



Fax Message

Date:	<u>11/2/2005</u>		
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Special Instructions:	_____		
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Message:

*Mike, per our discussion please see the attached
specification from Victory*

*Thanks
Nick*

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Proposal No.: VE-2127r.6

SECTION 3.0

"O" TYPE BOILER SPECIFICATIONS

GENERAL INFORMATION

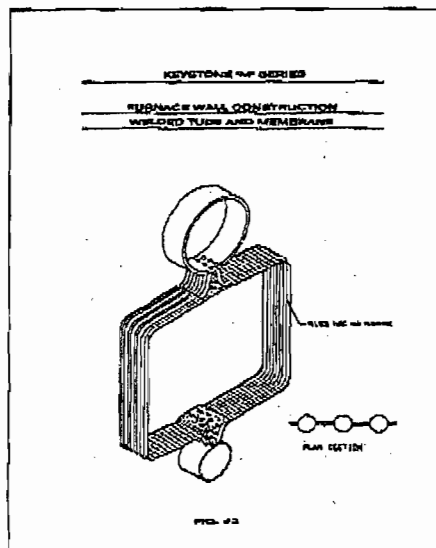
Victory Energy Operations, LLC proposes to furnish a custom steam generating systems to be utilized by Indiantown Cogeneration at the Indiantown Cogeneration site located in Indiantown, Florida. The boilers will be designed with the following characteristics:

➤ Quantity:	Two (2) Boilers
➤ Capacity:	136,000 lbs/hr Saturated Steam
➤ Design Pressure:	350 PSIG
➤ Operating Pressure:	250 PSIG
➤ Operating Temperature:	406 °F at the NRV outlet
➤ Feedwater Temperature:	240 °F
➤ Primary Fuel:	Natural Gas
➤ Boiler Location:	Outdoors

The "O" style boiler design offers the least amount of furnace refractory compared to other designs. The tube and membrane seal welded front and rear walls virtually eliminates all refractory in the furnace, other than localized seals and refractory coverage of the water cooled burner throats. This design greatly reduces maintenance costs and offers increased unit availability. The furnace sidewalls are tube and membrane construction for the entire length of the furnace to eliminate the possibility of gas bypassing. The outer sidewalls are also tube and membrane design for gas tight construction. This design offers 100% water cooling and the ability to provide an extremely fast ramp rate.

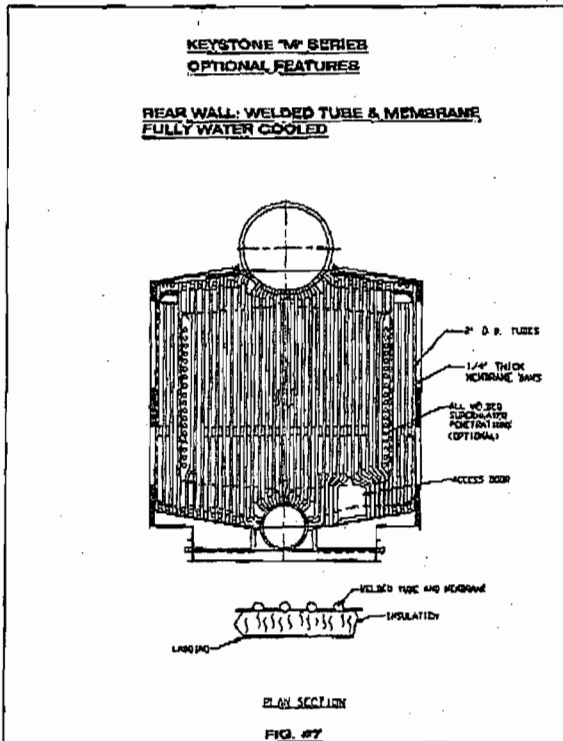
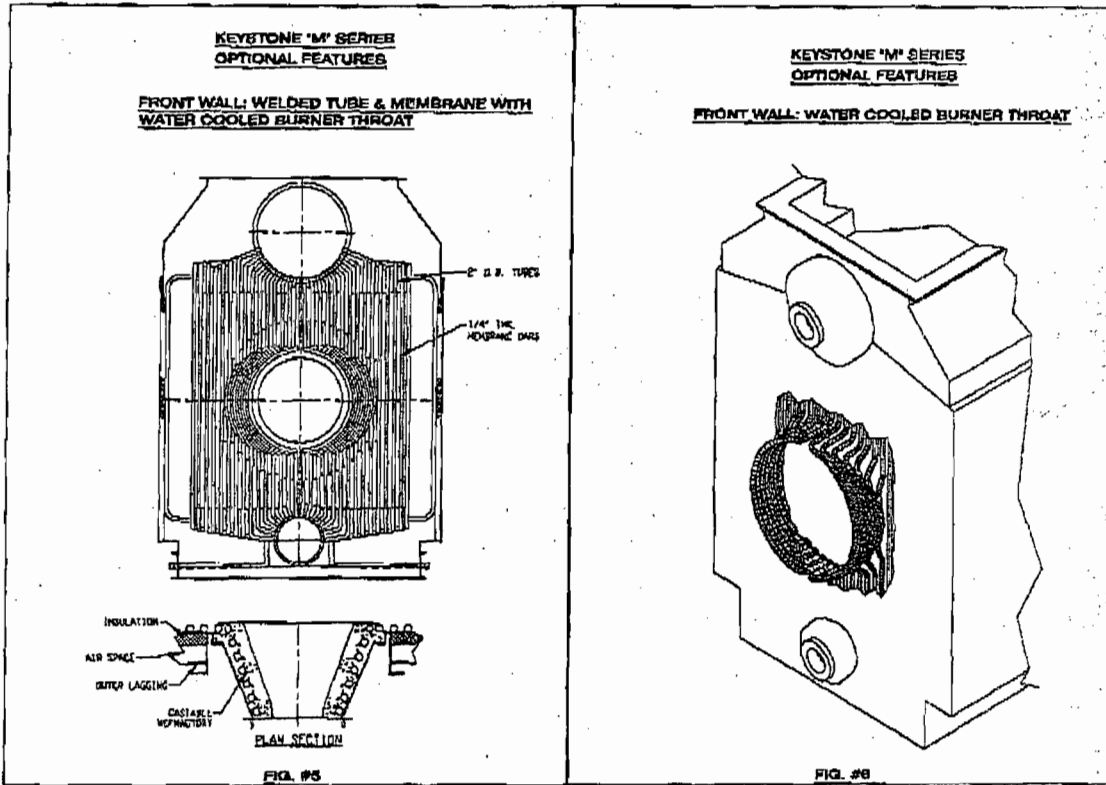
The furnace wall tubes of any boiler encounter the highest heat flux. The "O" type design, has the shortest furnace wall tubes in the industry. This advantage removes heat from the furnace quickly and extends boiler life.

