

# OCAPP Webinar:

## Environmental Compliance & Pollution Prevention Assistance

June 6, 2012 Webinar



# Presenters

- \* Dan Sowry
  - \* Office of Compliance Assistance & Pollution Prevention
- \* Dave Foulkes
  - \* Office of Compliance Assistance & Pollution Prevention



# Today's Outline

- \* What is OCAPP?
- \* OCAPP compliance assistance services
- \* OCAPP roles
- \* What is pollution prevention (P2)?
- \* Case studies (P2 success stories)
- \* OCAPP's P2 services



# What is OCAPP?

- \* Office of Compliance Assistance & Pollution Prevention
- \* Non-regulatory (we're not inspectors!!!)
- \* Free
- \* One-stop shop for assistance



# OCAPP in the District Offices



- Central Ohio Contact
  - Dan Sowry, (614) 728-8575
- Northeast Ohio Contacts
  - Adrienne LaFavre, (330) 963-1250
  - Pam Korenewych, (330) 963-1237
- Northwest Ohio Contact
  - Ron Nabors, (419) 373-3147
- Southwest Ohio Contact
  - Jim Pellegrino, (937) 285-6439
- Southeast Ohio Contact
  - Ralph Witte, (740) 380-5241

## OCAPP Services

**OCAPP does not share information about its customers with inspection or enforcement staff.**

# OCAPP Services

- \* Toll-free hotline: (800) 329-7518
- \* Specialists available from 8:00-5:00 M-F
- \* Assistance with air permit applications
- \* On-site assistance
  - \* compliance assistance (CA)
  - \* pollution prevention (P2) assistance
- \* OCAPP serves as a first stop for businesses seeking information



# OCAPP Services

- \* Workshops & conferences
- \* Develop publications (plain-English)
- \* Maintain on-line recycler lists
- \* Quarterly CA/P2 newsletter
- \* Help develop Web resources  
(Permit Wizard, Answer Place)



# OCAPP Roles

- \* Respond directly to incoming CA/P2 requests.
- \* Provide a one-stop point of contact to help address multimedia CA/P2 needs.
- \* Help to present information in a plain-English format.
- \* Interact extensively with the divisions to get information and coordinate on projects.



# Compliance Assistance Examples



- \* Examples of compliance assistance:
  - \* Hotline call
    - \* Help finding forms, publications, general inquiry questions, etc.
      - \* Follow up by phone and e-mail
  - \* Request for site visit
    - \* Confidential tour of facility and operations
      - \* Follow up with confidential compliance assistance letter

# Compliance Assistance Examples

- \* Response to Notice of Violation (NOV)
  - Work with business and inspector to abate NOV
  - Obtain necessary permits
  - Provide additional assistance



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## OCAPP Accomplishments SFY 11

- \* Helped more than 2,200 businesses with their pollution prevention and compliance needs.
- \* Conducted 223 site visits to help companies with compliance and pollution prevention.
- \* Participated in 41 presentations and training events to help educate Ohio businesses and organizations about P2 and compliance reaching more than 1,400 individuals.



## OCAPP Accomplishments SFY 11

- \* Distributed more than 4,891 publications to external customers.
- \* Provided its newsletter Compliance and Prevention Quarterly to more than 5,200 Ohio businesses.
- \* Developed 25 new publications.
- \* Environmental Stewardship Awards
  - \* Coordinated and recognized two Ohio companies for their commitment to being outstanding stewards of Ohio's environment.

# Encouraging Environmental Excellence (E3) Program

- \* 3 level approach to provide recognition to Ohio businesses
  - \* Bronze Level - significant progress in impact to the environment and/or resource conservation
  - \* Silver Level – good environmental compliance record and have completed environmental stewardship activities
  - \* Gold Level - exceed regulatory compliance obligations and commit to long-term strategies to reduce waste, lower emissions and improve environmental performance

## Bronze Level Benefits

- \* Certificate of recognition signed by the Director;
- \* Listing on the Ohio EPA website;
- \* Program highlights published in the agency's Newsletter; and
- \* Decal with the Ohio E3 logo to display at the applicant's location.

## Silver Level Benefits

- \* E3 flag to hang at the recipient's facility;
- \* Ohio EPA news release touting the entity's environmental accomplishments;
- \* Awards ceremony invitation and possibly a site visit by Ohio EPA director; and
- \* Case study to publicize the recipient's proactive approach to environmental stewardship.

## Gold Level Benefits

- \* Silver Level Benefits;
- \* Opportunity for regulatory and permitting flexibility
  - \* Options potentially including expedited permit review, reporting flexibility, reduced inspection frequency and other options; and
- \* Annual members meeting with Ohio EPA's director

# What Is Pollution Prevention?

- \* Front of pipe
  - \* Preventative strategy/proactive
- \* Process focused
  - \* Optimizes processes/prevents losses
  - \* Losses (wastes) = REGULATION
- \* True reductions
  - \* Real measurable environmental benefit
- \* Foundation for sustainable, lean & green strategies



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First of all, what is P2?

