

**DEPARTMENT OF TRANSPORTATION  
AND ENVIRONMENTAL SERVICES**  
**OFFICE OF ENVIRONMENTAL QUALITY**

**CITY/MIRANT SETTLEMENT AGREEMENT**

**PHASE I PROJECTS**

Council Legislative Session  
November 10, 2009



***City of Alexandria***

ECO-CITY  ALEXANDRIA

# CITY/ MIRANT SETTLEMENT AGREEMENT

- Council authorized Settlement/Agreement with Mirant on July 1, 2008
- Agreement allowed Mirant to proceed with the \$35 million stack-merge project **in addition to** its spending \$34 million under this Agreement to install:
  - Fugitive dust emissions controls (Phase I, \$2 million)
  - Stack PM2.5 emissions controls (Phase II, \$32 million)



**City of Alexandria**



# PHASE I PROJECTS – FUGITIVE DUST EMISSIONS CONTROL

- \$2 million budget
- Engineering study by WorleyParsons – Out of 27 options considered, five were recommended by WP and agreed to by Staff and Mirant, and endorsed by MCMG:
  - Installation of fog dust suppression for ash loading
  - Purchase of a street sweeper
  - Installation of 30-foot high windscreens for the coal pile
  - Installation of conveyor drip pans
  - Provide partial funding for installation of the new ash loader



# City Outreach Efforts on Windscreen

- Consulted with Staff from P&Z and City Attorney's Office
- Sent 700 letters to homeowners of properties located adjacent to Mirant PRGS
- Developed web page dedicated solely to the proposed windscreen
- Informed Presidents of neighboring homeowner associations and civic associations and offered to come to their meetings to answer questions
- Held two MCMG meetings (June 16 and June 29) and MCMG hosted an open house on October 8.
- Staff continues to be available to answer questions
- In general, staff received positive feedback from residents on the proposed windscreen



# Staff Recommendations

- That City Council:
  - Endorse MCMG recommendations (Per October 8<sup>th</sup> MCMG Motion)
  - Authorize City staff to work with Mirant to implement the five fugitive dust control measures mentioned earlier at Mirant PRGS
- Phase I projects are an integral part of the City/Mirant Settlement/Agreement and are essential to protect the health of residents living nearby the power plant



# Phase I – Fog Type Dust Suppression at Fly Ash Loading .....What Is It?



# Phase I – Street Sweeper

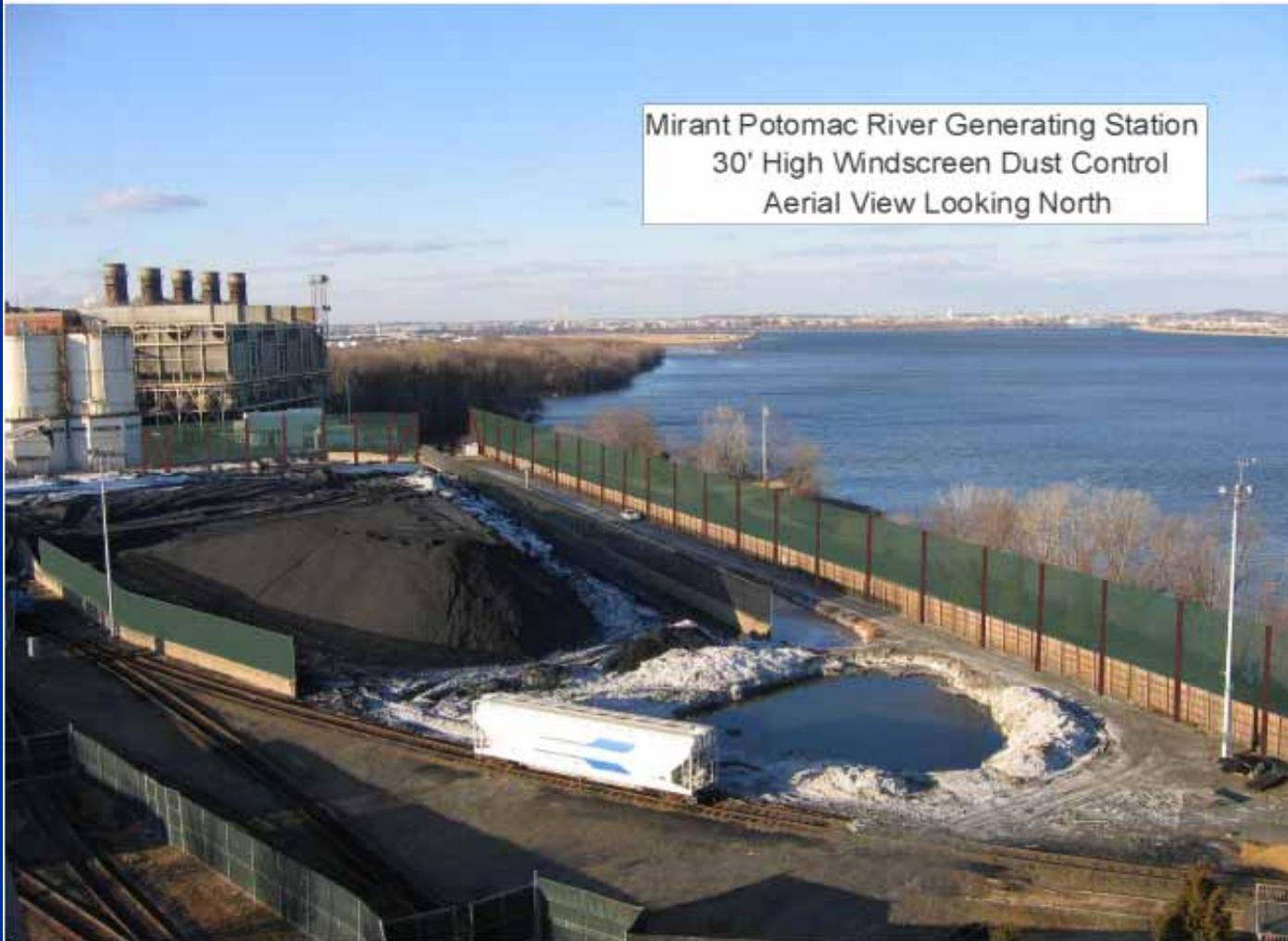
## What Is It?

Typical Regenerative Air Type Street Sweeper



# Phase I – Windscreen

## What Is It?



Mirant Potomac River Generating Station  
30' High Windscreen Dust Control  
Aerial View Looking North

# Phase I – Conveyor Belt Drip Pans

## What Is It?



### Coal Belt Conveyors

- ▶ Addition of Drip Pans to Four (4) Conveyors C1, C2, G1 and G2



# Phase I – New Fly Ash Loader What Is It?

New Fly Ash Loader

