

APIS
11-26-86

INSPECTION REPORT FORM
AIR POLLUTANT EMISSION SOURCES

D. E. R.

DEC 02 1986

FACILITY TECO GANNON STATION		DISTRICT 40	COUNTY WEST DISTRICT SOUTH 29 TAMPA
ADDRESS PORT SUTTON		CONTACT BOB STAFFORD, GREG NELSON, DAVE TELLERSON, JOSE LA PUENTE	
APIS # 040	PERMIT # (11) A029-80046	EXPIRATION DATE 5/30/89	
SOURCE DESCRIPTION (06) UNIT #6 (11) FLYASH HANDLING FOR POWER BOILERS #5 & #6			
INSPECTION DATE 11/7/86	AUDIT TYPE III	COMPLIANCE STATUS 3	
INSPECTION COMMENTS/RECOMMENDATIONS ANNOUNCED INSPECTION TO VERIFY THE ORIGIN OF THE VE NOTED ON 11/5/86. WE WERE INFORMED THAT A PLUGGAGE WAS NOTED IN #6 UNIT ESP FLYASH HOPPER WHERE THE ASH FALLS INTO A LINE FOR PNEUMATIC TRANSFER TO THE UNIT #5 & #6 FLYASH SILENCE (HOPPER 4A OR 4B). A MECHANIC ATTEMPTED TO CLEAR STOPPAGE BY OPENING AN ACCESS PORT, WHICH THEN ITSELF BECAME JAMMED OPEN BY A BALL OF CLINKER. IN TRYING TO UNJAM THE ACCESS PORT, FLYASH WAS RELEASED. THE SITE OF THE EMISSION (6TH LEVEL OF PLANT) WAS INSPECTED. CONTROL ROOM DATA AND ESP DATA FOR UNIT #6 WERE RECORDED. FOR PERMITTING REASONS, UNIT #5 WAS CHECKED FOR EXTERIOR BOILER FUE GAS LEAKS.* BOB STAFFORD WAS INFORMED OF IMPENDING WARNING NOTICE. AT THE TIME OF THIS INSPECTION MAINTENANCE (OVER)			
INSPECTOR(S) NAME(S) W. SCHROEDER / M. SICCOTT			
SIGNATURE(S) W. Schroeder / M. Siccott		DATE 11/12/86	

* NONE NOTED

WAS BEING PERFORMED ON THE FLY ASH SILO BAGHOUSE THAT SERVICES UNIT # 6 WHICH NECESSITATES RE-INJECTING 100% OF THE FLY ASH TO THE BOILER. IN THIS OPERATING MODE A LEAK OF FLY ASH WAS DETECTED AT A DISTRIBUTION TANK ON LEVEL 6. BEFORE WE LEFT THE PLANT THE LEAK WAS CORRECTED BUT SHOULD BE CHECKED IN A FUTURE INSPECTION.

TECO BIG BEND/GANNON OPERATING PARAMETERS

Unit # - 6
 Date 11/7/86
 Time 11:30 AM
 Load (MW) 376
 No. Burners in Use 24
 Combustion Air Damper N/A
 Positions (@ Burner) N/A
 Main Steam Flow Rate 2670×10^6 LB/HR
 Main Steam Temp. 290°F
 Main Steam Press. 2400 PSI
 Attenuator Flow Rate N/A
 Air Preheater Gas In Temp. 810
 " " Gas Out Temp. 330
 " " Air In Temp. 100
 " " Air Out Temp. 650
 Flue Gas Excess O₂ % 2.25
 Fuel Flow Rate —

ESP DATA

SET Number	TRANS Primary UDC	PPT Amps	TRANSFORMER Primary AMP
R ₂ S ₂	256	.25	70
N ₂ P ₂	240	.20	50
L ₂ M ₂	210	.175	60
J ₂ K ₂	275	.40	100
G ₁ H ₁	180	.15	45
E ₁ F ₁	255	.35	75
C ₁ D ₁	270	.50	115
A ₁ B ₁	310	.90	165
R ₁ S ₁	245	.42	75
N ₁ P ₁	225	.19	60
L ₁ M ₁	200	.20	45
J ₁ K ₁	245	.25	45
G ₂ H ₂	250	.40	80
E ₂ F ₂	250	.40	105
C ₂ D ₂	330	1.05	175
A ₂ B ₂	295	1.00	185

IF NOT AVAILABLE GET FUEL BTU &

LATEST HEAT RATE FOR THE UNIT) *

Stack CEM Reading(s) 8% opacity (16% during ASH REACT)

Combustion Air Flow (LB/HR) N/A

Saturated Steam Press. 2510

If using overfire Air - NO
Flow Rate / Damper Pos.

UNIT WAS REINJEK
100% PLASH WHILE WORK
KERS REPLACED BAGHOUSE
BAGS ON ASH SIKO

* ASSUME : FUEL BTU/LB = 12000

UNIT HEAT RATE = 10,000 BTU/KW