The "O" design has a single lower drum which reduces maintenance compared to other designs that may have two lower drums or headers. The single large diameter drum makes it casier to perform inspections and to maintain lower tube connections. The steam drum will contain steam separation equipment.





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3.2 Heating Surfaces, Design Pressure and Size

• Furnace Radiant Heating Surface	1,196 Sq. Ft.
• Convection Heating Surface	7,659 Sq. Ft.
• Total Heating Surface	8,855 Sq. Ft.
• Furnace Volume	2,029 Cu. Ft.
• Overall Width	12'-2"
• Overall Height	15'-5"
• Weld Line Length	35'-0"
• Design Pressure	350 psi
• Operating Pressure:	250 psi
• Saturation Temperature:	406° F

3.3 Drums

Submerged arc automatic welded and stress relieved with radiographed welded seams

- Drum material shall be SA-516 Gr. 70 or equal
- Tubes are rolled and expanded into the drum
- Drums are provided with a 12" x 16" manway access in each drum head

3.3.1 Upper (Steam) Drum

- Inside Diameter is 48 inches
- All connections to be flanged.
- External connections consist of the main steam outlet, water column, auxiliary low water cut-off, steam gauge, vent, safety valves, feedwater, and continuous blowdown.
- The upper drum includes a feedwater distribution pipe and a blowdown collection pipe.

3.3.2 Lower (Mud) Drum

- Inside diameter is 24 inches
- All connections to be flanged.
- External connections consist of chemical feed and intermittent blowdown.
- The intermittent blowdown connection is at the lowest point for draining of the unit
- The lower drum includes a chemical distribution pipe

3.4 Tubes

1. All tubes enter the drum radially with full parallel bearing through the drum plate
2. All tubes are full diameter tubes with no swaging
 - Front Wall: 2" O.D., 0.150" M.W., SA-178 Grade A
 - Rear Wall: 2" O.D., 0.150" M.W., SA-178 Grade A
 - Furnace Floor, Sides & Roof: 2" O.D., 0.150" M.W., SA-178 Grade A
 - Convection: 2" O.D., 0.120" M.W., SA-178 Grade A
 - Outer Side Wall: 2" O.D., 0.150" M.W., SA-178 Grade A



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3.5 Boiler Wall Construction

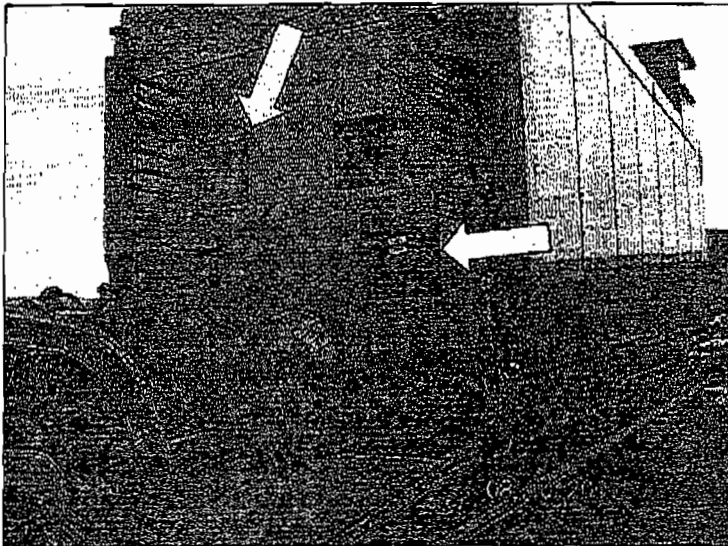
Boiler Wall Construction

The outer lagging of the boiler will have an average surface temperature of 140 Deg. F ambient with 2 MPH wind velocity. The boiler walls include the following:

- The furnace sides, roof and floor consists of a tube and membrane design. The wall is constructed with 2" O.D. tubes with 1" wide by ¼" thick steel membranes welded to each tube.
- The front wall consists of a tube and membrane design. The first layer is 2" O.D. tubes with 2" exposed width by ¼" thick carbon steel membranes welded to the tubes. The second layer is 3" of 1200 Deg. F. board insulation. The outer surface is 24 gauge Carbon Steel lagging properly stiffened.
- The rear wall consists of a tube and membrane design. The first layer is 2" O.D. tubes with 2" exposed width by ¼" thick carbon steel membranes welded to the tubes. The second layer is 3" of 1200 Deg. F. board insulation. The outer surface is 24 gauge carbon steel lagging properly stiffened.
- The outer boiler side wall will be a tube and membrane design. The first layer is 2" O.D. tubes with 1" wide by ¼" thick carbon steel membrane welded to the tubes. The second layer is 3" of 1200 Deg. F. board insulation. The outer surface is 24 gauge corrugated galvanized steel lagging properly stiffened.
- The drum will be insulated with 2" of 1200 Deg. F. blanket insulation. The outer lagging shall be 24 gauge carbon steel.

3.6 Boiler Access

The boiler will be provided with platforms to access the top of the boiler, drum, burner, non-return valve, safety valves and trim items. The boiler furnace is accessible through one (1) 12" x 16" rear wall access door. The rear wall also includes two (2) 3" diameter observation ports.





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3.7 Steam Purification

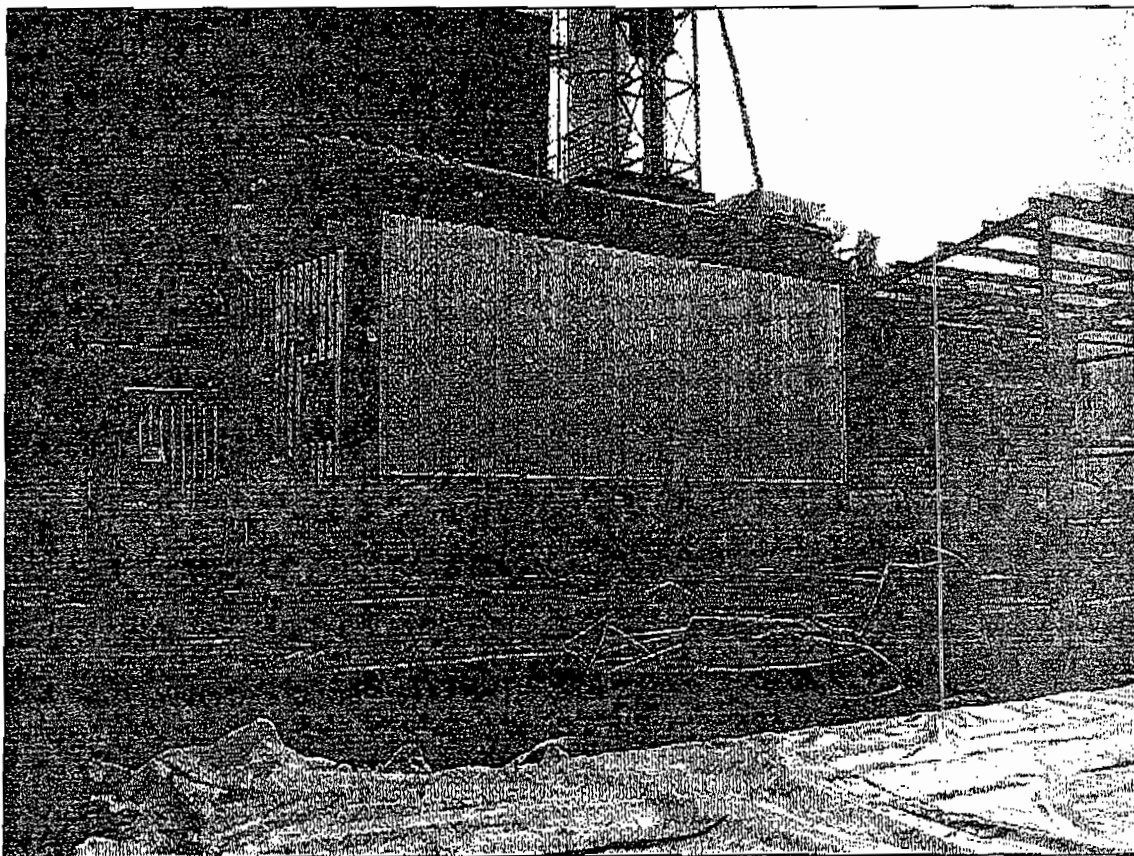
The upper (steam) drum includes steam purifiers, vortexes and chevrons. These steam purifiers also include a dry pan and a baffle. This steam purification system is designed to produce 0.1% moisture carry over based on ABMA maximum boiler water concentration standards.

