

U.S. Filter Westates
Carbon Reactivation Furnace (RF-2)
Performance Demonstration Test
Parker, Arizona

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Test Manager's Log

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Planned Testing

Single Test Condition, 3 Runs

Process Sampling:

- Carbon Feed
- Makeup Water
- Caustic
- Scrubber Blowdown
- POTW Discharge

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Stack Gas Sampling:

- M29 (Multi-metals)
 - M0061 (Hexavalent chromium)
 - M26A (Particulate, HCl, Cl₂)
 - M0010-SV (Semivolatiles, Organochlorine Pest)
 - M0010-P (PCBs, PAHs)
 - M0010-TOE (TCO/GRAV)
 - M0023A- (PCDD/PCDF)
 - M0030 (Volatile organics)
 - M0040 (Total volatiles)
 - M5/PSD (Particle Size Distribution)
- CEMS for THC, CO, O₂

27-March-2006

Arrived 07:50

Held pre-test meetings.

Determined that maximum Hearth #5 temperature would be demonstrated at 1650F, and that a supplemental test for minimum temperature would be conducted by Westates outside of formal PDT window. Prepared CAIR to address issues.

(3)

Based on Westlake's concern that City water can change in quality significantly over time, it was decided to collect a makeup water sample at the beginning of each run rather than only once for the test.

Stack gas sampling to take place at multiple levels:

Level #1. M0041, M0030, M0040, CEMS

Level #2. M09, M06A, M0023A, M0010-P,
M0010-SV, M0010-TDE, MS/PSD

All stack sampling and spiking set up and ready.

Departed 18:20.

28-March-2006

Arrived 06:50 Light Rain

Started spiking Perc/MCB 07:30

Started spiking Organic Surrogate Mix + metals

07:50

* Plant shutdown 07:56

Apparently over-amp of ID Fan.

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Plant recovered quickly.

Restarted all spiking 08:59.

* Start Run #1 12:10 28-MAR-2006

Note: M0040 used glass wool plug to keep out PM/moisture droplets.

* Finish Run #1 16:44 28-MAR-2006

Departed 19:30

29-March-2006

Arrived 08:00

Spiking started 08:58

Noted that Run #1 stack gas flows measured by AirTech were ~ 11,500 acfm ~ 9400 scfm.

Plant monitor indicated much less. Suspect problem with plant monitor. Discussed issue with all parties and agreed to use AirTech measurements to establish stack gas flow limits. Westates to investigate and correct stack gas flow measurement problem.

* Start Run #2 11:15 29-MAR-2006

(5)

Note: Broke probe liner on D/F train when moving to last point on 1st half traverse. Shot down sample pump right away. All was observed by EPA/CRIT oversight personnel. Decision made to recover both pieces of broken probe liner and replace liner and continue sampling. Will combine new liner recovery into sample.

Restarted repaired D/F train 14:14. Will extend overall run time.

Note: Hearth #2 access door was opened to allow extra air to enter system to maximize combustion gas flow (minimize) residence time in after burner). All parties were aware and agreed to approach.

* Finished Run #2 17:00 28-MAR-2006
Departed 19:00

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30-March-2006

Arrived 07:50

Started all spiking 08:50

Stopped all spiking 08:58. Noted weeping of spike material from weld on nipple at entrance to furnace.

Repaired nipple and restarted spiking 10:13.

* Start Run #3 11:50 30-MAR-2006

* Hold all sampling 12:39 - Organic surrogate mixture spike not flowing properly. Continue all other spiking.

* Clog in spiking system cleared and organic surrogate mixture spiking resumed 14:43.

* Resume all sampling 15:30 30-MAR-2006.

* Finish Run #3 19:16 30-March-2006

Note: Sampling crew has not yet collected PSD sample. Will call end of run 19:16, since PSD not related to other samples. PSD sampling complete 19:59. Kept process conditions constant until PSD finished.
- END -

On-Site Project Personnel

Tony Eicher - Test Manager (Focus)
Teri White - Sample Coordinator (Focus)
Drew Bolyard - Plant Manager (Westates)
Mark McCoe - Ops Manager (Westates)
Deborah Foster - Sampling Assistance (Westates)
Karl Muninger - Process Assistance (Chavond-Barry)

EPA Observers:

Karen Scheeverman
Stacy Braye
Steve Arman
Mary Blevins
Bob Fitzgerald
Mike Sviizzero

CRIT Representative: Hector Doran

Arcadis Observers (for CRIT):

Marty Jones
Chase McLaughlin

Split Samples w/ Kathy Baylor (EPA).