P2 is a Front of PIPE concept and PREVENTATIVE STRATEGY. It's Based on Source Reduction

P2 is PROCESS focused, meaning it looks as using resources more efficiently, optimizing processes and preventing losses

Because of a PROCESS focus, P2 often results in productivity and quality improvements – For that reason P2 is an important component of Business TQM, ISO 9000 and 1400 standards and EMS programs

P2 can yield TRUE SOURCE REDUCTION, which means real measurable environmental benefit and real pollutant reduction

P2 is also the foundation for sustainability and lean/green strategies. You can't do any of these without understanding the concept and doing P2

# What Is Pollution Prevention?

- \* Use as a compliance tool
  - \* Not only can meet, but go beyond
  - \* Problem solving/management strategy
- \* Cost-effective
  - \* Reduces raw materials, value-added system/process



P2 can be used as a compliance tool. Reduced pollution not only means better compliance but can mean going beyond compliance and becoming non-regulated. Less regulated reduces environmental responsibilities and liabilities .

Most importantly, P2 is cost effective. It can yield true savings, reduce raw materials, reduce production costs and creates regulatory savings.

## P2 in Manufacturing

- \* Substitute less toxic materials
- \* Product redesign
- \* Modify equipment/process
- \* Production scheduling
- \* Preventative maintenance
- \* Spill and leak prevention
- \* Energy efficiency



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Substitute for less toxic materials, like eliminating hex-chrome from a process and changing to a non-chrome formulation

Redesign a product or production and equipment processes so that there are less steps and material losses

Production scheduling is important to minimize product or material loss during production changeover and cleaning operations

Preventative maintenance can minimize chemical losses due to leaks and can reduce the potential for a catastrophic loss due to a tank or container failure.

Spill and leak prevention are also important to keep material and product where it belongs and not on the floor or contaminating another process.

Finally, energy efficiency is an equally important component of P2. Motors, pumps, lighting and compressed air can all be used more efficiently to reduce energy consumption. Approximately 8 HP of

electricity is required to generate 1 HP of work using compressed air. This represents an efficiency of only 12 percent. This is why compressed air leak audits can have immediate payback.

# Manufacturing P2



Improved equipment & operator practices



Material substitution  
- powder coating



Equipment/process  
modification- spray  
rinsing



Energy efficiency

# Manufacturing P2

Equipment/process change – Impact example



Transfer Efficiency (TE) Improvement:	Waste Costs @ 30% TE	Waste Costs @ 45% TE	Savings Due to TE Improvement
Cost of waste + filters + labor	\$29,649	\$15,530	\$14,119
Cost of wasted paint	\$73,101	\$38,291	\$34,810
Total cost of waste	\$102,751	\$53,822	\$48,929



Environmental Protection Agency

## P2 Success Stories

- \* Crown Equipment Corp. (New Bremen, OH)
- \* Chrome plating line (“zero” discharge)
  - \* Counter-current rinsing & filtered process baths
  - \* Eliminated treatment costs & 45,350 lbs of sludge
- \* Installed Power Coating Line
  - \* Eliminated large portion of wet painting operations
  - \* 65% wastewater reduction & sludge (200,000 lbs)
  - \* Save \$45,000 in labor, housekeeping & disposal



## P2 Success Stories

### \* Whitaker Surface Systems (Toledo)

#### \* P2 Activities

- \* Counter-current rinsing
- \* Flow restrictors
- \* Modified rinse tank design
- \* Automated spray barrel rinsing system



- \* Reduced water by 7,400 GPD (1.85 million gallons annually) – 15% reduction
- \* Reduced chromium by 420 pounds annually

## P2 Success Stories

- \* GM Powertrain Toledo Plant
  - \* Closed loop machining fluid system
    - \* Utilizes a “flat floor” design
      - \* Old system = 0.84 gallons/unit (Fluid consumption)
      - \* New system = 0.30 gallons/unit (60% improvement)
  - \* “Just Add Water System” (JAWS®)
    - \* Small dispenser cartridges fit into pre-labeled squirt bottles
    - \* The squirt bottles are reused
    - \* Only waste is the small dispenser cartridge



## OCAPP's P2 Services

- \* P2 assistance
  - \* E-mail/phone
  - \* P2 assessments
- \* Online resources
  - \* P2 documents & guidance
  - \* Online training for metal finishing, painting/coating, parts cleaning, green chemistry, sustainability, bio-based materials, cost accounting and more



# P2 Assessments

- \* P2 assessments
  - \* On-site survey to ID cost savings
    - \* Optimize resources, minimize losses & increase productivity
    - \* Focuses on greatest potential waste reductions
    - \* No confidential/proprietary information requested
    - \* 2-4 hours
  - \* Assessment Report
    - \* Recommendations w/ case study and vendor info
    - \* [www.epa.ohio.gov/ocapp/p2/onsiteasst.aspx](http://www.epa.ohio.gov/ocapp/p2/onsiteasst.aspx)



## Where Can I Get More Help?

- \* Office of Compliance Assistance & Pollution Prevention
- \* [www.epa.ohio.gov/ocapp](http://www.epa.ohio.gov/ocapp) (800) 329-7518

- \* Dan Sowry
- \* [dan.sowry@epa.ohio.gov](mailto:dan.sowry@epa.ohio.gov) (614) 728-8575

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