3.8 Structural Base

The boiler includes a rigid structural steel base frame designed to distribute the loads onto a flat concrete foundation. The boiler is designed to be anchored at the front (anchor bolts are required and supplied by others) with thermal expansion towards the rear. Two (2) 12" x 16" structural base access doors are included (one on each side).

3.10 Piping, Trim and Accessories

- Water level piping to water column and auxiliary water cutout
- Drain piping for water column water gauge glass, auxiliary cutout, and pressure gauge drain to approximately one (1) feet above boiler base.
- Steam pressure piping to pressure gauge
- Air piping from the air duct to the observation port
- Intermittent blowdown piping between the VEO isolation valve to buyers common existing blowdown tank shall be provided by VEO and installed by others.





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3.11 Preparation and Painting Standards

Components	Base
Drum Openings	
Flanged	Coat w/ Rust Inhibitor
Screwed	Capped
Welded	Weldable Rust Inhibitor
Drum	No Paint
Drum Heads (Un-insulated)	SSPC-SP-3 w/ 3-5 Mils High Temp.
Base Frame	Surface Preparation-SP3 Primer - 3 Mils Inorganic Zinc Finish - 3-5 Mils Hi Build Epoxy
Exposed Casing	Surface Preparation-SP3 Primer - 3 Mils Inorganic Zinc Finish - 3-5 Mils Hi Build Epoxy
Flue Gas Outlet	Surface Preparation-SP3 Primer - 3 Mils Inorganic Zinc Finish - 3-5 Mils Hi Build Epoxy
Windbox Gumer	By vendor
Lagging	
Sides	Corrugated Galvanized Steel
Roof	Flat Carbon Steel Surface Preparation-SP3 Primer - 3 Mils Inorganic Zinc Finish - 3-5 Mils Hi Build Epoxy
Drum	Flat Carbon Steel Surface Preparation-SP3 Primer - 3 Mils Inorganic Zinc Finish - 3-5 Mils Hi Build Epoxy
Head Covers	None
Trim Piping - (Water column, drain piping, etc.)	SSPC-SP-3 w/ 2 Mils High Temp.



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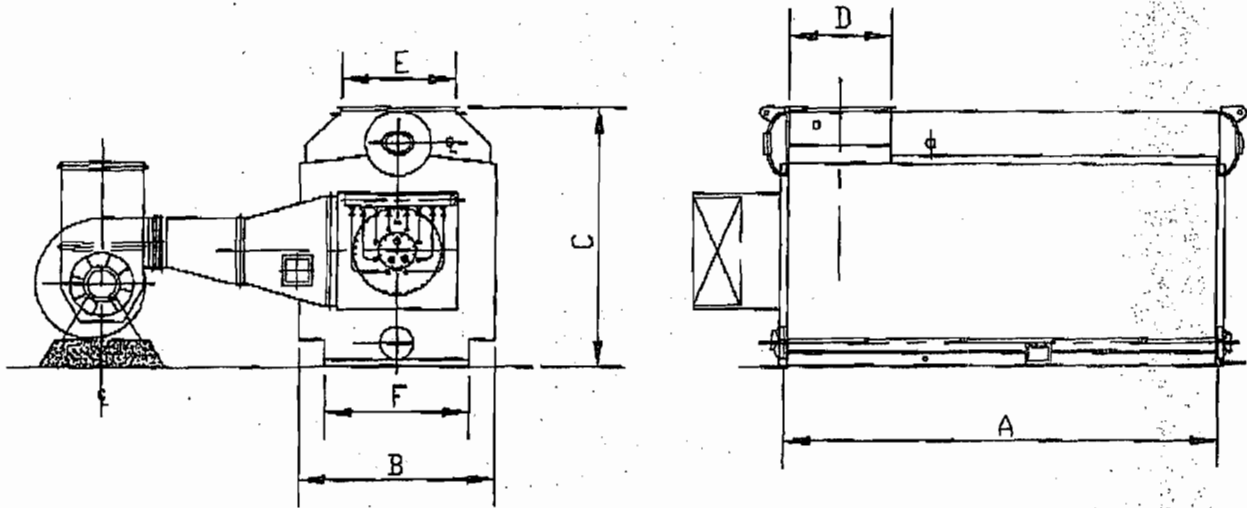
3.12 Trim Specification (list is typical of "1" unit with "2" units required)

