

Factual Background

6. Radiac owns and operates a bonded abrasives production facility at 1015 South College Avenue, Salem, Illinois (the Salem Facility). The Salem Facility operates several kilns and ovens which utilize naphthalene and other polycyclic aromatic hydrocarbons (PAHs) as raw materials.
7. EPA calculated ambient concentrations of naphthalene and PAHs in the community surrounding the Salem Facility, using the atmospheric dispersion model AERMOD and Illinois Annual Emissions Report information submitted to the Illinois Environmental Protection Agency by Radiac.
8. The predicted long-term average naphthalene ambient-air concentrations caused by emissions released from the Salem Facility present an elevated cancer risk (based on the California Environmental Protection Agency cancer potency value); and an elevated noncancer health risk (based on EPA's Integrated Risk Information System inhalation unit risk) in the surrounding community.

Violations

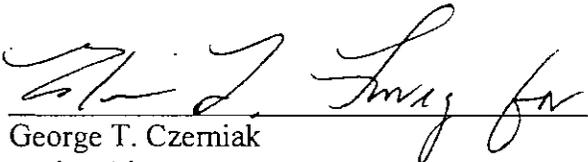
9. Radiac's emissions of naphthalene and other PAHs from the Salem Facility, either alone or in combination with emissions from other sources, cause or tend to cause the presence of contaminants in the atmosphere of sufficient quantities, characteristics, and duration as to be injurious to human health, as prohibited by 35 Ill. Admin. Code § 201.141.

Environmental Impact of Violations

Naphthalene and other PAHs are listed Hazardous Air Pollutants under the CAA, and are considered possible human carcinogens. Acute (short-term) exposure of humans to naphthalene and other PAHs by inhalation, ingestion, and dermal contact are associated with hemolytic anemia, damage to the liver, and neurological damage. Cataracts have also been reported in workers acutely exposed to naphthalene by inhalation and ingestion. Chronic (long-term) exposure of workers and rodents to naphthalene and other PAHs have been reported to cause cataracts and damage to the retina.

8/16/13

Date



George T. Czerniak
Acting Director
Air and Radiation Division

Standard bcc's: Official File Copy w/Attachment(s)
Originating Organization Reading File w/Attachment(s)

Other bcc's: Eaton Weiler, C-14J
C:\Desktop\Radiac\Radiac114.docx

CERTIFICATE OF MAILING

I, Cedric Jones, certify that I sent a Notice of Violation, No. EPA-5-13-IL-41, by UPS

Overnight, signature required, to:

Kerry Christofanelli
President and CEO
Radiac Abrasives, Inc.
1015 South College Avenue
Salem, Illinois 62881

I also certify that I sent a copy of the Request to Provide Information Pursuant to the

Clean Air Act by First-Class Mail to:

Ray Pilapil, Manager
Bureau of Air, Compliance and Enforcement Section
Illinois Environmental Protection Agency
P.O. Box 19506
Springfield, IL 62794

On the 16th day of AUGUST 2013.


Cedric Jones
Administrative Program Assistant
AECAB, Planning and Administration Section

UPS TRACKING NUMBER

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