Saturday, April 11, 2020 (Day before Easter) during Coronavirus Pandemic

Sunny 65 Degrees, Winds from South

Good day to implode a 96 year old smoke stack

Image captured from: https://www.youtube.com/watch?v=UzkFYVsNRFE&feature=youtu.be
Crawford Power Generating Station

- Former Coal-fired Power Plant;
- Operated 1924 -2012;
- Property in IEPA SRP (Site Remediation Program)
  - Metals, PAH, PCB, others;
- Removal Program Neighborhood Site Assessment in 2012
  - Nothing directly attributable to plant
Crawford Power Generating Station

- Current Owner HILCO developing into 1,000,000+ square foot warehouse space (Target distribution center);
- Demolition and re-development overseen by City of Chicago.
- Original Demo planned for Feb 2020:
  - Plan to wet landing area, allowed to freeze = limit dust;
  - Have Chicago FD on site for fugitive dust suppression;
  - Plan approved by Dept. of Buildings;
  - Asbestos from stack remediated;
- Original demolition contractor let go;
- New contractor assures City it will implement plan.
https://youtu.be/UzkFYVsNRFE
Fallout

- Department of Buildings & Public Health
  - On-site, issued stop-work order;
  - CDPH scrambled and grabbed several crude “wipe” samples using paper towels from car windshields in neighborhood and other areas off-site.
April 13, 2020

- CDPH asks for air monitoring support from EPA:
  - DustTraks & Viper;
  - Technical Support where needed.
- Maguire on primary
  - Mendoza facilitated support through existing contacts at CDPH.
- But wait, it’s Coronavirus Lockdown....
  What do we do???
Coronavirus Response

• Follow recent framework document to respond:
  – Series of questions for EPA responder to answer:
    • Work with Section/Branch Chiefs to answer and get go-ahead
  – Series of questions and questionnaire for contractor to answer/fill out
    • Try to be specific and provide guidance on COVID-19 protocols for contractors to follow in email.
      – May need extra vehicles;
      – May need less on-site personnel;
      – Require personnel that can troubleshoot instruments without guidance:
        » DustTrak/Viper/Power issues – for example.
Coronavirus Response

• Initial response to scene:
  – Needed access to locations both on and off-site to place instruments, face to face necessary:
    • Wear PPE
      – Masks
      – Gloves
      – Likely inevitable initially, but plan to limit face to face interactions after first connection
        » Asked and received keys/codes for access
        » Establish protocols for on and off-site security
Coronavirus Response

• Considerations:
  – Food
    • Takeout/Drive thru open mostly (location specific);
    • Bring from home if possible.
  – Technology
    • Viper – issues with power, made adjustments (generators)
    • Laptop, phone, mifi.
    – We know the drill, but some good newer options:
      » MS Skype, Teams, OneDrive
    – Dashboard – link through response.epa.gov
Coronavirus Response

• Considerations:
  – Other facilities
    • Don’t assume you’ll be able to find restrooms or places to wash hands easily, contractors too...
    • Willowbrook Warehouse is 15 minutes from site:
      – Assumed I could use it no problem...
      – Process involved Branch Chief’s clearance through regional management.
        » Access is easy for equipment pickup drop off;
        » Not necessarily for other reasons.
Back to Crawford...

- CDPH collected soil samples near fall zone:
  - Lead (3500 ppm) and arsenic (170 ppm) well above Removal Management Levels;
  - Low level PCBs <1 ppm;
  - Low level PAHs;
  - Chrysotile asbestos found in 1 sample at 1-2%.

- CDPH amended request to add air sampling at the perimeter;
  - Through 4/23/2020
    - No asbestos fibers above OSHA PEL of 0.1 fibers/cc;
    - All metals either not detected above reporting limit or below Regional Screening Levels;
    - PCB results still pending.
Back to Crawford...

- **Particulate Monitoring**
  - Action level set at the National Ambient Air Quality Standard for general public health of 150 μg/m³ (0.150 mg/m³).
    - Actionable result if exceedance sustained for 5 minutes;
    - To date no site-related sustained exceedances.