BOILER	QUANTITY	SIZE	MANUFACTURER
Water Column	1	1 1/4"	Clark-Reliance
Auxiliary Low Water Cutoff	1	---	Clark-Reliance
Water Column Drain Valve	1	3/4"	Vogt
Auxiliary Low Water Drain Valve	1	3/4"	Vogt
Water Column Gauge Drain Valve	2	3/8"	Vogt
Steam Gauge	1	8 1/2"	Ashcroft
Steam Gauge Siphon	1	1/2"	Ashcroft
Steam Drum Vent Valve	1	1"	Vogt
Drum Blowoff Valve	2	2"	Edwards
Chemical Feed Valve	1	1"	Velan
Chemical Feed Check Valve	1	1"	Velan
Nitrogen Blanket Valves	2	3/4"	Vogt
Chemical Cleaning Valves (lower drum)	2	1"	Vogt
Continuous Blowdown Shutoff Valve	1	1"	Vogt
D.L.T. Shutoff	2	1"	Vogt
Continuous Blowdown Flow Control	1	1"	Vogt
Boiler Safety Valve #1	1	TBD	Consolidated
Boiler Safety Valve #2	1	TBD	Consolidated
Main Steam Valve	1	10"	Edwards
Main Steam Gate Valve (motorized)	1	10"	Newco
Main Steam ASME code spool	1	10"	VEO
Warm-up coil stop valves	3	1"	Vogt
Warm-up coil globe valves	2	1"	Vogt
Steam pressure control valve	1	1"	Jamesbury
Warm-up coil check valve	1	1"	Vogt
Warm-up coil drain valve	1	3/4"	Vogt
Warm-up coil pressure gauge	1	---	Ashcroft
Warm-up coil temperature gauge	1	---	Ashcroft
Feedwater Control Valve	1	3"	Jamesbury
Feedwater Control By-pass Valve	1	4"	Newco
Feedwater Control Isolation Valve	2	4"	Newco
Feedwater Piping	1	4"	VEO
Boiler Feedwater Check Valve	1	4"	Newco
Boiler Feedwater Gate Valve	1	4"	Newco



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VICTORY ENERGY "O" SERIES STANDARD MODELS



BOILER FRONT ELEVATION

BOILER R. H. SIDE ELEVATION

NOTE: FD Fan is top mounted on the windbox and is NOT side mounted as shown.

MODEL	O/ Frame
A Base Length	35'-0"
B Overall Width	12'-2"
C Overall Height	15'-5"
D Gas Outlet Length	7'-6"
E Gas Outler Width	9'-6"
Shipping Weight (lbs)	142,000 (T.B.A)

Shipping weight to be confirmed during the issuance of the final certified drawings.

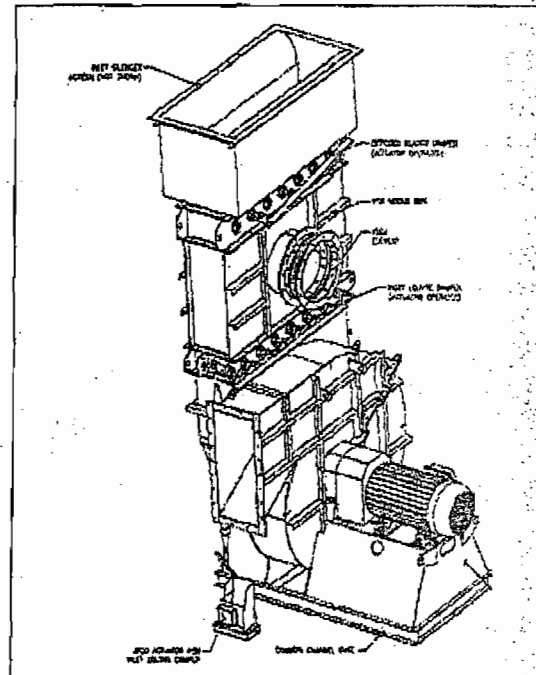
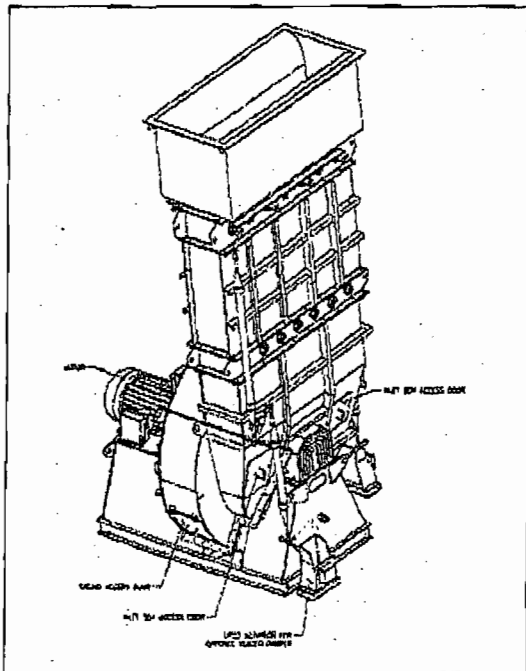


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3.14 Forced Draft Fan

Two (2) Alphaair, or equal, Centrifugal Fans, top winbox mounted, complete with:

- SWSI configuration
- Inlet Screen
- Inlet and Outlet flanges
- FGR mixing box and control damper complete with actuators
- Casing and inlet box access doors
- Casing and inlet box drains
- Falk coupling
- Rain Hood
- Inlet louver damper
- Carboline 890 – T135 VEO Blue finish over phosphate wash preparation
- Balance to ISO 1940-G 2.5
- Bearing RTD's
- 250 HP 1800 RPM 3/60/480V WEG Motor, TEFC





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3.15 Predicted Boiler Performance (with out an economizer)

7/25/05

PROPOSAL NO. 2127
BOILER DESCRIPTION: 23M Keystone

PREDICTED OPERATING PERFORMANCE DATA

Fuel(s) Fired Per Load.....	NG	Propane	NG
Boiler Load.....%	100.0	100.0	10.0
Steam Output.....lbs/hr	136000.	136000.	13600.
Water Side			
Pressure at Boiler Outlet....PSIG	250.	250.	250.
Sat. Temp. at Boiler Outlet.Deg.F	408.	408.	406.
Percent Blowdown.....%	3.00	3.00	3.00
Blow Down.....lbs/hr	4205.	4205.	421.
Feedwater Flow.....lbs/hr	140205.	140205.	14021.
Feedwater Temp System Inlet.Deg.F	240.	240.	240.
Firing Conditions			
Excess Air-NG	15.00		35.00
Excess Air-Propane		15.00	
O2 in Flue Gas Lvg. (dry vol)...%	2.97	2.94	5.83
Flue Gas Recirculation.....%	20.00	20.00	20.00
Air/Flue Gas Side			
Ambient Air Temperature.....Deg.F	100.	100.	100.
Relative Humidity.....%	80.00	80.00	80.00
Temperature of FGR.....Deg.F	551.	544.	407.
Gas Temp. Leaving Furnace...Deg.F	2226.	2249.	1191.
Gas Temp. Leaving Boiler....Deg.F	551.	544.	407.
Flue Gas Flow Lvg. System.lbs/hr	158499.	164987.	18872.
Flue Gas Recirculated Flow.lbs/hr	31700.	30987.	3774.
Combustion Air Required...lbs/hr	150479.	147127.	18053.
Furnace Liberation...BTU/cu.ft-hr	84532.	82983.	8649.
Furnace Release Rate.BTU/sq.ft-hr	135175.	134000.	13447.
Draft Losses Through			
Fan Inlet ducts.....inches H2O	0.50	0.48	0.01
Fan Outlet Ducts.....inches H2O	0.00	0.00	0.00
Burner.....inches H2O	8.30	7.93	0.12
Convection Zone.....inches H2O	14.28	13.84	0.19
Gas Ducts.....inches H2O	0.50	0.48	0.01
Total Draft Loss.....inches H2O	23.56	22.83	0.33
Heat Losses (Based on MW)			
Dry Gas.....%	9.49	9.58	6.85
Hydrogen and Moisture in Fuel...%	11.80	9.59	11.16
Moisture in Air.....%	0.82	0.82	0.50
Unburned Combustibles.....%	0.00	0.00	0.00
Radiation.....%	0.45	0.45	4.62
Manufacturer's Margin.....%	1.00	1.00	1.00
Total Heat Loss.....%	22.36	20.24	24.02
Predicted Efficiency.....%	77.64	79.76	75.98
Fuel Flow-NG	8020.		820.
Fuel Flow-Propane		7680.	
Heat Input.....BTU/hr	175.0157	170.3877	17.8882



