

FULL COMPLIANCE EVALUATION (FCE) CHECKLIST

ARMS ID 0850102	OWNER/COMPANY Indiantown Cogeneration, LP.	SITE NAME Indiantown Cogeneration, LP.
<input checked="" type="checkbox"/> TITLE V	<input type="checkbox"/> SYNTHETIC MINOR (Emissions limited to $\geq 80\%$ and $< 100\%$ of major source thresholds)	DATE OF THIS FCE 09/05/2012 <input checked="" type="checkbox"/> ON-SITE ASSESSMENT <input type="checkbox"/> OFF-SITE ASSESSMENT (Explain reason for Off-Site in 'Comments')
<input type="checkbox"/> TITLE V MEGA-SITE*	<input type="checkbox"/> OTHER:	DATE OF PREVIOUS FCE: 06/30/2010

*Facility with a large number of complex emissions units. It is more reasonable to evaluate a Title V Mega-Site once every 3 years instead of once every 2 years.

REVIEW OF ALL REQUIRED REPORTS

	PERIODIC REPORTS	COMMENTS
<input checked="" type="checkbox"/> DONE <input type="checkbox"/> N/A	Annual Operating	
<input checked="" type="checkbox"/> DONE <input type="checkbox"/> N/A	Annual Statement of Compliance – Title V	
<input checked="" type="checkbox"/> DONE <input type="checkbox"/> N/A	Title V Semi-Annual Monitoring	
<input checked="" type="checkbox"/> DONE <input type="checkbox"/> N/A	Semi-Annual Compliance	
<input type="checkbox"/> DONE <input checked="" type="checkbox"/> N/A	Quarterly Compliance	
<input checked="" type="checkbox"/> DONE <input type="checkbox"/> N/A	Stack Test	
<input checked="" type="checkbox"/> DONE <input type="checkbox"/> N/A	Visible Emissions Test	
<input type="checkbox"/> DONE <input type="checkbox"/> N/A	Other:	

	CONTINUOUS EMISSION MONITOR REPORTS	COMMENTS
<input checked="" type="checkbox"/> DONE <input type="checkbox"/> N/A	Quarterly excess emissions	
<input type="checkbox"/> DONE <input type="checkbox"/> N/A	Semi-annual	
<input checked="" type="checkbox"/> DONE <input type="checkbox"/> N/A	RATA	
<input checked="" type="checkbox"/> DONE <input type="checkbox"/> N/A	CGA	
<input checked="" type="checkbox"/> DONE <input type="checkbox"/> N/A	Other : opacity audits	
<input type="checkbox"/> DONE <input type="checkbox"/> N/A	Other :	

OBSERVATIONS AND RECORDS REVIEW

	OBSERVATIONS AND RECORDS	COMMENTS
<input checked="" type="checkbox"/> DONE <input type="checkbox"/> N/A	Visible emission observation(s)	
<input checked="" type="checkbox"/> DONE <input type="checkbox"/> N/A	Review of facility records and logs	
<input checked="" type="checkbox"/> DONE <input type="checkbox"/> N/A	Assessment of process parameters (feed rates, process rates, raw material compositions, etc.)	
<input checked="" type="checkbox"/> DONE <input type="checkbox"/> N/A	Assessment of control equipment performance parameters (water flow rates, pressure drops, temperatures, ESP power levels, etc.)	
<input checked="" type="checkbox"/> DONE <input type="checkbox"/> N/A	Stack test observation(s)	

FULL COMPLIANCE EVALUATION (FCE) CHECKLIST

INSPECTION REPORTS (COMPLIANCE MONITORING REPORTS)

DATE OF INSPECTION	DATE OF INSPECTION REPORT	FULL/PARTIAL (F OR P)	INVESTIGATIVE (YES OR NO)	LOCATION OF INSPECTION REPORT REQUIRED ELEMENTS:					
				FACILITY INFO	APPLICABLE REQUIREMENTS	LIST OF EUS	ENFORCEMENT HISTORY	COMPLIANCE ACTIVITIES	FINDINGS & RECOMMENDATIONS
9/05/2012 INS2	9/06/2012	F	No	<input checked="" type="checkbox"/> EASIIR/ARMS/APDS	<input checked="" type="checkbox"/> EASIIR/ARMS/APDS	<input checked="" type="checkbox"/> EASIIR/ARMS/APDS	<input checked="" type="checkbox"/> EASIIR/ARMS/ACES	<input checked="" type="checkbox"/> EASIIR/ARMS/ACES	<input checked="" type="checkbox"/> EASIIR/ARMS/ACES
				<input checked="" type="checkbox"/> Paper Files	<input checked="" type="checkbox"/> Paper Files	<input checked="" type="checkbox"/> Paper Files	<input checked="" type="checkbox"/> Paper Files	<input checked="" type="checkbox"/> Paper Files	<input checked="" type="checkbox"/> Paper Files
8/9/2012 INS3/ RATA	8/10/2012	P	No	<input checked="" type="checkbox"/> EASIIR/ARMS/APDS	<input checked="" type="checkbox"/> EASIIR/ARMS/APDS	<input checked="" type="checkbox"/> EASIIR/ARMS/APDS	<input checked="" type="checkbox"/> EASIIR/ARMS/ACES	<input checked="" type="checkbox"/> EASIIR/ARMS/ACES	<input checked="" type="checkbox"/> EASIIR/ARMS/ACES
				<input checked="" type="checkbox"/> Paper Files	<input checked="" type="checkbox"/> Paper Files	<input checked="" type="checkbox"/> Paper Files	<input checked="" type="checkbox"/> Paper Files	<input checked="" type="checkbox"/> Paper Files	<input checked="" type="checkbox"/> Paper Files
8/24/2011 FCS NOTE IN FILE, ONLY ENTERED IN ARMS			No	<input checked="" type="checkbox"/> EASIIR/ARMS/APDS	<input checked="" type="checkbox"/> EASIIR/ARMS/APDS	<input checked="" type="checkbox"/> EASIIR/ARMS/APDS	<input checked="" type="checkbox"/> EASIIR/ARMS/ACES	<input checked="" type="checkbox"/> EASIIR/ARMS/ACES	<input checked="" type="checkbox"/> EASIIR/ARMS/ACES
				<input type="checkbox"/> Paper Files	<input type="checkbox"/> Paper Files	<input type="checkbox"/> Paper Files	<input type="checkbox"/> Paper Files	<input type="checkbox"/> Paper Files	<input type="checkbox"/> Paper Files