- **Continued support**
  - CDPH has received bids to take over monitoring and sampling:
    - Hope to transition soon.

- **HILCO has resumed demolition clearing operations**
  - Demolition of remaining buildings may begin May 1st
Data Dashboard
VIPER

VIPER: DEPLOYMENT MANAGER

R05 Crawford Power Plant Demo Deployment
All Times Central, DST Observed
4996-16: R05 Crawford Plant Demo

Description: 6 DustTraks, 3 perimeter air monitoring, 3 residential air monitoring
Location: Chicago, IL

(.205) DustTrak
Connection: OK

Latest Readings:

PM1: 0.009 mg/m3
PM2.5: 0.01 mg/m3
RESP: 0.01 mg/m3
PM10: 0.01 mg/m3
Total: 0.01 mg/m3
PM1 TWA: 0.014 twa
PM2.5 TWA: 0.014 twa
RESP TWA: 0.014 twa
PM10 TWA: 0.014 twa
Total TWA: 0.014 twa

Latest Update: 4/28/2020 5:17:46 PM

Welcome maguire.andrew@epa.gov [ Log Out ]
### Daily Summaries

<table>
<thead>
<tr>
<th>Location</th>
<th>Duration (days:hours:minutes)</th>
<th>PM 2.5 8-Hr TWA</th>
<th>PM 2.5 STEL (Max)</th>
<th>PM 2.5 Daily Max (Instantaneous)</th>
<th>PM 10 8-Hr TWA</th>
<th>PM 10 STEL (Max)</th>
<th>PM 10 Daily Max (Instantaneous)</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>East Perimeter</td>
<td>00:11:23</td>
<td>0.002</td>
<td>0.010</td>
<td>0.025</td>
<td>0.003</td>
<td>0.014</td>
<td>0.030</td>
<td>mg/m3</td>
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<tr>
<td>North Perimeter</td>
<td>00:11:49</td>
<td>0.013</td>
<td>0.032</td>
<td>0.114</td>
<td>0.019</td>
<td>0.065</td>
<td>0.217</td>
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<tr>
<td>South Perimeter</td>
<td>00:12:32</td>
<td>0.019</td>
<td>0.029</td>
<td>0.197</td>
<td>0.030</td>
<td>0.052</td>
<td>0.230</td>
<td>mg/m3</td>
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<tr>
<td>West Perimeter</td>
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<td>0.052</td>
<td>0.377</td>
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<td>0.086</td>
<td>0.541</td>
<td>mg/m3</td>
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<tr>
<td>Firehouse 109 (Northeast-Offsite)</td>
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<td>0.019</td>
<td>0.025</td>
<td>0.011</td>
<td>0.020</td>
<td>0.026</td>
<td>mg/m3</td>
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<td>0.050</td>
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<td>0.021</td>
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<td>mg/m3</td>
</tr>
<tr>
<td>Firehouse 38 (North-Offsite)</td>
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<td>0.025</td>
<td>0.031</td>
<td>0.012</td>
<td>0.027</td>
<td>0.036</td>
<td>mg/m3</td>
</tr>
</tbody>
</table>

**Notes:**
- mg/m3 = milligrams per cubic meter
- NA = Not Applicable
- STEL = Short-term exposure limit (15-minute duration)
- TWA = Time-weighted average

Weather was cloudy with afternoon showers. Temperatures were in the low 60s with winds from the south at 15-20 mph.

Because this is a public health concern, particulate action levels are based on the National Ambient Air Quality Standard (NAAQS) value of 150 μg/m3 (0.150 mg/m3) for PM10. As a result, during real-time monitoring, exceedances of the total dust action level of 150 μg/m3 (sustained for 5 minutes) will serve as indicators of excessive off-site migration of particulates. On 4/27/2020, no sustained exceedances above the NAAQS were recorded.
Sources of Information

EPA Neighborhood Site (General Info)
https://www.epa.gov/il/environmental-issues-chicagos-little-village-pilsen-neighborhoods

Response.epa.gov Site (Data, Photos, POLREPS, Dashboard)
response.epa.gov/CrawfordPlantDemo

City of Chicago Site (Data, Local Info)
Questions?