

WEST COUNTY POWER PARTNERS, LLC

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Florida Power & Light Company
West County Energy Center – Unit 3
Permit No. – PSD-FL-396
DEP File No. – 0990646-002-AC

WCPP Project 161354
WCPP Files 14.0100/32.0440
WCPP3-2011-TP-354
April 18, 2011

E-mail, Express Mail

Ms. Elizabeth Walker
Florida Department of Environmental Protection
Division of Air Resource Management
Bureau of Air Regulation
2600 Blair Stone Road, MS 5500
Tallahassee, FL 32399-2400

RECEIVED
APR 19 2011
BUREAU OF
AIR REGULATION

Subject: West County Unit #3 Ammonia Flow Meter Calibrations

Dear Ms. Walker:

On behalf of Florida Power & Light Company (FPL) and its Designated Representative, Sheila M. Wilkinson, the West County Power Partners, LLC (WCPP), EPC Contractor for construction of the new combined cycle generating unit at the FPL West County Energy Center – Unit 3, is submitting this notification in accordance with the regulations cited below.

This correspondence is to serve as notification to the Department, in accordance with the Florida Statutes, Chapter 62-4 and 62-212 of the Florida Administrative Code [Rules 62-4.070(3) and 62-212.400 (BACT), F.A.C.]. FPL is providing this notification of the ammonia flow meter calibrations for Unit 3 (CT – 3A, 3B, and 3C).

In accordance with these conditions, West County Power Partners is hereby submitting the ammonia flow meter calibrations and the corresponding transmitter configuration reports. Below are the individual flow meter calibration and transmitter configuration reports for each CT.

- 1) CT 3A -- Mass Flowmeter Calibration Serial ID: 14137988
Transmitter Configuration Serial ID: 3124072
- 2) CT 3B -- Mass Flowmeter Calibration Serial ID: 14138359
Transmitter Configuration Serial ID: 3124069
- 3) CT 3C -- Mass Flowmeter Calibration Serial ID: 14139120
Transmitter Configuration Serial ID: 3124073

Attached are the corresponding documents for the ammonia flow calibrations for Unit #3.

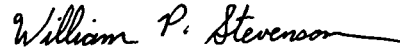
Florida Power & Light Company
West County Energy Center – Unit 3

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If you have any questions about this notification or the attachment, please contact Terry Apple at (913) 458-7220 or John Rachal at (561) 784-8048.

Very truly yours,

WEST COUNTY POWER PARTNERS, LLC



FOR

Mike Perkins
Project Executive

WS:hs

cc: Dave McNeal, USEPA Air, Pesticides and Toxics Management (hard copy)
Carlos Martinez, USEPA Clean Air Markets Division
Leigh Pell, FDEP Air Resource Management
Lee Hoefert, FDEP Southeast District
Mike Halpin, FDEP Sitting Coordination Office
Syed Arif, FDEP, Administrator
Kimberly Ousdahl, ACF/JB
Sheila M. Wilkinson, FPL Designated Representative
Laxmana Tallam, PBC Health Department (hard copy)
Jim Stormer, PBC Health Department
Tom Tittle, PBC Health Department
Tom Young, FPL Construction Project General Manager
Carine Bullock, FPL Plant General Manager
David Fawcett, FPL West County Environmental Leader
Rachel Godino, FPL Environmental Project Manager
Audrey Rotrock, FPL Environmental Services
Robert Bennett, FPL Project Engineer
Mike Perkins, WCPP Project Executive
John Rachal, WCPP Senior Project Manger
Greg Hines, WCPP Site Environmental Manager
Terry Apple, WCPP Project Manager/ Project File
William Stevenson, WCPP Environmental Specialist


Micro Motion, Inc.

