

INTEROFFICE MEMORANDUM

Date: 20-Jul-2000 02:14pm
From: J-Michael.Kennedy
J-Michael.Kennedy@fpc.com
Dept:
Tel No:

Subject: Tiger Bay Package Boiler Permit

Jonathan,

Sorry I didn't get this to you sooner. As we discussed, FPC agrees to the following specifications in the Tiger Bay package boiler construction permit:

EPA Method 7E for NOx testing.

Opacity standard of 20% for normal operating conditions.

Up to 27% opacity allowed for one 6-minute period per hour.

I think that covers what we discussed. Feel free to call me with questions. Thank you.

Mike Kennedy
(727) 826-4334

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Mike Kennedy
(727) 826-4334

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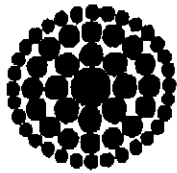
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; Thu, 20 Jul 2000 14:14:19 EDT

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X-OpenMail-Hops: 1



**Florida
Power
CORPORATION**

Date: 5/16/00

To: Jonathan Halton

FAX #: (850) 922-6979

Phone #: ()

From: Mike Kennedy

FAX #: (727) 826-4216

Phone #: (727) 826-4334

4 Total number of pages including cover page.

Please notify _____ at (727) 826 - _____
for any problems concerning the receipt of this FAX.

Comments:

02/18/2000 09:44 941-519-5166

FPC TIGER BAY
NATIONWIDE BOILER

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42400 Christy Street, Fremont, CA

February 17, 2000

Florida Power Corp.
263 - 13th Ave. South MAC BB2A
St. Petersburg, FL 33701

Attn: Carey Frost

Subject: RFP, FPC File No. : 00-013-CFF
Auxiliary Boiler - Tiger Bay

FPC		7671		7100 Fax: 510-480-0571	
To	FPC	Date	2-17-00	Page	17
Co./Dept.	Carey Frost	From	Larry Day	Co. Nationwide Boiler	
Phone #	941/519-6666	Phone #			
Fax #		Fax #			

In response to your latest RFP, FPC File No. 11-013-CFF dated February 15, 2000, for an auxiliary boiler at Tiger Bay, we are pleased to present our **ALTERNATE BID** as follows:

A) Boiler

One (1) reconditioned 1990 85,000 lb/hr Cleaver-Brooks model DL-84 package watertube boiler, 260-psi design, natural gas fired, complete as follows:

- New Coen Delta NOx low emission burner (0.10 lb/mmBtu NOx or less without FGR)
 - NFPA 8501 fuel train
 - New Coen Fyr Monitor PLC based boiler/burner control system self-contained in one (1) boiler mounted NEMA 4 panel with touch screen interface
 - New drum level transmitter with Fisher pneumatic control valve and 3 valve bypass
 - Rebuilt boiler trim and valving (safety valves, blowdown valves, stop/check & gate type header valves, vent valve, steam gauge, water/level gauge glass, LWCO, ALWCO, HWA)
 - FD Fan with 100 hp, 480 volt TEFC motor and starter
 - 25' self-supporting stack with flanged boiler transition inlet
- Connection Sizes:
- Steam: 8" 300 psi flange
 - Gas: 3" 150 psi flange
 - Water: 2 1/2" 300 psi flange
 - Blowdown: 1 1/4" 300 flange
- Dimensions:
- Length: 36' 0"
 - Height: 14' 5 1/4"
 - Width: 11' 4 1/2"
 - Shipping Weight: 96,800 pounds
 - Operating Weight: 131,300 pounds

B) Deaerator With Pumps:

One (1) reconditioned Cleaver-Brooks model SM140 Spray Type Package Deaerator, built 1982, .005 cc/liter oxygen guarantee, consisting of 84" x 15' 1/2" 50 psig ASME Coded receiver, stainless steel internals, 2,800 gallons storage capacity, normal tank trim items & pneumatic steam and water inlet control valves, structural steel stand, pump suction piping with strainers, three (3) new Paco model

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OLN low NPSH 2-stage centrifugal pumps with 50 hp TEFC motors, new NEMA 4 control panel with lights, alarms, pump H-O-A switches and motor starters.

