



METRO Louisville





Strategic Toxic Air Reduction Program Regulation 5.30 Proposed Report and Plan of Action



Presented By
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and Karen Scott



Why STAR 5.30?

- 2002 EPA identified Jefferson County as having the highest potential adverse impacts of toxics of every county in the eight southeastern states
- 2003 West Louisville Air Toxics Study (WLATS) identified monitored risk levels of:
- Greater than 1 in one million cancer risk for 17 chemicals
 - An unsafe level of non-cancer effects for 1 additional chemical
- 2005 APCB adopted the Strategic Toxic Air Reduction (STAR) Program
- Regulation 5.21 calls for toxic emission reductions from Title V and FEDOOP permitted processes
 - Regulation 5.30 calls for toxic emission reductions from non-permitted processes

The Stakeholders

- J. Barry Barker (TARC)
- Russ Barnett (UofL)
- Leslie Barras (River Fields)
- Derek Bland (GLI)
- Gregory Brotzge (KPC)
- Wallace Deener (MDA)
- Carolyn Embry (ALA)
- Mary Rose Evans (Neighborhoods)
- Tom FitzGerald (KRC)
- Chuck Fleischer (JCPS)
- Mike Fothergill (Holiday Cleaners)
- Christopher French (Metro P&D)
- Arnita Gadson (WJCCTF/UofL)
- Sam George (American Commercial Barge Lines)
- Tim Hagerty (GLI)
- Susan Hamilton (Economic Dev Dept)
- Matt Hanka (UofL student)
- Cathy Hinko (MHC)
- Melissa Howell (KCFC)
- Mark Hussung (GE)
- Dr. John Lewis (GLMS)
- Joan Lindop (Sierra Club)
- Jesse Mayes (KYTC)
- Cam Metcalf (UofL)
- Kirsten Morell (UPS)
- Mike Mulheirn (JCPS)
- Anne K. Nash (Highland Cleaners)
- Patrick Peak (Ivy Hill Co.)
- Dionne Reams (UofL student)
- Karen Scott (RAA)
- Barbara Sexton Smith (APCB)
- William Somplatsky-Jarman (PC USA)
- Dr. David Tollerud (UofL)
- Dr. Adewale Troutman (DPHW)
- David Wicks (JCPS)
- Mark Young (Grinstead Group)

The Process

Timeline

- July 2006 Stakeholder Group began meeting
- Steep learning curve
 - Group reviewed the Strategic Toxic Air Reduction Program, background info on toxics and related air quality issues
- Nov 2006 Sub-committee work began
- Health/Risk Committee - determined environmental acceptability
 - Area and Minor Source Committee*
 - Mobile and Non-road Mobile Source Committee*
 - Report and Plan of Action (RAPA) Committee - oversaw documentation of the process and recommendations
- July 2007 Group reached consensus on recommended goals and strategies

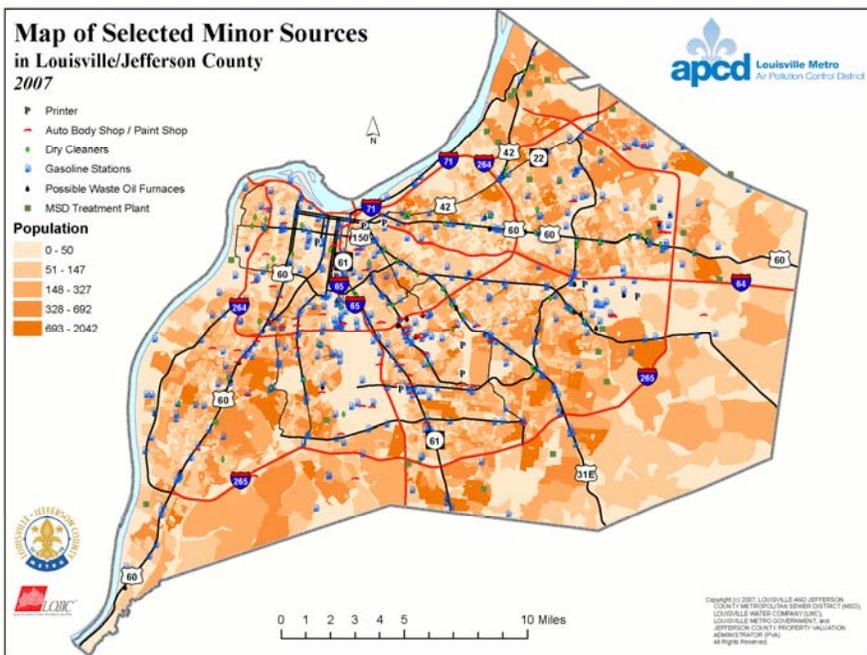
* *Source Committees identified sources of concern and current risk levels and developed emission and exposure reduction strategies*