Mass Flowmeter Calibration Certificate

14137988

Product Code	Serial ID	Order ID	Line	Item	Customer Tag
R025S	14137988				

Process

Process ID: 7.19284709 
Process Time: 2009.05.18 10:07:34
Process Stand: TSM1E@SSCC
Stand Uncertainty: +/-0.03%
Fluid: H2O
100% Rate: 22.6796 KG/MIN
Pickoff: 1
100% P/T: 67.66 PSIG/23.1 C

Results

Status: PASS
D1: 0
D2: 1
K1: 4487.55
K2: 4710.033
DT: 4.34
FD: 0
DTG: 0
DFQ1: 0
DFQ2: 0
FlowCal: 39.3354.65
FFQ: 0
FTG: 0
DensCal: 04488047104.34
FCF: 39.335
FT: 4.65

E. SALAS
Technician

Product Code	Serial ID	Order ID	Line	Item	Customer Tag
R025S319NCAAEZZZZ	14137988	10065453	1	3	FE-4030
1700I111ABAEZZZ	3124072	10065453	2	3	FIT-4030
PUCK700	08996014				

Process

Process ID: 1.24866201
 Process Time: 2009.06.18 9:37:49
 Process Stand: SSCB-CONFIG1@SSCB



Sensor

D1: 0
 D2: 1
 DFQ1: 0
 DFQ2: 0
 DT: 4.34
 DTG: 0
 Density Meter Factor: 1
 Density Press Comp Factor: 0
 FCF: 39.335
 FD: 0
 FFQ: 0
 FT: 4.65
 FTG: 0
 Flow Cal Pressure PSI: 0
 Flow Press Comp Factor: 0
 K1: 4487.55
 K2: 4710.033
 Mass Flow Meter Factor: 1
 Temperature Cal Factor: 1.00000T.00000
 Volume Flow Meter Factor: 1

Units

Special Volume Base Unit: LITER
 Special Volume Conv Factor: 1
 Special Volume Flow Text: NONE
 Special Volume Time Unit: SEC
 Special Volume Total Text: NONE
 Temperature Unit: DEGC
 Volume Flow Unit: L/MIN

Assignments

Event 1 Variable: DENSITY
 Event 2 Variable: DENSITY
 Frequency Scaling Method: FREQUENCY/FLOW
 Frequency Variable: MASS FLOW RATE
 mA1 Variable: MASS FLOW RATE

Ranges

Event 1 Setpoint: 0
 Event 1 Type: LOW ALARM
 Event 2 Setpoint: 0
 Event 2 Type: LOW ALARM
 Frequency Active State: ACTIVE HIGH
 Frequency Hertz: 1000
 Frequency Pulses/Unit: 2645.549
 Frequency Rate: 22.6796
 Frequency Units/Pulse: 0.0003779933
 mA1 LRV: 0
 mA1 URV: 22.6796

Units

Density Unit: G/CUCM
 Mass Flow Unit: KG/MIN
 Pressure Unit: PSI
 Special Mass Base Unit: GRAM
 Special Mass Conv Factor: 1
 Special Mass Flow Text: NONE
 Special Mass Time Unit: SEC
 Special Mass Total Text: NONE

Faults

Frequency Fault Behavior: DOWNSCALE
 Frequency Fault Value: 15000
 RS485 Fault Behavior: NONE

Faults

mA1 Fault Behavior: DOWNSCALE

mA1 Fault Value: 2

Other

Calibration Process ID: 7.19284709

Core Software Rev: 28

Density Cutoff: 0.2

Density Damping: 1.6

Density High Limit: 5

Density Low Limit: 0

Direction: FORWARD

Fault Dwell Time: 0

Feature Key: 2

Flow Damping: 0.8

HART Device ID: 9111575

Mass Flow Cutoff: 0.06479999

Pressure Comp Line Pressure: 0

Pressure Compensation State: OFF

RS485 Baud: 1200

RS485 Parity: ODD

RS485 Protocol: HART

Slug Duration: 0

Tag: FIT-4030

Temperature Damping: 4.8

Transmitter Software Rev: 52

Volume Flow Cutoff: 0.06479999

Micro Motion, Inc.**Mass Flowmeter Calibration Certificate****14138559**

Product Code	Serial ID	Order ID	Line	Item	Customer Tag
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R025S

