



Sunnyside Unified School District Governing Board Meeting March 11, 2015

Materion Ceramics Permit Revision Update

Materion Ceramics Permit Revision

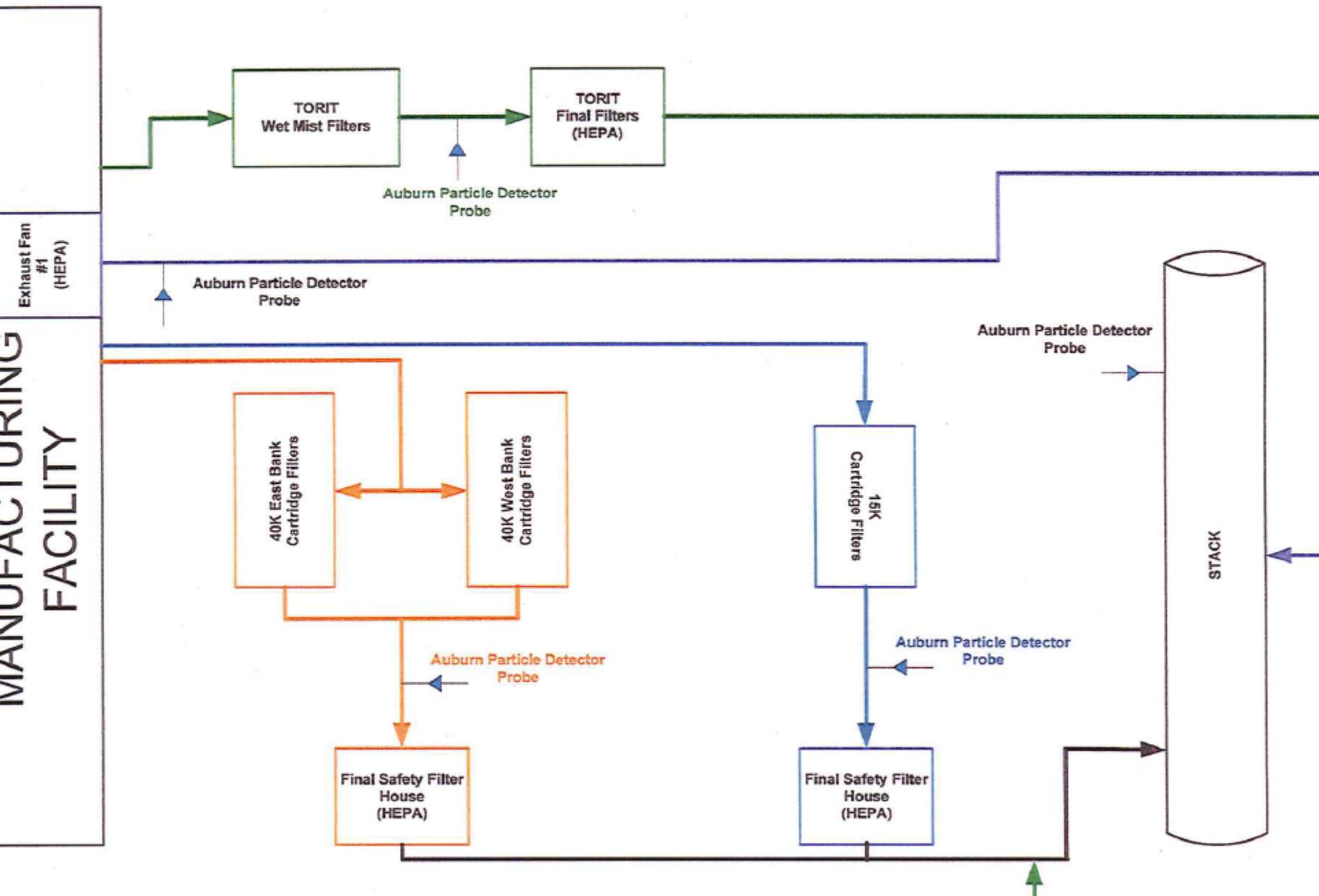
- ▶ Adding new system to immediately detect particulate emissions
- ▶ Adding new requirements related to the particulate detection system
- ▶ PDEQ has had no enforcement or compliance issues with Materion during this permit period

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

Beryllium

Air Monitoring Study

- ▶ 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

Next Steps

- ▶ 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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