

## **Walter Koucky - ERG - Cement Plant Experience**

**Project Title:** Nox Control Evaluation for Texas Cement Kilns  
**Contract Number:** TCEQ 582-4-65589  
**Client Project Manager:** Karen Hill, Texas Commission for Environmental Quality  
(512 239-2968)  
**Project Period:** July 2005 - Ongoing

Mr. Koucky is managing a project to evaluate NOx controls for three cement plants in the Dallas Ft. Worth metropolitan area. This project looks at the chemical composition of feed materials and control technologies. The interactions between feed composition and control technologies will be evaluated. Retrofit of kilns to more efficient production methods will also be evaluated.

**Project Title:** Retrofit of Cement Kilns to Achieve Lower Greenhouse Gas Emissions and Higher Efficiency  
**Contract Number:** GS-10F-0036K  
**Client Project Manager:** Lisa Hanle, EPA Clean Markets Division  
(202-343-9434)  
**Project Period:** May 2004 - March 2005

Mr. Koucky worked with USEPA and the Portland Cement Association (PCA) to look at the potential benefits from Greenhouse Gas emissions reductions and improvements in energy efficiency that would result from retrofit of wet process cement plants to dry process with preheat and precalcination. In addition, retrofit of older generation long dry kiln process plants to dry process with preheat and precalcination was evaluated. PCA supplied information on approximately the most recent 10 years worth of modifications. This information was processed statistically to protect proprietary information on specific plants. Emissions and emissions benefits were modeled.

**Project Title:** Multiple Risk Assessment  
**Contract Number:** 68-W4-0005  
**Client Project Manager:** John Smith, EPA Region 7  
(913)551-7845  
**Project Period:** April 1994-October 1997

Mr. Koucky supported EPA Region 7 in issuing the first BIF permit issued under EPA's Combustion Policy requiring multi-pathway risk assessments to establish emissions limits based on hazardous waste feed rates. This permit was issued to Ash Grove Cement in Chanute, Kansas. This project involved additional work beyond the risk assessment and establishing feed/emissions limits. This project also involved working with other cement manufactures in setting up their risk assessments and involved communicating the results of the risk assessment to the public.

**Project Title:** Risk Assessments at Region 7 Combustion Facilities  
**Contract Number:** 68-W4-0005  
**Client Project Manager:** Ken Hertowski, EPA Region 7  
(913)551-7631  
**Project Period:** August 1996 - September 1997

Mr. Koucky worked for approximately 5 years in support of Region 7 RCRA permitting and enforcement of hazardous waste combustion facilities. Mr. Koucky performed and reviewed risk assessments, performed emissions calculations, supported the region in establishing relationships between feed rates, emissions and community risk and in establishing waste feed limits and cut-offs. This work also involved meeting with and assisting cement manufactures in their efforts to comply with EPA's Combustion Policy and establishing trial burn requirements and reviewing trial burn data. Region 7 has several cement kilns burning hazardous waste. This work assignment included the following cement manufacturing plants:

Lone Star Industries, Cape Girardeau, Missouri  
Continental Cement, Hannibal, Missouri  
Holnam, Clarksville, Missouri  
LaFarge/Systec, Fredonia, Kansas  
Heartland, Independence, Kansas

**Project Title:** Standards for the Management of Cement Kiln Dust  
**Client Project Manager:** Bill Shoenborn, EPA OSW HQ

(703) 308-8483

**Project Period:** September 1996 - March 1998

Mr. Koucky provided quality assurance and expert review for EPA CKD Rule proposal. Mr. Koucky evaluated CKD management practices, emissions control techniques, emissions models and control costs for CKD management. Mr. Koucky reviewed the products of SAIC's subcontractors and provided expert review to EPA. Mr. Koucky wrote a chapter of the technical support document on CKD management.

**Project Title:** Peer Review of Engineering, Risk, and Economic Aspects of Proposed Rule for HWC Combustors

**Contract Number:** 68-W4-0030, WA No. 119

**Client Project Manager:** Frederick Chanania, EPA OSW HQ  
Phone (703) 308-8420

**Project Period:** October 1995 to July 1996

**Completion Date:** July 1, 1996

Mr. Koucky assisted in SAIC's effort to support the **Hazardous Waste Combustor (HWC)** MACT rulemaking. Mr. Koucky assisted in drafting responses to comments on issues relating to risk assessment and specific issues relating to hazardous waste incinerators and cement kilns