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Scott K. Ney
Director, Facility Operations

**Community Unit
School District 304**

TO: Dr. Dean Romano

FROM: Scott Ney

RE: Request for Purchase – Replacement of Steam Boiler Burner for Geneva High School

DATE: October 17, 2018

Requesting approval from Geneva CUSD #304 School Board to purchase a new Steam Boiler Burner for Geneva High School. The current Kewanee Burner is failing and the parts are now obsolete. I am recommending replacement of the current 250hp with the higher efficiency Limpsfield LCN 30 Burner with alternates for a total cost of \$39,714.50.

Innovative Boiler Systems, Inc
1137 Kinsie Court, Naperville, IL 60540
Phone: 630-717-8752 sales@innovativeboiler.com

Geneva Community S.D. 304
227 N. Fourth Street
Geneva, IL 60134

October 16, 2018

RE: 250hp Kewanee burner replacement

I am pleased to offer, for your consideration, the following equipment for the above referenced project.

The following performance expectations are based on using a split gas head design firing on Natural Gas. The split head requires a minimum gas pressure of 1 PSI after the gas train.

Natural gas firing performance expectations:

- O₂ 3%
- CO₂ 10%
- CO Sub10ppm
- Turndown 6:1

Limpsfield LCN 30

Designed maximum firing rate of 10 MMBTU/hr
To fire Natural Gas
Pilot gas ignition system (Standard)
Split Head gas injection
Stainless steel diffuser and blast tube tip
Aluminum gas control valve and Autoflame servo motor
Autoflame standard UV sensor
Air damper assembly and Autoflame servo motor

Control Panel - Burner Mounted

Pre wired with Autoflame MM Mini Mk8
Burner on/off push button
Natural Gas select switch indication lamp
Servo voltage transformer
Output to starter for combustion air fan

Combustion Air Fan

For furnace pressure up to 3"wc / 7.5mbar (need to confirm)
Finished to match burner

460/3/60

Equipped with UL/UR Approved Motor

Assumed 7.5kW/10HP motor

Transitional Ductwork - May be built into fan

To connect combustion air fan to burner inlet

Finished to match burner

Burner/Boiler Spacer Plate

To mount Limpsfield burner to boiler

Finished to match burner

Ancillary Equipment

Autoflame air pressure sensor MM80013

Engineering

Installation Drawings

Control panel wiring diagrams

O & M Manuals

Net Price

\$24,849.50

(Less Shipping and Packing)

Option 1

Combustion Air Inlet Silencer

Reduces noise breakout to sub 85 dB @ 1m

Finished to match burner

Net Price

\$1,575.00

Option 2

Full Mk8 12.1" Touchscreen in Lieu of Mini Mk8

First out annunciation

Multi-touch capacitive touchscreen

Net Price

\$3,790.00

Equipment Adders:

Gas Train (pilot and main train) – reusing existing Maxitrol 210 main regulator

The required gas pressure to the burner is 1 PSI

3"npt Siemens VGD40 double-valve main gas valve (includes vent valve mounting plate)

(2) Siemens SKP15 SSOV actuators w/POC switch

Siemens High and low M/R gas pressure switches

2" Asco S262 N/O vent valve

½"npt Maxitrol 325 pilot gas regulator

(2) ½" Asco 8215 120v N/C pilot gas solenoid valves

½"npt Asco 8214 120v N/O pilot gas vent valve

Net Price:

\$4,500.00

Refractory Burner Mounting Plug

New Refractory Burner Mounting Plug complete with Stainless Steel anchors welded to metal plate and refractory burner throat using Ram plastic. (Field Dimensions Required)

Net Price:

\$3,500.00

PRICE:

All prices are in U.S. Dollars. Inland freight, handling & forwarding, insurance not included in price. Above pricing does not include any tax or freight charges.

FREIGHT:

FOB factory, Prepay and add
Estimate freight charge: ~\$1,500.00

TERMS:

25% due with approved purchase order
75% due NET 30 days from shipping notification

DELIVERY:

Burner Lead Time: ~8-10 weeks after receipt of purchase order
(advise if needed sooner)

This Quotation is valid for 60 days

Sincerely,
Mark Hellard
Innovative Boiler Systems, Inc
Phone: 331-212-1086
Fax: 630-428-5657
Email: mhellard@innovativeboiler.com