

## Sheplak, Scott

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From: Sheplak, Scott  
Sent: Wednesday, April 30, 2003 3:58 PM  
To: 'Rob Kalch'  
Subject: RE: TEC, Gannon *City - ground correspondence*

1) Delivered Coal by Truck instead of Railcar. TECO on October 25, 2002, submitted their request for this "insignificant activity". The claim was certified by a P.E. and signed by their R.O. On November 8th we met with TECO, their consultant Tom Davis, P.E., ECT and EPCHC to discuss various permitting issues including this one. There is no change in the coal throughput rate at the station. The emissions units description in Subsection E. will need to be updated. No further action was necessary by the Department.

2) Slag Handling Activities. On July 1, 2002, TECO notified the Department and EPCHC to temporarily store and handle slag at the Gannon Station. Slag is a material with glass like properties. Per the Department's request, TECO submitted calculations certified by a P.E. and signed by their R.O. in order to consider their request as an "insignificant activity". EPCHC commented on their request. During our November 8th meeting we discussed their request; EPCHC had a different professional opinion on the emission factors selected. TECO addressed EPCHC's comments on November 25th. This activity will be added to the permit's Appendix I-1. No further action was necessary by the Department.

-----Original Message-----

From: Rob Kalch [mailto:kalch@epchc.org]  
Sent: Tuesday, April 29, 2003 12:09 PM  
To: Sheplak, Scott  
Subject: Fwd: TEC, Gannon

Mr. Sheplak,

I just wanted to follow up with you on the attached requests.

Sincerely,  
Rob Kalch  
EPCHC

-file-  
general correspondence  
Bayside

FROM: Scott M. Sheplak, P.E. *sm*  
DATE: March 31, 2003  
  
RE: Tampa Electric Company (TECO) – Gannon/Bayside Visit

On March 28, I visited the subject power plant to look at the old and the new electrical power plant generation technology. The new technology was awesome!

- Contacts were:
- Patrick Shell, Environmental Affairs
  - Dru Latchman, Environmental Affairs
  - Elena Vance, Plant Engineer Contact

The day was overcast. I took pictures of the old Gannon Power Plant. The Gannon plant commenced operation in the early 1960's. The Gannon Plant is coal fired primarily. Picture #1 is a view of the old plant looking west from the Bayside plant at approximately a 100 feet elevation. Picture #4 is a picture of the old control room. By looking at the picture you can see that old control rooms had lots of manual knobs, switches, magnehelic gauges, circular charts and strip charts, etc.

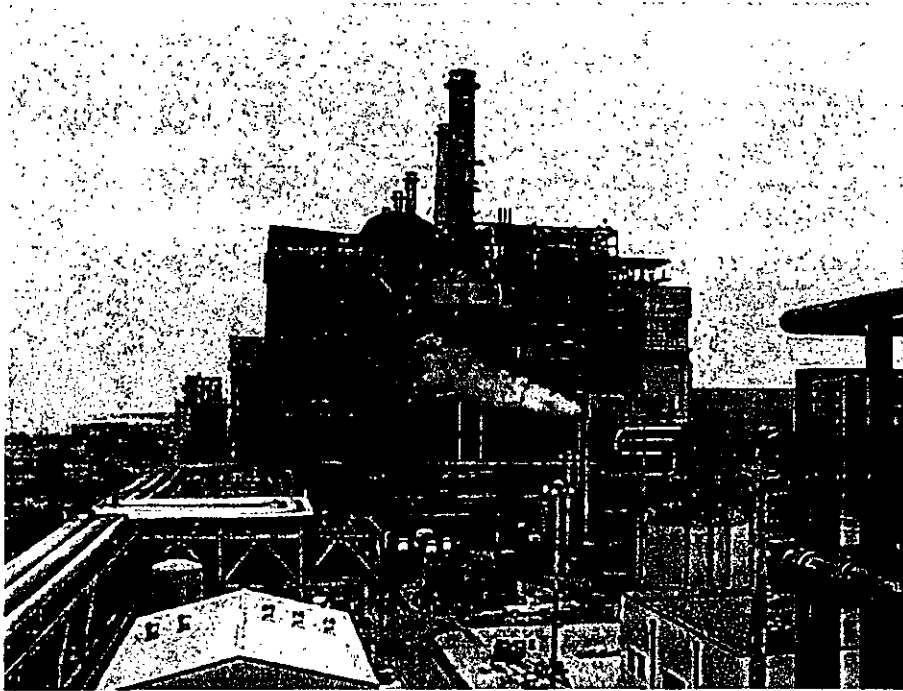
The TECO Bayside Power Station project is a \$700 million project with 11 combined cycle units planned for a capability of generating a total of 2,845 MW. The units are natural gas fired using ammonia injection, dry low NOx burners and selective catalytic reduction (SCR) to control air pollutant emissions. The units use an evaporative inlet air conditioning system to increase the efficiency of the units. The SCR system has not been installed yet but was on site. Construction at the station appears to be on schedule. The new plant will require 70 personnel compared to the 400 needed for the old plant. SO<sub>2</sub> emissions will go down from 6 digit number levels to 2-3 digit levels!