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SECTION 4.0**BURNER SPECIFICATIONS****4.1 Introduction**

Two (2) 136,000 pounds per hour "O" type package boilers are each to be supplied with a low NOx packaged burner which will fire natural gas (or propane gas as the back-up).

Based upon the burner design specification presented in Section 2, TODD Combustion Product Group of the John Zink Company LLC (John Zink) is pleased to offer Victory Energy Operations LLC, for each boiler, our pre-engineered, TODD gas only low NOx Variflame burner with windbox, valve trains, miscellaneous field switches, flame scanning equipment, gas flow control valve and gas fuel meter.

Each packaged burner is factory pre-assembled to the maximum extent to minimize field installation and easily mounts onto the boiler frontplate.

The gas-electric ignitor will be sized to provide sufficient heat input for the stand-by condition (as recommended by the boiler supplier), in order to minimize the fuel usage to the boiler during stand-by.

In order to meet the NOx requirements, flue gas recirculation, in combination with the TODD low NOx burner, will be required. Flue gas recirculation will be induced into the F. D. fan, premixing with the combustion air upstream of the windbox.

Recognizing that combustion air is 94% of the mass flow through the burner, with fuel only being 6%, as part of the "system" solution for supplying a burner for optimum performance, John Zink will provide air flow distribution studies of the windbox and upstream combustion air duct, using our in-house CoolFlow™ physical modeling facilities. An approximate 8 to 1 scaled version of the combustion air system using plexiglas is built. These physical model studies determine the size and location of baffles to be provided, in order to assure balanced air flow to the burner, and will result in reduced system draft losses, reduced stack emissions at lower excess oxygen levels, and greater boiler efficiency. A drawing will be provided indicating the size and location of baffles, in the windbox and in the combustion air duct, if required.

4.2 Standard Features

Some of the standard design features of the TODD Variflame burner are:

- Flame stability at low excess air rates for reliable, energy efficient boiler operation
- High turndown ratios for wide range of boiler operation
- Axial parallel air flow to control the flame envelope and provide even heat flux
- Known flame length and diameter, to suit furnace firing lane without impinging on boiler tubes or furnace walls
- Dual air registers provide internal staging of the combustion process to reduce NOx formation
- Combustion air passes through a fixed dual air register design with no moving parts to reduce operator attention
- A strong flame front established approximately eight (8) inches off the face of the diffuser, which maintains the burner refractory throat cool, thus avoiding the replacement of the throat or tile often found on other burners that requires hot refractory to assure a stable burner flame



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- A strong flame front established approximately eight (8) inches off the face of the diffuser, which does not move during changes in the firing rate, thus providing a stable flame for scanning, resulting in reliable operation
- Flame scanner swivel mount for ease of "sighting" of flames, mounted on the burner frontplate
- Gas-electric ignitor, operates only through the cycle to light-off the main fuel, is fixed in the burner and terminates behind the diffuser; retraction mechanisms and associated limit switches are not required, thus minimizing boiler front components and reducing maintenance costs
- Heavy gauge construction of all components for ruggedness and durability during installation and servicing

4.3. Burner Design Basis & Specifications

A. Burner Design Basis

Boiler Data

Manufacturer	VEO
Type	O
Design Steam Flow	136,000 lb/hr
Steam Pressure	250 psig (saturated)
Steam Temperature	406 Deg. F.

Furnace Operating Pressure including FGR at MCR	15 in wg (approx)
Combustion Air Temperature	100 deg F
Flue Gas Temperature	550 deg F (Design Point)

Fuel Data

Fuel Gas	
Type	Natural
High Heat Value	950 Btu/scf
Pressure Required at TODD interface	20 psig (regulated by others)

Fuel Gas	
Type	Propane
High Heat Value	2,500 Btu/scf
Pressure Required at TODD interface	20 psig (regulated by others)

Burner Management System Design

Insurance Guidelines	NFPA85 for single burner
Type of Operation	Automatic, non-recycling

Miscellaneous Data

Burner Location	Outdoors, non-hazardous
Plant Elevation	Less than 1,000 ft asl
Power Supply Available	120V/1Ph/60Hz 480V/3Ph/60Hz
Valve Train Construction	ANSI B31.1 code
Instrument Air	40 - 80 psig
Surface Preparation and Painting	Manufacturer standard
Quality Control	Manufacturer standard



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B. Burner Specifications

Number of Burners per Boiler	One (1)
Gas Firing per Burner - Natural Gas	
Heat Input	174 mmbtu/hr
Turndown	10 to 1
Pressure at Burner	10 psig
Excess Air at MCR	15%
Recycle Flue Gas Rate at MCR	15%
Draft Loss at MCR	7.5 in wg
Type	Variflame
Gas Firing per Burner - Propane Gas	
Heat Input	169 mmbtu/hr
Turndown	7-8 to 1
Pressure at Burner	4 psig
Excess Air at MCR	15%
Recycle Flue Gas Rate at MCR	23%
Draft Loss at MCR	9.0 in wg
Type	Variflame

C. Gas Electric Ignitor Specifications

Number of Ignitors per Boiler	One (1)
Gas Firing	
Heat Input	4 mmbtu/hr
Pressure at Burner	5 psig (approx.)
Purge air source	Plant air or instrument air
Purge air flow	8 to 10 scfm
Purge air pressure	8 in wg above windbox pressure
Model	TODD Stabelite

4.4 Todd's Scope Of Supply

A. Engineering Services

TODD will provide complete engineering and design for all TODD furnished equipment and materials specified in Section 3.D., including a comprehensive Instruction Manual complete with data sheets, TODD drawings, vendor drawings, parts list and operating instructions.

As part of the "system" solution for supplying a burner with remote fan for optimum performance, TODD will provide air flow distribution studies of the windbox and upstream combustion air duct, using our in-house CoolFlow™ physical modeling facilities. An approximate 8 to 1 scaled version of the combustion air system using plexiglas is built. These physical model studies determine the size and location of baffles to be provided, in order to assure balanced air flow to the burner, and will result in reduced system draft losses, reduced stack emissions at lower excess oxygen levels, and greater boiler efficiency. A drawing will be provided indicating the size and location of baffles.



