



# Dry Cleaners TOXICS USE REDUCTION Opportunities Matrix



For use with MassDEP's Toxic Use Reduction Program





This Toxics Use Reduction Opportunities Matrix is being provided as a simple way to document your efforts to reduce the use of perchloroethylene or reduce the amount lost as emissions and leaks.

For most dry cleaners TUR involves many of the steps already taken to comply with air emission requirements. The ideas listed here are taken from the *Dry Cleaners Environmental Certification Workbook* and other governmental publications.

#### Important Notice

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### Step One. Gathering Information on Possible TUR Activities

We contacted the following information sources on how to reduce chemical usage or minimize waste:  $\$ 

General Literature, such as	ID Code
A Pollution Prevention Guide for the Dry Cleaning Industry	
www.dnrec.state.de.us/deldrycl.htm	T-1
Assistance & Pollution Prevention for Garment Cleaning	
http://www.newmoa.org/prevention/newsletters/18-2/vol18_2.pdf	Т-2
<b>More Technical Literature</b> , such as	
A Feasibility and Cost Comparison of Perchloroethylene Dry Cleaning to Wet Cleaning	Professional
http://www.turi.org/Our Work/Small Businesses/Dry Cleaning	_
	Т-3
Talked to vendors and/or equipment manufacturers.	Т-4
Visited or plan to visit a TURI's Wet Cleaning Demonstration Sites	T-5
Brain-Storming sessions with workers	Т-6
Consulted with Office of Technical Assistance personnel	T-7
Other sources of information:	Т-8

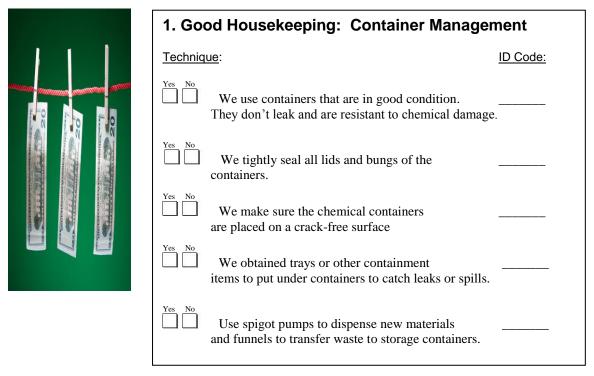
NOTE: In the matrix that follows insert the appropriate idea code for the source of your information on the TUR technique.





## Step Two. Matrix of Possible TUR Activities

Good housekeeping and leak detection/repair are easy methods of preventing waste that **also save money.** 



These are not the ONLY container management techniques that are TUR. List any others you are using.

Technique:	ID Code:





Describe the steps you have taken to insure all these efforts remain in place.





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These are not the ONLY leak detection and repair techniques that are TUR. List any others you are using.

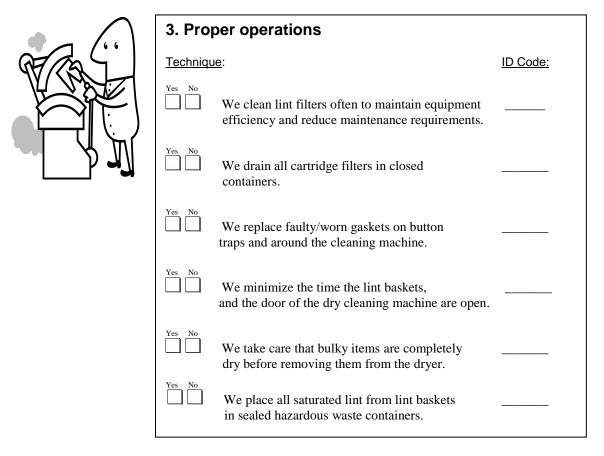
Technique:	ID Code:

Describe the steps you have taken to insure all these efforts remain in place.





Proper operations and equipment maintenance are other ways of preventing waste.



These are not the ONLY proper operations techniques that are TUR. List any

others you are using.		
etholo you alo doing.	Technique:	ID Code:
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Describe the steps you have taken to insure all these efforts remain in place.



The TUR techniques listed above are simple, low cost measures. Efforts which might also be considered include equipment upgrades.



4. Equipment Upgrades		
<u>Techniqu</u>	<u>e</u> :	ID Code:
Yes No	We are (or are considering) replacing a transfer machine with a dry-to-dry machine.	
Yes No	We are (or are considering) replacing cartridge filters with spin disk filters that can be cleaned without opening.	
Yes No	We are (or are considering) adding a refrigerated condenser to the dry cleaning machine.	

These are not the ONLY equipment upgrades that are TUR. List any others you are using or considering.

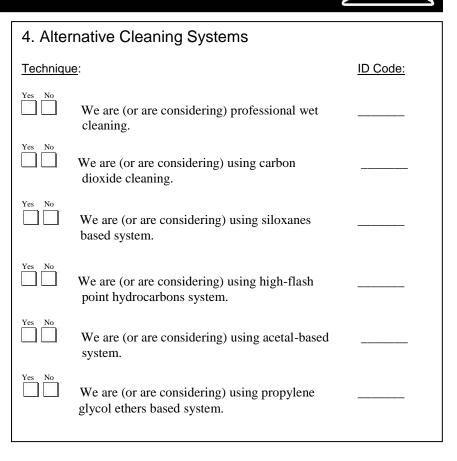
<u>Technique</u> :	ID Code:

Describe the steps you have taken to pursue these upgrades.

While nothing in TURA requires that dry cleaners stop using perchloroethylene, other effective and safer cleaning systems are available. Their feasibility depends on equipment costs, availability of space and other issues.







NOTE: n-propyl bromide is not included in the above list. It is a TURAlisted chemical, like perc, and therefore is not considered a suitable safer alternative.

The chemicals listed above are not the ONLY substitutions for perc. List any others you are using or considering.

<u>Technique</u> :	ID Code:

Describe the steps you have taken to pursue these substitutions.