14138359

**Process**

Process ID: 7.19284830

Process Time: 2009.05.19 16:56:48

Process Stand: TSM1E@SSCC

Stand Uncertainty: +/-0.03%

Fluid: H2O

100% Rate: 22.6796 KG/MIN

Pickoff: 1

100% P/T: 55.41 PSIG/23 C

Results

Status: PASS

D1: 0

D2: 1

K1: 4465.623

K2: 4687.463

DT: 4.34

ED: 0

DTG: 0

DFQ1: 0

DFQ2: 0

FlowCal: 39.2574.65

FFQ: 0




FTG: 0

DensCal: 04466046874.34

FCF: 39.257

FT: 4.65

A. LOYA
Technician

Product Code	Serial ID	Order ID	Line	Item	Customer Tag	
R025S319NCAAEZZZZ	14138359		10065453	1	2	FE-4030
1700I111ABAEZZZZ	3124069		10065453	2	2	FIT-4030
PUCK700	08996033					

Process

Process ID:1.24865246
 Process Time:2009.06.18 1:54:18
 Process Stand:SSCB-CONFIG1@SSCB



Sensor

Units

D1:0 Special Volume Base Unit:LITER
 D2:1 Special Volume Conv Factor:1
 DFQ1:0 Special Volume Flow Text:NONE
 DFQ2:0 Special Volume Time Unit:SEC
 DT:4.34 Special Volume Total Text:NONE
 DTG:0 Temperature Unit:DEGC
 Density Meter Factor:1 Volume Flow Unit:L/MIN
 Density Press Comp Factor:0

FCF:39.257
 FD:0
 FFQ:0
 FT:4.65
 FTG:0

Flow Cal Pressure PSI:0
 Flow Press Comp Factor:0

K1:4465.623
 K2:4687.463

Mass Flow Meter Factor:1
 Temperature Cal Factor:1.00000T.00000
 Volume Flow Meter Factor:1

Assignments

Event 1 Variable:DENSITY
 Event 2 Variable:DENSITY
 Frequency Scaling Method:FREQUENCY/FLOW
 Frequency Variable:MASS FLOW RATE
 mA1 Variable:MASS FLOW RATE

Ranges

Event 1 Setpoint:0
 Event 1 Type:LOW ALARM
 Event 2 Setpoint:0
 Event 2 Type:LOW ALARM
 Frequency Active State:ACTIVE LOW
 Frequency Hertz:1000
 Frequency Pulses/Unit:2645.549
 Frequency Rate:22.6796
 Frequency Units/Pulse:0.0003779933
 mA1 LRV:0
 mA1 URV:22.6796

Units

Density Unit:G/CUCM
 Mass Flow Unit:KG/MIN
 Pressure Unit:PSI
 Special Mass Base Unit:GRAM
 Special Mass Conv Factor:1
 Special Mass Flow Text:NONE
 Special Mass Time Unit:SEC
 Special Mass Total Text:NONE

Faults

Frequency Fault Behavior:DOWNSCALE
 Frequency Fault Value:15000
 RS485 Fault Behavior:NONE

