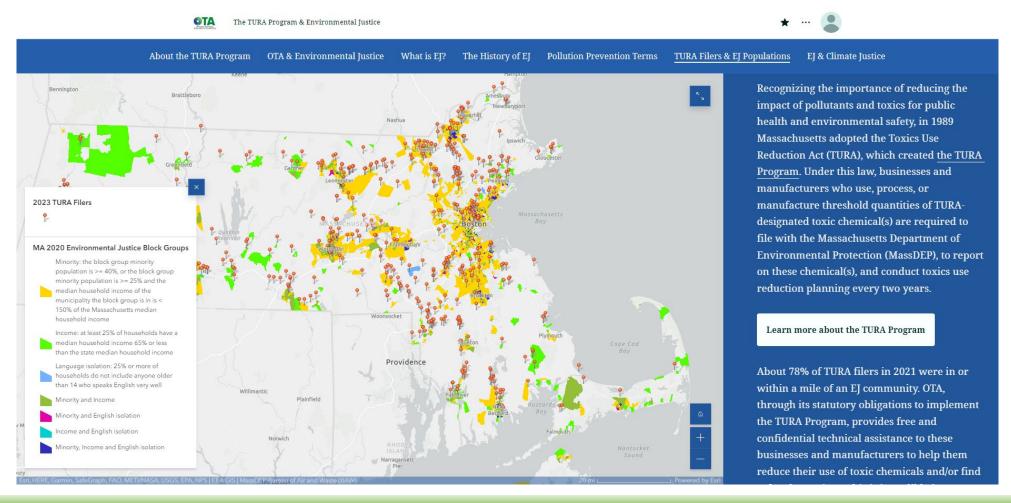
OTA Environmental Justice (EJ)

- OTA seeking candidates for new EJ seat on Advisory Committee
- OTA actively involved in EJ and climate justice work
- OTA developing GIS Story Map to illustrate current toxics use and release in relation to current EJ populations and historical redlining
- OTA has dedicated funding for new EJ internship position

TURA Filer Density and EJ Census Block Groups



OTA Environmental Justice Story Map



Massachusetts Dept. of Environmental Protection (MassDEP)



- Promulgates regulations based on environmental legislation, and issues policies and procedures to support the regulations
- Inspects regulated facilities to ensure regulatory compliance, and issues enforcement for non-compliance
- Provides outreach and education on regulatory programs
- Certifies TUR planners
- Evaluates program success and provides analysis for program improvement

Recent MassDEP Actions (RY2019-RY2022)

2 Reporting Penalty Assessment Notices (RPAN)

43 Notices of Noncompliance (NON) and 8 Warning letters issued to facilities

5 NONs issued to TUR Planners

MassDEP Enforcements

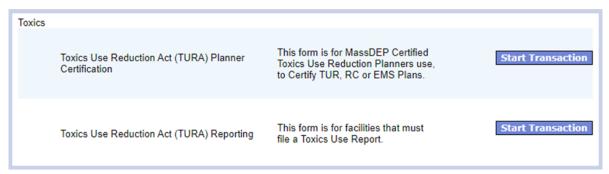
Violations seen include:

- Failure to file
- Missing chemicals
- Failure to respond to QA/QC request
- Missing or incomplete Plan Summaries
- Improper certification
 - Missing TUR Planner certifications
 - Failure to hire an active TUR Planner
 - Hiring a TUR Planner not certified to sign for the type of Plan completed
 - Signing a TUR Plan when Planner's certification had already expired
 - Signing for a Plan type that the TUR Planner not certified for

MassDEP has started the TURA audit program again

Reminders for the Upcoming Year

- RY2023 is a Planning Year
- File on Time
- Need to file BOTH the TURA Reporting packet and the TURA Planner Certification packet found in eDEP

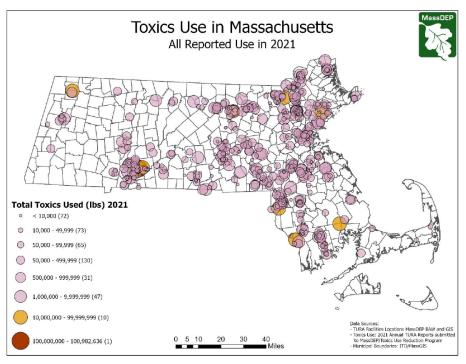


Questions when filing? contact MassDEP (tura.program@mass.gov)

Reminders for the Upcoming Year (cont.)

- If you filed an RC Plan in the prior planning cycle, file BOTH an RC Plan Progress Report AND a traditional TUR Plan.
- TUR Planners should check their certification status
- Mistakes in your filing? AMEND the report
- Outreach is sent to the "Authorized Signer" listed on the Toxics Use Fee Worksheet
- Utilize the most up-to-date versions of the TURA chemical list.

TURA Information Release: Reporting Year 2021 (2007 Core)



TURA Data online tool & dashboard

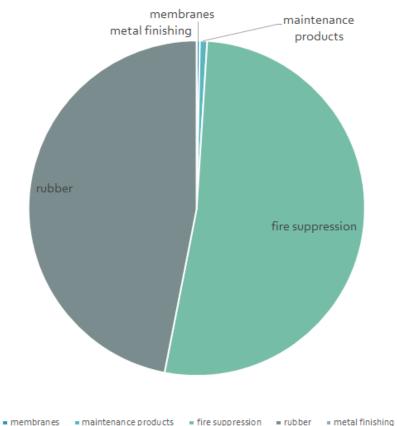




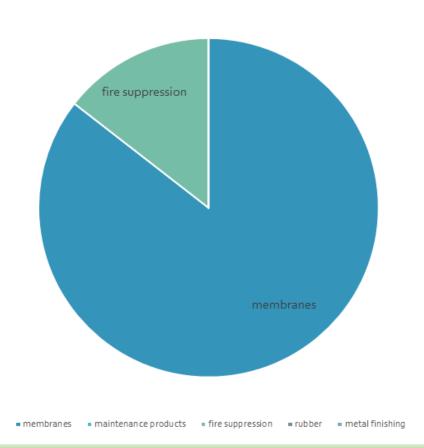
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TURA Data - Preliminary information on Certain PFAS NOL category





2022 Preliminary PFAS Releases by TURA Filers



Job opportunities



- MassDEP <u>Environmental Analyst III PFAS position</u> (priority review before Nov 15)
- TURI policy analyst job description
- NEWMOA positions
 - IC2, IMERC & TPCH Project Staff/Managers job description
 - Solid Waste, Haz. Waste Senior Project Staff/Manager job description

Contact us any time!



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Heather Tenney heather@turi.org
General inquiry: info@turi.org
TURI Team contact information



Tiffany Skogstrom <u>tiffany.skogstrom@mass.gov</u>

Also contact Tiffany for Administrative Council and Advisory Committee questions

OTA Staff: https://www.mass.gov/service-details/otas-team



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