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B. Project Services

TODD will provide a submittal consisting of full size blue prints of packaged burner general arrangement drawing, valve train schematics, electrical schematics, and bill of materials for approval and six (6) copies of TODD's Instruction Manual.

C. Jobsite Services

TODD can provide field advisory services during installation, and technical assistance services during initial start-up including operator training, at the per diem rate in effect at time of request, in accordance with our Service Terms. No jobsite services are included in our base bid. VEO has offered a daily per diem rate for field services.

D. Equipment and Materials

The following is an itemization of all components supplied by TODD.

1. One (1) windbox, non-insulated, will be fabricated of ASTM A-36 carbon steel plate, and complete with required structural framing, support legs, access door, lifting lugs, and baffles for balancing air flow distribution to the burner. The windbox will be provided with an inlet opening for connection to the combustion air duct. The windbox will be painted with manufacturer standard. The windbox will be seal welded to the boiler front plate.
2. One (1) TODD burner, fabricated using TODD standard stainless and mild steel components, complete with the following sub-assemblies, mounted in the windbox:
 - One (1) dual air register assembly
 - One (1) burner front hub assembly, complete with two (2) observation ports, and one (1) flame scanner swivel mount
 - One swirling diffuser assembly
 - One (1) gas burner (standard multi-poker design) assembly
 - One (1) ignition assembly complete with gas-electric ignitor, high tension cable and connector and high voltage transformer mounted in a NEMA 4 X SS enclosure
 - One (1) burner guide ring to be welded on the boiler front plate to align the burner to the burner opening (shipped loose)
 - One (1) throat former for installation of boiler front wall refractory at the burner opening (shipped loose)
3. The following valve trains will be shop mounted on the windbox to the maximum extent feasible, and will include valves, piping specialties and instrumentation as specified below. All electrical components will be wired to terminals to the windbox mounted burner control panel. Unless otherwise noted, the interface points are at the inlet of the supply manual shut-off valves and the discharge of vent, and drain valves.

Valve trains will be fabricated in accordance with ANSI B31.1 code. Valve trains will be painted with manufacturer standard.



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One (1) ignitor gas pilot train, consisting of:

- 1- 1" Supply manual shut-off valve, carbon steel body, SW
- 1- 1" Gas strainer with basket "Y" type, carbon steel body, SW
- 1- 1" Gas pressure regulating valve, carbon steel body, 150# RF
- 2- 1" Automatic safety shut-off valves, carbon steel body, SW
- 1- 3/4" Automatic safety vent valve, carbon steel body, SW
- 1- 1" Ignitor manual shut-off valve, carbon steel body, SW
- 1- Ignitor pressure gauge, 4 in dial (Ashcroft), with isolation valve
- 1- Ignitor flexible hose, stainless steel body

One (1) main fuel gas train, consisting of:

- 1- Supply pressure gauge, 4 in dial (Ashcroft), with isolation valve
- 1- Low gas pressure switch (Ashcroft)
- 1- 4" Automatic safety shut-off valve, with proof of closure switch, carbon steel body, 150# RF
- 1- 2" Automatic safety vent valve, carbon steel body, SW
- 1- 2" Manual vent valve, locked in the open position, carbon steel body, SW
- 1- 4" Automatic safety shut-off valve, with proof of closure switch, carbon steel body, 150# RF
- 1- High gas pressure switch (Ashcroft)
- 2- Leak test connections with isolation valves
- 1- Provision for gas flow control valve - see item 3.D.7
- 1- 4" Burner manual shut-off valve, carbon steel body, 150# RF
- 1- Burner pressure gauge, 4 in dial (Ashcroft), with isolation valve

4. The following miscellaneous field switches will be mounted on the windbox:

- One (1) combustion low air flow switch (Dwyer)
- One (1) purge low air flow switch (Dwyer)
- One (1) boiler drum steam high pressure switch (Ashcroft)
- One (1) furnace high pressure switch (Dwyer)
- One (1) low instrument air pressure switch (Ashcroft)

5. One (1) VEO burner management and combustion control system, as outlined in the project specification and the VEO proposed bill of material located on page 22 of this proposal.



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Section 5.0

Burner Emission Guarantee

- A. The following performance guarantees will be extended from twenty-five (25) to one hundred (100) percent of boiler load, provided that the system is operated at steady state conditions, in accordance with the Burner Design Basis and Specifications in Section 2:

- Maximum emission levels on natural gas or propane gas, with all concentrations corrected to 3% oxygen, on a dry basis:

NOx	0.036 lb/mmbtu
CO	0.037 lb/mmbtu
VOC	0.0017 lb/mmbtu
SOx	0.006 lb/mmbtu
PM/PM10	0.0039 lb/mmbtu

- The burners will maintain a stable flame with no deleterious impingement over the entire boiler load range
- B. All performance specifications stated throughout this proposal are intended to show probable operating results only which cannot be guaranteed except as expressly stated in the guarantee clause 4.A). Packaged boilers shall be designed and operate with the inboard row of furnace tubes forming a gas tight wall baffle to prevent the short circuiting of furnace gases to the boiler gas outlet, for performance guarantees to be in effect.
- C. Testing for performance guarantees shall be run within ninety (90) days after the equipment has been installed and operated. Others shall furnish all operating personnel and equipment for such tests. A John Zink trained service engineer shall fine tune the burner as required and observe the operation of auxiliary equipment to assure that performance guarantees will be met, prior to testing. John Zink's representative will have access to the records at all times and the tests will be conducted in a manner to ensure that the specified performance conditions are being maintained. John Zink will be supplied a complete copy of all test results and data.
- D. The equipment shall be considered accepted if tests show that the guarantees have been fulfilled, or if others fail to have the equipment tested within the specified period. In case of the failure to meet the guarantees, John Zink reserves the right to change or replace, on a straight time basis, the equipment furnished so that the guaranteed performance will be obtained.