Faults

mA1 Fault Behavior: DOWNSCALE

mA1 Fault Value: 2

Other

Calibration Process ID: 7.19284830

Core Software Rev: 28

Density Cutoff: 0.2

Density Damping: 1.6

Density High Limit: 5

Density Low Limit: 0

Direction: FORWARD

Fault Dwell Time: 0

Feature Key: 2

Flow Damping: 0.8

HART Device ID: 9111433

Mass Flow Cutoff: 0.06479999

Pressure Comp Line Pressure: 0

Pressure Compensation State: OFF

RS485 Baud: 1200

RS485 Parity: ODD

RS485 Protocol: HART

Slug Duration: 0

Tag: FIT-4030


Temperature Damping: 4.8

Transmitter Software Rev: 52

Volume Flow Cutoff: 0.06479999

Micro Motion, Inc.**Mass Flowmeter Calibration Certificate****14139120**

Product Code	Serial ID	Order ID	Line	Item	Customer Tag
R025S	14139120				

ProcessProcess ID: 7.19285368 

Process Time: 2009.05.29 11:55:26

Process Stand: TSM1E@SSCC

Stand Uncertainty: +/-0.03%

Fluid: H2O

100% Rate: 22.6796 KG/MIN

Pickoff: 1

100% P/T: 68.2 PSIG/23.6 C

Results

Status: PASS

D1: 0

D2: 1

K1: 4474.033

K2: 4694.835

DT: 4.34

FD: 0

DTG: 0

DFQ1: 0

DFQ2: 0

FlowCal: 39.6034.65

FFQ: 0

FTG: 0

DensCal: 04474046954.34

FCF: 39.603

FT: 4.65

J. ESTRADA
Technician

Micro Motion, Inc.

Transmitter Configuration Report

31240,3

Product Code	Serial ID	Order ID	Line	Item	Customer Tag
R025S319NCAAEZZZZ	14139120	10065453	1	1	FE-4030
1700I11ABAEZZZ	3124073	10065453	2	1	FIT-4030
PUCK700	08996035				

Process

Process ID:1.24866053
 Process Time:2009.06.18 8:24:58
 Process Stand:SSCB-CONFIG1@SSCB



Sensor

Units

D1:0
 D2:1
 DFQ1:0
 DFQ2:0
 DT:4.34
 DTG:0
 Density Meter Factor:1
 Density Press Comp Factor:0
 FCF:39.603
 FD:0
 FFQ:0
 FT:4.65
 FTG:0
 Flow Cal Pressure PSI:0
 Flow Press Comp Factor:0
 K1:4474.033
 K2:4694.835
 Mass Flow Meter Factor:1
 Temperature Cal Factor:1.00000T.00000
 Volume Flow Meter Factor:1

Special Volume Base Unit:LITER
 Special Volume Conv Factor:1
 Special Volume Flow Text:NONE
 Special Volume Time Unit:SEC
 Special Volume Total Text:NONE
 Temperature Unit:DEGC
 Volume Flow Unit:L/MIN

Assignments

Event 1 Variable:DENSITY
 Event 2 Variable:DENSITY
 Frequency Scaling Method:FREQUENCY/FLOW
 Frequency Variable:MASS FLOW RATE
 mA1 Variable:MASS FLOW RATE

Ranges

Event 1 Setpoint:0
 Event 1 Type:LOW ALARM
 Event 2 Setpoint:0
 Event 2 Type:LOW ALARM
 Frequency Active State:ACTIVE HIGH
 Frequency Hertz:1000
 Frequency Pulses/Unit:2645.549
 Frequency Rate:22.6796
 Frequency Units/Pulse:0.0003779933
 mA1 LRV:0
 mA1 URV:22.6796

Units

Density Unit:G/CUCM
 Mass Flow Unit:KG/MIN
 Pressure Unit:PSI
 Special Mass Base Unit:GRAM
 Special Mass Conv Factor:1
 Special Mass Flow Text:NONE
 Special Mass Time Unit:SEC
 Special Mass Total Text:NONE

Faults

Frequency Fault Behavior:DOWNSCALE
 Frequency Fault Value:15000
 RS485 Fault Behavior:NONE

Faults

mAI Fault Behavior: DOWNSCALE
mAI Fault Value: 2

Other

Calibration Process ID: 7.19285368
Core Software Rev: 28
Density Cutoff: 0.2
Density Damping: 1.6
Density High Limit: 5
Density Low Limit: 0
Direction: FORWARD
Fault Dwell Time: 0
Feature Key: 2
Flow Damping: 0.8
HART Device ID: 9111590
Mass Flow Cutoff: 0.06479999
Pressure Comp Line Pressure: 0
Pressure Compensation State: OFF
RS485 Baud: 1200
RS485 Parity: ODD
RS485 Protocol: HART
Slug Duration: 0
Tag: FIT-4030
Temperature Damping: 4.8
Transmitter Software Rev: 52
Volume Flow Cutoff: 0.06479999