Sunnyside Unified School District
Governing Board Meeting
March 11, 2015

Materion Ceramics Permit Revision Update
Adding new system to immediately detect particulate emissions
Adding new requirements related to the particulate detection system
PDEQ has had no enforcement or compliance issues with Materion during this permit period
Particulate Detection System

- Materion has evaluated the use of the TRIBO particulate detection system manufactured by Auburn.
- Has been installed in Materion’s stack since 2010.
- Detector functions by processing and analyzing electrical currents generated when particles pass by sensors. Measured in pico amps.
- Will not measure BeO but will measure particulates (such as BeO).
- Detector used to monitor performance of air pollution controls.
Diagram of Pollution Control Equipment and location of Auburn Particle Detector Probes

Note - Not to scale
Changes to Materion Air Quality Permit

- Require particulate detection system to be operating when manufacturing is taking place
- Require continuous record keeping of system
- Require notification of PDEQ within 24 hours of a reading above the alert level
- Alert (alarm) level established at 100 pico amps. Normal operating levels are approximately 10 pico amps.
Public Comments

- A 30-day public notice of proposed permit revision was placed in newspapers and on PDEQ’s website
- Public Comment Period ran from January 5, 2015 through February 5, 2015
- Open House at Sunnyside High School January 22, 2015
- News release was issued to media which generated news coverage
- Communicated with BOS, BOH, SUSD School Board, and other interested parties
Public Comments

- Open House attended by 25 people
- PDEQ has received approximately 16 comments
- Several comments opposed the facility
- Majority of comments supported the permit revisions but requested the ambient air monitoring be continued
- A few comments supported the facility and permit changes
Since 2007, nearly 3,000 samples have been collected

Only one sample had detectable levels of beryllium not related to Materion operations

July 22, 2009, dust storm from Pinal County brought in soil with higher Be. Reported to BOH, SUSD, and BOS in September 2009

Current monitoring system takes over 90 days to get results from the laboratory
Materion has agreed to fund a six month extension of the air monitoring study agreement.

SUSD staff has agreed to continue to collect the filters for the next six months.

PDEQ to issue permit revisions and Response to Comments in the next two weeks.

PDEQ considers particulate detector an improvement in protecting public health.

PDEQ to conduct inspections and evaluate performance of the particulate detector system. Provide information over the next six months to the SUSD School Board.
Questions?

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