RECEIVED

November 21, 2005

NOV 22 2005

772.597.6500
Fax: 772.597.6210

Mr. Michael Halpin
Florida Department of Environmental Protection
Bureau of Air Regulation
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Re: Indiantown Cogeneration Plant
Permit No.: 0850102-008-AV

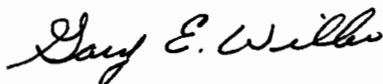
Dear Mr. Halpin:

We appreciate the Department's prompt review of our air construction permit application for the installation of 2 new auxiliary boilers. We have the following comments on the draft application:

1. The facility is exempt from the acid rain provisions of the Clean Air Act. We are a Qualifying Facility (QF). The specific exemption is per 40 CFR 72.6(b)(5). Therefore, please revise the *Regulatory Classification* on page 2 of 13 to indicate that the facility is not subject to acid rain.
2. Our current Title V permit includes (as part of EU ID No. 003) conditions that apply to "Temporary Package Boiler (unregulated)." It is our understanding that these conditions will remain valid. We may need to use a temporary package boiler during the replacement of the auxiliary boilers; if so, we will do so in compliance with Conditions B.56 *et. seq.* in our current Title V air operation permit.
3. In our application, we used an EPA AP-42 emission factor to estimate sulfur dioxide emissions. In doing so we overlooked the fact that the boiler manufacturer (Victory) supplied a sulfur dioxide emissions estimate of 0.006 lb/MMBtu in their proposal to us. We would like to revise the permit to reflect this higher sulfur dioxide emission rate. Therefore, please revise the application to reflect potential sulfur dioxide emissions of 2.1 lb/hr, 5.3 TPY in Sections 4.1 and 6 of the Technical Evaluation and Preliminary Determination, and in Condition 11 of the Emission Unit Specific Conditions.

Thank you for your time and consideration. Please contact Mr. Nicholas Laryea at your convenience at 772-597-6500 ext. 19.

Sincerely,



Gary E. Willer
General Manager

cc: Nicholas Laryea
Tracy Patterson
AJ. Jablonowski
File



Fax Message

Date: 12/1/2005

To: Mike Halpin **Facsimile No.:** 850-921-9333

Phone No.: 850-921-9519

Company: DEP **No. of Pages:** 3
(including this one)

City/State: Tallahassee / FL

From: Nicholas Langea **Phone No.:** (772) 597-6500 x19

Special Instructions: _____

If transmittal is incomplete or illegible, please call at (772) 597-6500 x10.

Message:

Mike, attached please find the affidavit of publication for the Indiantown Cogen public utility. I will send hard copies out today.

Thanks.

CONFIDENTIALITY NOTICE

The information contained in this telefacsimile message is privileged and confidential, and intended only for the use of the individual(s) and/or entity(ies) named above. If you are not the intended recipient, you are hereby notified that any unauthorized disclosure, copying, distribution or taking of any action in reliance on the contents of the telecopy materials is strictly prohibited and review by any individual other than the intended recipient shall not constitute waiver of the attorney/client privilege. If you have received this transmission in error, please immediately notify us by telephone (collect) to arrange for the return of the materials. Thank you.



SCRIPPS HOWARD

SCRIPPS TREASURE COAST

NEWSPAPERS

The Stuart News

The Port St. Lucie News

1939 S. Federal Highway, Stuart, FL 34994

AFFIDAVIT OF PUBLICATION

STATE OF FLORIDA

COUNTY OF MARTIN; COUNTY OF ST. LUCIE

Before the undersigned authority personally appeared, S. Darlene Mailing, who on oath says that she is Classified Inside Sales Manager of the Stuart News and the Port St. Lucie News, a daily newspaper published at Stuart in Martin County, Florida; that the attached copy of advertisement was published in the Stuart/Port St. Lucie News in the following issues below. Affiant further says that the said Stuart/Port St. Lucie News is a newspaper published in Stuart in said Martin County, Florida, with offices and paid circulation in Martin County and St. Lucie County, Florida, and that said newspapers have heretofore been continuously published in said Martin County, Florida, daily and distributed in Martin and St. Lucie County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that she has neither paid or promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper. The Stuart News has been entered as Periodical Matter at the Post Offices in Stuart, Martin County, Florida and Ft. Pierce, St. Lucie County, Florida and has been for a period of one year next preceding the first publication of the attached copy of advertisement.

<u>Customer</u>	<u>Ad Number</u>	<u>Pub Date</u>	<u>Copyline</u>	<u>PO #</u>
INDIANTOWN COGENERAT	1273949	11/25/2005	NOTICE OF INTENT	0850102-008-AC

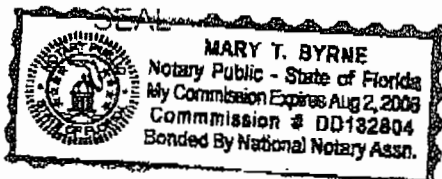
Subscribed and sworn to me before this date:

November 25, 2005

S. Darlene Mailing

Mary T Byrne

Notary Public



0119 MISCELLANEOUS U119 MISCELLANEOUS NOTICE NOTICE

PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION DRAFT Permit Project No. 0659/02-008-AC Indiantown Cogeneration Plant Martin County

The Department of Environmental Protection (Department) gives notice of its intent to issue an air construction permit to Indiantown Cogeneration, L.P. (IC) for the Indiantown Cogeneration Plant, located at 43903 SW Silver Fox Lane, Indiantown, Martin County. The permit is to install two identical auxiliary boilers rated at a combined 350 MMBtu/hr at the existing facility. The boilers will only fire natural gas or propane and be limited to a combined 5000 hours per year in operation. The applicant's mailing address is: Indiantown Cogeneration, L.P., P.O. Box 1759, Indiantown, FL 34956.

A Best Available Control Technology (BACT) determination was not required pursuant to Rule 62-212.400, F.A.C. and 40 C.F.R. 322.1 Prevention of Significant Deterioration (PSD). An air quality impact was not conducted or required.

The Department will issue the Final permit with the attached conditions unless a response received in accordance with the following procedures results in a different decision of significant change of terms or conditions.

The Department will accept written comments concerning the proposed permit issuance action for a period of 30 calendar days from the date of publication of this Public Notice of Intent to Issue an Agency Action. Written comments should be provided to the Department's Bureau of Air Regulation at 4600 Blair Stone Road, Mail Station 45504, Tallahassee, Florida 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in this proposed agency action, the Department shall revise the proposed permit and require, if applicable, another Public Notice.

A person whose substantial interests are affected by the proposed permit and decision may petition for an administrative proceeding (hearing) in accordance with Sections 120.569 and 120.57 of the Florida Statutes, S.F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department of Environmental Protection, 3300 Commonwealth Boulevard, Mail Station 435, Tallahassee, Florida 32399-3000. Petitions filed by a permit applicant or any of the parties listed below must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of the notice of intent. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S. must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of the notice of intent, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address listed above, at the time of filing. The failure of any person to file a petition within the applicable time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in the proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the permitting authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner, name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding, and an explanation of how the petitioner's substantial rights will be affected by the agency determination; (c) A statement of how and when the petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact, if there are none, the petition must so state; (e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle petitioner to relief; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and (g) A statement of the relief sought by the petitioner stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the permitting authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above as required by Rule 28-106.201.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the permitting authority's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by such final decision of the permitting authority, or the application have the right to petition to become a party to the proceeding in accordance with the requirements set forth above.

A complete project file is available for public inspection during normal business hours, 9:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays.