Picture #2 is a view looking east of the new power station with currently seven units on site. This site is adjacent to the old plant. Picture #5 is a close up of one of the new units designated as CT#2D which is manufactured by General Electric, Model PG7241(FA). At the time of my visit, four of the seven units on site were running in simple cycle mode.

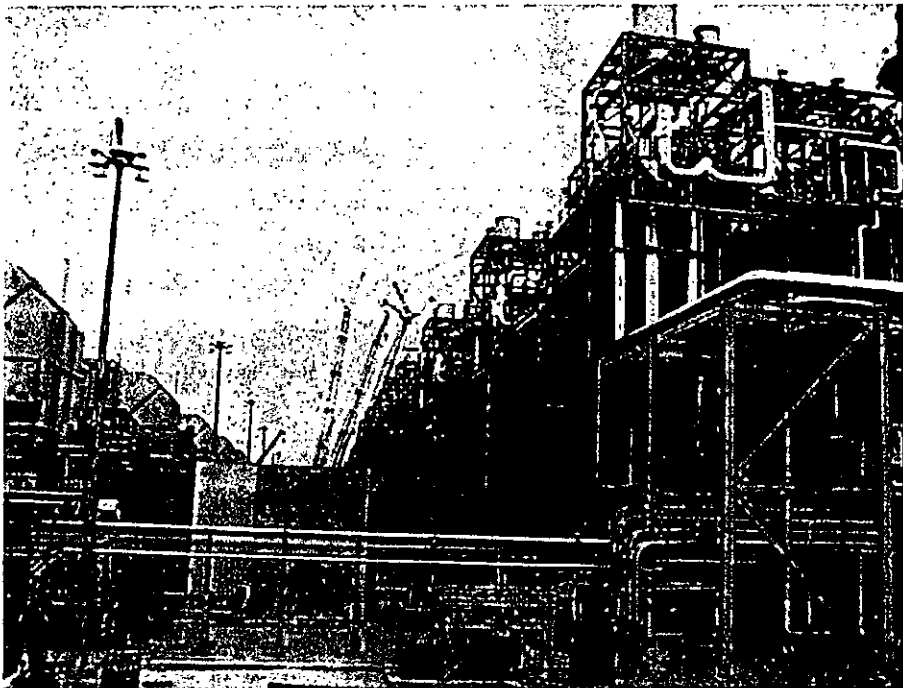
The units were being started up, tested, debugged, etc. The Unit #1B's NOx emissions were shown to be ~10 ppm by the CEMS. CEMS emissions data was readily available in the control room and the CEMS trailer. Per TECO, CEMS emissions data is also readily available in TECO's central database.

