# GREAT LAKES BINATIONAL TOXICS STRATEGY STAKEHOLDER FORUM

Coke Plants – Major BaP Sources

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COKE OVEN RULES Part 63 – Subpart L

Promulgated – October 1993

 Sources Covered – Charging, Doors, Lids, Offtake Systems, Collecting Mains, Non-recovery Batteries

# COKE OVEN RULE CHANGES

Residual Risk Rule – Promulgated April 2005, Compliance by July 2005 (Tightening of 1993 rules) Subpart CCCCC – Promulgated April 2003, Compliance by April 2006 (More emission points controlled: Pushing, Quenching, Combustion Stack)

## NUMBER OF OPERATING COKE PLANTS

Total: 9 plants

By-product: 7 plants

Non-recovery: 2 plants

## PLANTS CLOSE TO GREAT LAKES

EES Coke – River Rouge, MI (Lake Erie) U.S. Steel – Gary, IN (Lake Michigan) Mittal Steel – Burns Harbor, IN (Lake) Michigan) Indiana Harbor Coke – East Chicago, IN (Lake Michigan)\* Algoma Steel – Sault Ste. Marie, ONT (Lake Huron and Lake Superior)

#### **RULE IMPLEMENTATION**

- Residual Risk Rule (MACT plants only) Three plants in Region 5: State compliance inspections, with one possible issue regarding door emissions on non-recovery plant
- Subpart CCCCC
   Limited inspections by State agencies, follow-up needed

# SUBPART CCCCC ISSUE

Some coke plants feel Subpart CCCCC not applicable

Emission of any single hazardous air pollutant is less than 10 tons per year, and of any combination of pollutants is less than 25 tons per year

# US/CANADA JOINT EFFORT ALGOMA STEEL

Issue – Numerous complaints from U.S. Tribes and residents in Sault Ste. Marie, MI: Heavy black and red smoke from Algoma Steel (beginning in 1997)

## ALGOMA STEEL PROJECT SUMMARY

Consultation group formed
Canada working with Algoma to reduce plant emissions
Ambient air monitoring network implemented (particulate matter, speciated particulate matter, VOCs, PaHs) – Monitors in both U.S. and Canada
Report of emission reductions and monitoring results in progress

#### ALGOMA MONITORING DATA BaP

U.S. EPA Reference concentration (1in-1 million excess lifetime cancer risk): 0.9 ng/m3

Lake Superior State University (U.S. side – approx 2 miles): 0.1 ng/m3 (2004-2006 avg)

Canada side: 0.5 ng/m3; 1.8 ng/m3 (two sites, 2001-2003 avg)