The Process

Identifying Sources of Concern

Area and Minor Sources

Mobile and Non-road Mobile Sources



Diesel Engines



The Plan of Action

Environmental Acceptability (EA) Goals

- EA Goals continue the concepts of Reg 5.21
 1. Types of risk analyzed:
 - Cancer risk
 - Non-cancer risk
 2. Goals determined for:
 - A single process
 - All processes at a single company or site
 - All processes from multiple companies in an area

The Plan of Action

Environmental Acceptability (EA) Goals

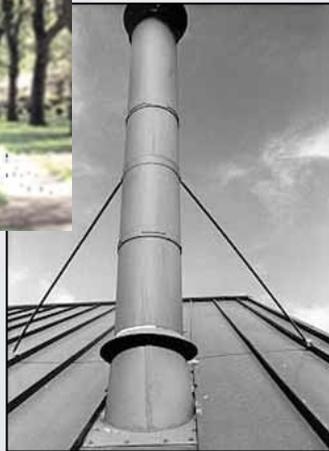
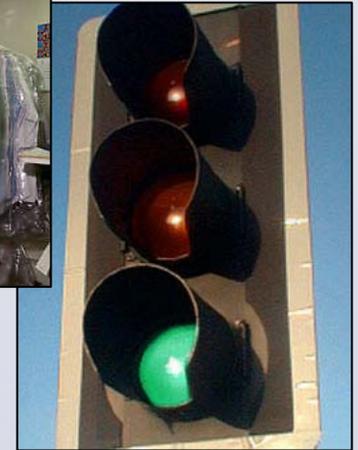
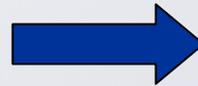
What makes STAR groundbreaking?

With the addition of Regulation 5.30, STAR addresses cumulative cancer and non-cancer risk goals from all sources large and small.

The Plan of Action

Recommended Reduction Strategies

Strategies for
reducing actual
emissions

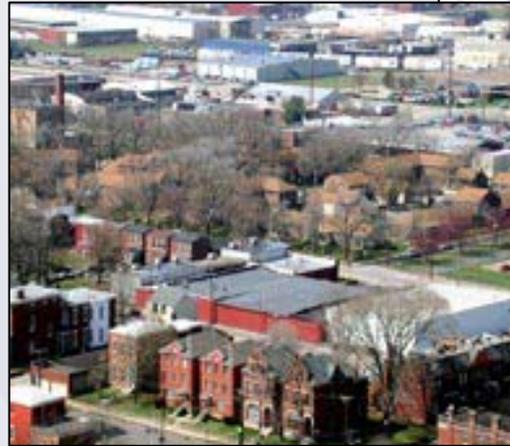


Strategies for
reducing exposure to
emissions

The Plan of Action

Other Recommendations

- Future Information Needs
- Additional time and/or resources necessary
- Long-range land use and transportation planning solutions



Going Forward...

- 35 recommendations
- Continual evaluation
- Next Step
 - Review the Proposed Report and Plan of Action

Strategic Toxic Air Reduction Program
Regulation 5.30
Report and Plan of Action

Document can be found at:

[http://www.louisvilleky.gov/APCD/STAR/
Reg530Report.htm](http://www.louisvilleky.gov/APCD/STAR/Reg530Report.htm)