Department of Environmental Protection Bureau of Air Regulation 4600 Blair Stone Road, Mail Station 45504 Tallahassee, Florida 32399-2400 Telephone: 904/488-6114 Fax: 904/822-6970

Department of Environmental Protection Southeast District Office 1400 North Congress Avenue West Palm Beach, Florida 33416-5425 Telephone: 561/881-6000 Fax: 561/681-5755

The complete project file includes the DRAFT Permit Renewal application for renewal, and the information submitted by the responsible official, exclusive of confidential records under Section 403.11, F.S. Interested persons may contact the Administrator, Non-Permitting Section, 411 South Magnolia Drive, Suite A, Tallahassee, Florida 32301, or call 904/488-6114 for additional information on the technical evaluation and Preliminary Determination as well as the Draft Permit. The Draft Permit may be viewed at <http://www.dep.state.fl.us/Air/permits/construction.htm>

Public Notice 25, 2005 273943

Indiantown Cogeneration, L.P.

Indiantown Cogeneration, L.P.
P.O. Box 1799
13303 SW Silver Fox Lane
Indiantown, FL 34956

772.597.6500
Fax: 772.597.6210

RECEIVED

DEC 05 2005

BUREAU OF AIR REGULATION

December 01, 2005

Barbara Friday
Department of Environmental Protection
Bureau of Air Regulations
2600 Blair Stone Road, Mail Station # 5505
Tallahassee, FL 32399-2400

VIA FEDERAL EXPRESS

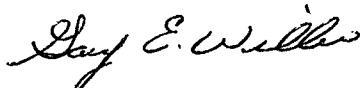
Re: INTENT TO ISSUE AIR CONSTRUCTION PERMIT
PERMIT # 0850102-008-AV (INDIANTOWN COGENERATION PLANT)

Dear Barbara:

Pursuant to the requirement of Chapter 50, Florida Statutes, attached please find proof of publication, i.e., newspaper affidavit for "Public Notice of Intent to Issue Air Construction Permit" in the Stuart News on November 25th, 2005.

If you have any questions, please contact Nick Laryea at 772-597-6500, extension 19.

Sincerely,



Gary E. Willer
General Manager

Enclosure

cc: N Laryea
M. Halpin
T. Patterson
File



SCRIPPS HOWARD

SCRIPPS TREASURE COAST NEWSPAPERS

The Stuart News
The Port St. Lucie News

1939 S. Federal Highway, Stuart, FL 34994

AFFIDAVIT OF PUBLICATION

STATE OF FLORIDA
COUNTY OF MARTIN; COUNTY OF ST. LUCIE

Before the undersigned authority personally appeared, S. Darlene Mailing, who on oath says that she is Classified Inside Sales Manager of the Stuart News and the Port St. Lucie News, a daily newspaper published at Stuart in Martin County, Florida; that the attached copy of advertisement was published in the Stuart/Port St. Lucie News in the following issues below. Affiant further says that the said Stuart/Port St. Lucie News is a newspaper published in Stuart in said Martin County, Florida, with offices and paid circulation in Martin County and St. Lucie County, Florida, and that said newspapers have heretofore been continuously published in said Martin County, Florida, daily and distributed in Martin and St. Lucie County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that she has neither paid or promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper. The Stuart News has been entered as Periodical Matter at the Post Offices in Stuart, Martin County, Florida and Ft. Pierce, St. Lucie County, Florida and has been for a period of one year next preceding the first publication of the attached copy of advertisement.

<u>Customer</u>	<u>Ad Number</u>	<u>Pub Date</u>	<u>Copyline</u>	<u>PO #</u>
INDIANTOWN COGENERAT	1273949	11/25/2005	NOTICE OF INTENT	0850102-008-AC

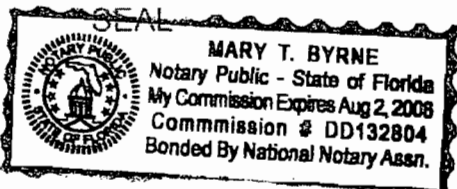
Subscribed and sworn to me before this date:

November 25, 2005

S. Darlene Mailing

Mary T Byrne

Notary Public



**0119 MISCELLANEOUS UT19 MISCELLANEOUS
NOTICE NOTICE**

**PUBLIC NOTICE OF INTENT TO ISSUE
AIR CONSTRUCTION PERMIT
STATE OF FLORIDA
DEPARTMENT OF
ENVIRONMENTAL PROTECTION
DRAFT Permit Project No: 0850102-008-AC
Indiantown Cogeneration Plant
Martin County**

The Department of Environmental Protection (Department) gives notice of its intent to issue air construction permit to Indiantown Cogeneration, L.P. for the Indiantown Cogeneration Plant located at 13303 SW Silver Fox Lane, Indiantown, Martin County. The permit is to install two identical auxiliary boilers rated at a combined 350 MMBtu/hr at the existing facility. The boilers will only fire natural gas or propane and be limited to a combined 5000 hours per year of operation. The applicant's mailing address is: Indiantown Cogeneration, L.P., P.O. Box 1799, Indiantown, FL 34956.

A Best Available Control Technology (BACT) determination was not required pursuant to Rule 62-212.400, F.A.C. AND 40 CFR 52.21, Prevention of Significant Deterioration (PSD). An air quality impact was not conducted, or required.

The Department will issue the Final permit with the attached conditions unless a response received in accordance with the following procedures results in a different decision of significant change of terms or conditions.

The Department will accept written comments concerning the proposed permit issuance action for a period of 14 (fourteen) days from the date of publication of this Public Notice of Intent to Issue Air Construction Permit. Written comments should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in this proposed agency action, the Department shall revise the proposed permit and require, if applicable, another Public Notice.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Sections 120.569 and 120.57 of the Florida Statutes (F.S.). The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of the notice of intent. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of the notice of intent, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the applicable time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts upon which the permitting authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address and telephone number of the petitioner, name, address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding, and an explanation of how petitioner's substantial rights will be affected by the agency determination; (c) A statement of how and when the petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so state; (e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle petitioner to relief; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the permitting authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106-301.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the permitting authority's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the permitting authority on the application have the right to petition to become a party to the proceeding in accordance with the requirements set forth above.

A complete project file is available for public inspection during normal business hours (8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays) at:

Department of Environmental Protection
Bureau of Air Regulation
111 South Magnolia Drive, Suite 4
Tallahassee, Florida 32301
Telephone: 850/488-0114
Fax: 850/922-6979

Department of Environmental Protection
Southeast District Office
400 North Congress Avenue
West Palm Beach, Florida 33416-5425
Telephone: 561/681-6600
Fax: 561/681-6755

The complete project file includes the DRAFT Permit Renewal, the application for renewal, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Administrator, North Permitting Section, at 111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32301, or call 850/488-0114, for additional information. The Technical Evaluation and Preliminary Determination, as well as the Draft Permit, may be viewed at <http://www.dep.state.fl.us/air/permitting/construction.htm>.

Publish: November 25, 2005. 1273949