Attachments

TECO Gannon/Bayside Power Station  
March 28, 2003

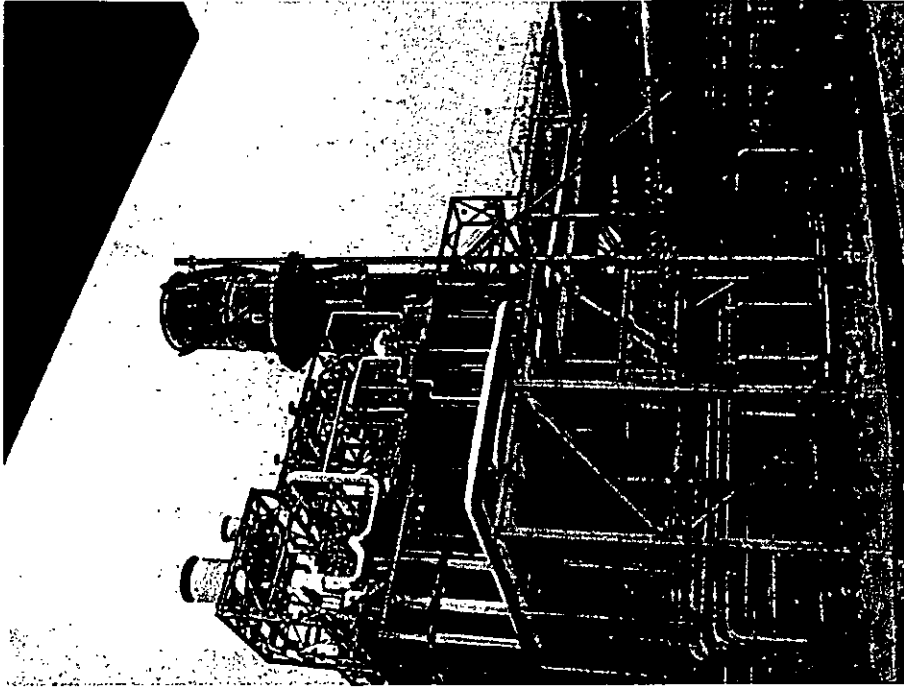


Picture #1. TECO-Gannon Plant looking west {the old plant}

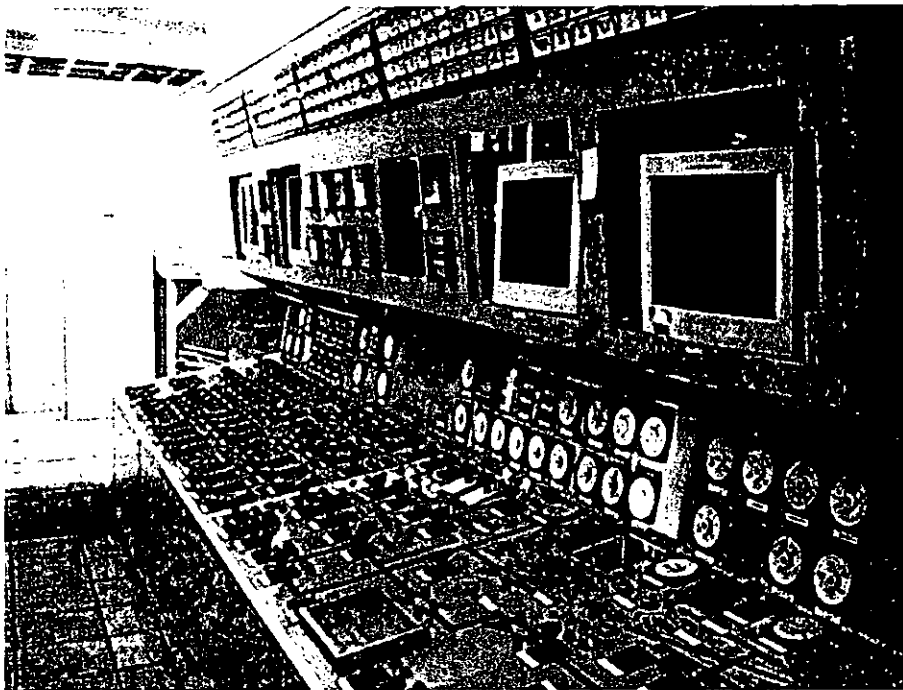


Picture #2. TECO-Bayside Power Station looking east {the new plant}

TECO Gannon/Bayside Power Station  
March 28, 2003

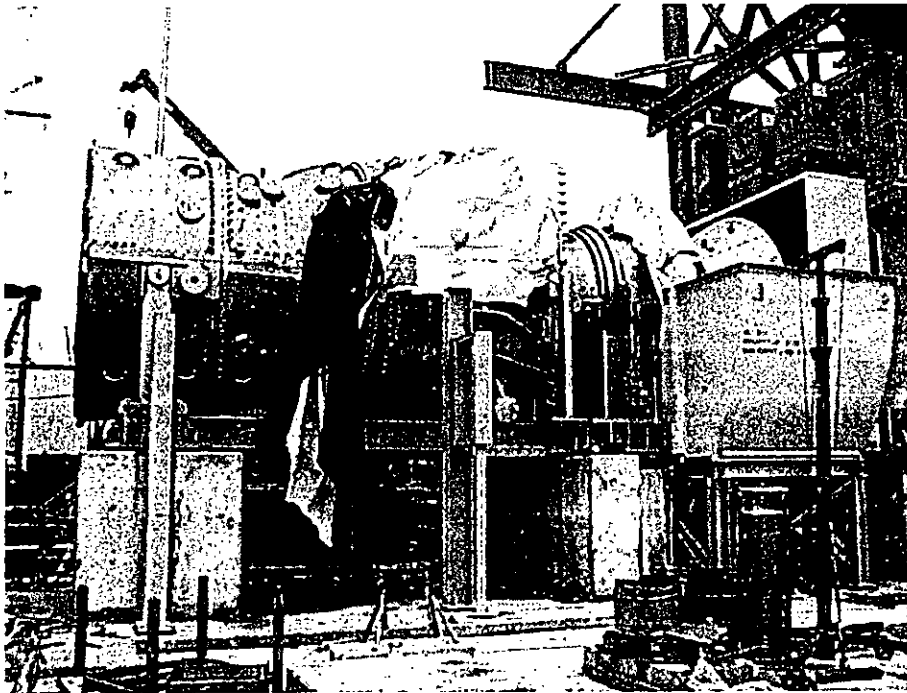


Picture #3. TECO Bayside Power Station up close



Picture #4. TECO-Gannon Plant control room

TECO Gannon/Bayside Power Station  
March 28, 2003



Picture #5. TECO Bayside Power Station  
New GE Combustion Turbine designated as CT#2D