EQUIPMENT SALES TERMS AND CONDITIONS

Selling Price: A) Boiler - \$365,000
B) Deaerator with pumps - \$85,000

Limited Warranty: One (1) year per attached

Taxes: Not Included

Installation: Not Included

Air & Operating Permits: Not Included

Expiration: This quotation is valid for 90 days but availability is subject to prior rental or sale.

Terms of Payment: 25% with the order; balance upon delivery.

Freight: Allowed to jobsite nearest rail siding (unloaded by others)

Start-up Service & Operator Training: Included

UTILITY CUSTOMERS

Pacific Gas & Electric
Southern California Edison
Duke Power
Public Service Gas & Electric
Texas Utilities
Jacksonville Electric Authority
Sacramento Municipal Utility District
East Bay Municipal Utility District
Louisiana Power & Light
New York Power Authority
New York State Electric & Gas
Toledo Edison

Nationwide Boiler Incorporated

42400 Christy Street, Fremont, CA 94538-4401 1-800-227-1988 510-498-7100 Fax: 510-490-0571

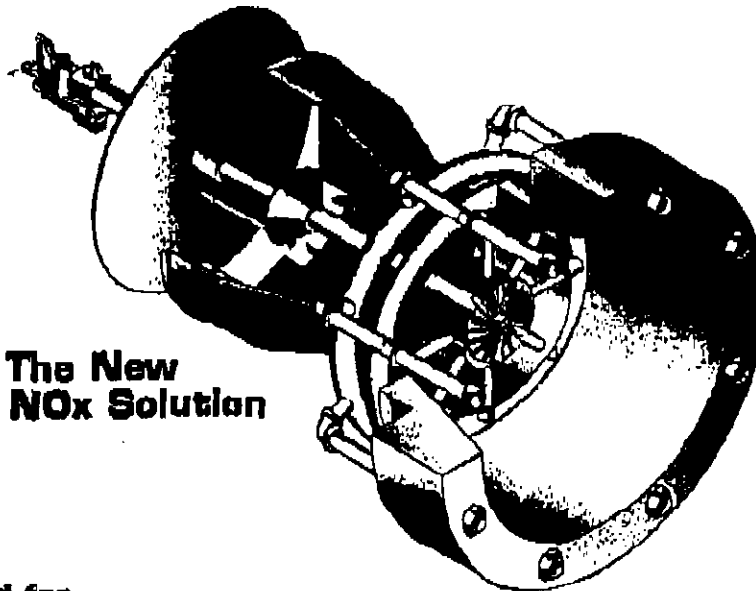
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FPC TIGER BAY
NATIONWIDE BULLERPAGE 86/12
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PRODUCT
BULLETIN
Delta-NOx

THE DELTA-NOx BURNER

The New Low NOx Solution



The New Standard for Packaged Boilers

The newest innovation in Coen's long legacy is the Delta-NOx burner, destined to be the new standard for the industrial and utility markets. The versatile Delta-NOx produces impressive performance results firing a variety of liquid and gaseous fuels. Firing natural gas, the Delta-NOx is designed to achieve 0.1 lbs/MMBtu NOx (83 ppm) without the addition of expensive flue gas recirculation (FGR) in high space heat release rate applications.

Coen's engineering team considered everything - from meeting coast to coast emission standards to designing a burner with simple construction and low cost. The result is a burner unlike any other in the industry.

The Delta-NOx utilizes Coen's new "Delta Spuds", which are unique gas injectors with a custom drilling pattern that controls ignition, and at the same time reduces formation of prompt and thermal NOx. The Delta Spuds, in combination with our custom low-swirl central stabilizer, achieve high burner turndown and low emissions. Additionally, the venturi style burner design provides superior air distribution with reduced pressure drop, further reducing NOx and CO emissions.

Design Features and Benefits

- < 0.1 lbs/MMBtu (83 ppm NOx) firing natural gas without FGR
- Lower NOx reductions with FGR (below 30 ppm)
- High space heat release applications
- Low gas pressures
- High burner turndown
- Low NOx capability with oil firing
- Safe operation with simple controls
- Compact flame
- Lower burner pressure and excess air (saves on horsepower costs)
- Uniform air distribution for low CO
- Simple, rugged design with no moving parts
- Easy installation and startup