



# Pima County Board of Health December 17, 2014

Materion Permit Revision Update

# Particulate Detection System

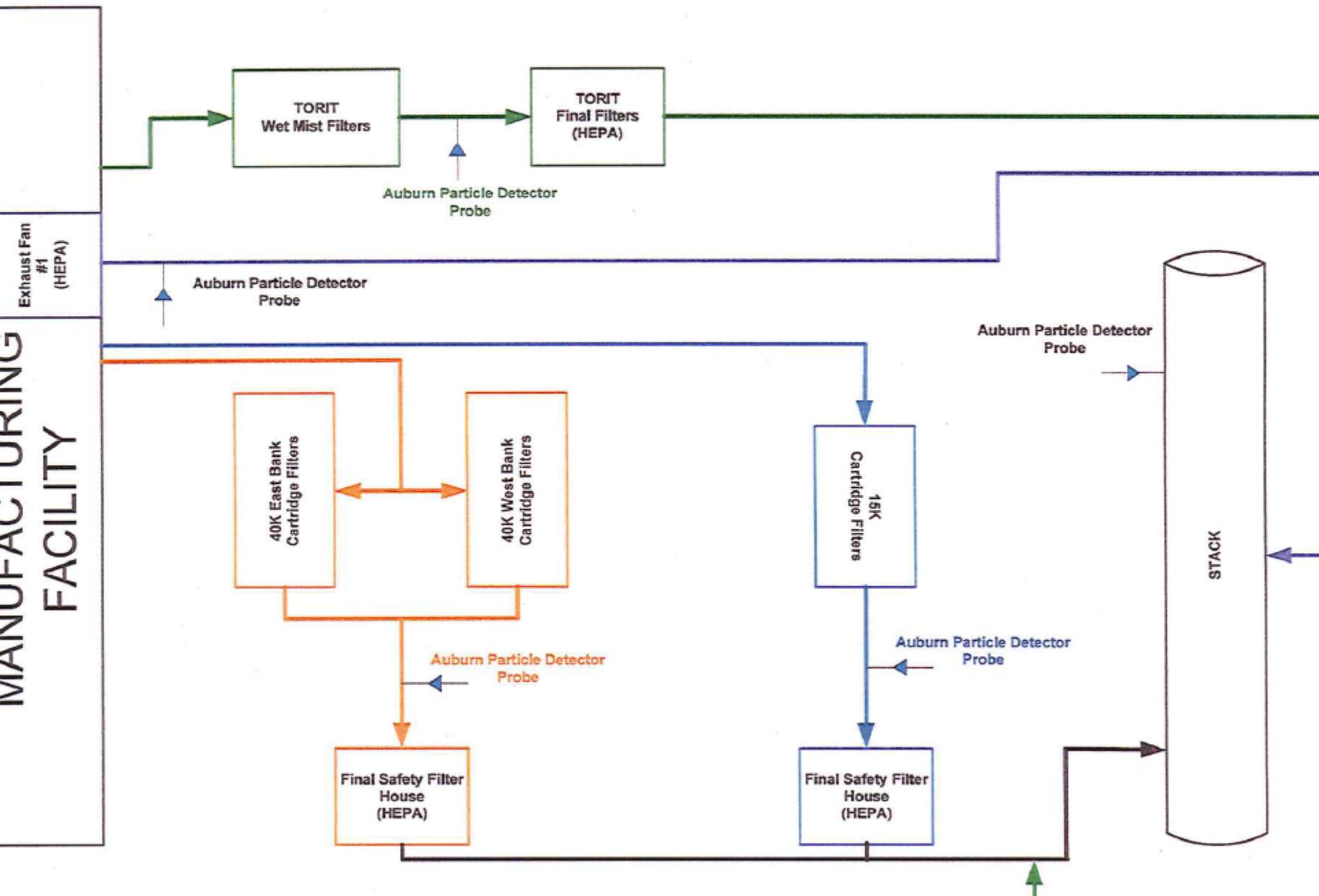
- ▶ Materion has evaluated the use of the TRIBO particulate detection system manufactured by Auburn
- ▶ Has been installed in Materion's stack since 2010
- ▶ Detector functions by processing and analyzing electrical currents generated when particles pass by sensors. Measured in pico amps
- ▶ Will not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

# Changes to 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. Testing done by Auburn (Mfg.) and Materion shows 1 gram of talc recorded 4,000 pico amps

Diagram of Pollution Control Equipment and location of Auburn Particle Detector Probes

Note - Not to scale



# Next Steps

- ▶ Public Comment Period to run from January 5, 2015 through February 5, 2015
- ▶ Open House at Sunnyside High School January 22, 2015
- ▶ Communicate with BOS, BOH, SUSD School Board, and other interested parties
- ▶ Will have 30-day public notice in newspapers and will place documents on PDEQ website
- ▶ Tentatively scheduled to cease ambient monitoring at the end of February 2015