In-house tools with electronic report generation features: ARMS (Air Resource Management System) database; and EASIIR (Electronic Access System for Inspection Information Retrieval)

Internet-accessible information: ACES (Air Compliance and Enforcement Search); and APDS (Air Permit Documents Search)

COMMENTS

The facility reported on 3/12/2012 that the CGA Calibration Unit 1 that the system was erroneously truncating negative values during the zero checks. ICLP stated that the problem was caused by a programming error going back to the startup of the power plant. Corrections were made.

Inspections for the 10/1/2010- 9/30/2012 period, including witnessing tested includes: 9/5/12, 8/9/12, 7/25/12, 5/24/12, 3/20/12, 2/16/2012, 8/25/2011, 8/24/2011, 8/23/2011, 8/18/2011, 4/14/2011, 11/10/2010 and 10/19/2010

An example of a CEMS report for a randomly chosen date is included in this report.

Prepared by: Patricia Tampas

Date: 9/05/2012

Reviewed by: _____

Date: _____

Main Boiler Calibration Checks

Indiantown CoGen

Completed Calibration Checks for NOx ppm, 75-NOx ppm, SO2 ppm, 75-SO2 ppm, CO2%, 75-CO2%, Stack Temp, 75-Stack Temp, Stack Diff. Press. and 75- Diff. Press.

Date/Time	Parameter	Analyzer Scale	Test Level	Reference Value	Measured Value	Actual Drift	Allowable Drift	Instrument Span	Results
2/24/2012 6:00 AM	NOx ppm	Single	Zero	0.000 ppm	0.160 ppm	0.16 ppm	±12.5 ppm	250 ppm	Unit online; Passed
2/24/2012 6:00 AM	NOx ppm	Single	Span	236.000 ppm	236.740 ppm	0.74 ppm	±12.5 ppm	250 ppm	Unit online; Passed
2/24/2012 6:00 AM	75-NOx ppm	Single	Zero	0.000 ppm	0.160 ppm	0.16 ppm	±12.5 ppm	250 ppm	Unit online; Passed
2/24/2012 6:00 AM	75-NOx ppm	Single	Span	236.000 ppm	236.740 ppm	0.74 ppm	±12.5 ppm	250 ppm	Unit online; Passed
2/24/2012 6:00 AM	SO2 ppm	Single	Zero	0.000 ppm	-0.410 ppm	-0.41 ppm	±7 ppm	140 ppm	Unit online; Passed
2/24/2012 6:00 AM	SO2 ppm	Single	Span	124.000 ppm	127.080 ppm	3.08 ppm	±7 ppm	140 ppm	Unit online; Passed
2/24/2012 6:00 AM	75-SO2 ppm	Single	Zero	0.000 ppm	-0.410 ppm	-0.41 ppm	±10 ppm	140 ppm	Unit online; Passed
2/24/2012 6:00 AM	75-SO2 ppm	Single	Span	124.000 ppm	127.080 ppm	3.08 ppm	±10 ppm	140 ppm	Unit online; Passed
2/24/2012 6:00 AM	CO2%	Single	Zero	0.000%	-0.050%	-0.05%	±1%	20%	Unit online; Passed
2/24/2012 6:00 AM	CO2%	Single	Span	17.600%	17.380%	-0.22%	±1%	20%	Unit online; Passed
2/24/2012 6:00 AM	75-CO2%	Single	Zero	0.000%	-0.050%	-0.05%	±1%	20%	Unit online; Passed
2/24/2012 6:00 AM	75-CO2%	Single	Span	17.600%	17.380%	-0.22%	±1%	20%	Unit online; Passed
2/24/2012 6:00 AM	Stack Temp	Single	Zero	0.000 °F	1.100 °F	1.1 °F	±30 °F	500 °F	Unit online; Passed
2/24/2012 6:00 AM	Stack Temp	Single	Span	300.000 °F	305.200 °F	5.2 °F	±30 °F	500 °F	Unit online; Passed
2/24/2012 6:00 AM	75-Stack Temp	Single	Zero	0.000 °F	1.100 °F	1.1 °F	±30 °F	500 °F	Unit online; Passed
2/24/2012 6:00 AM	75-Stack Temp	Single	Span	300.000 °F	305.200 °F	5.2 °F	±30 °F	500 °F	Unit online; Passed
2/24/2012 6:00 AM	Stack Diff. Press.	Single	Zero	0.000 Inch	0.000 Inch	0 Inch	±0.12 Inch	2 Inch	Unit online; Passed
2/24/2012 6:00 AM	Stack Diff. Press.	Single	Span	1.400 Inch	1.338 Inch	-0.062 Inch	±0.12 Inch	2 Inch	Unit online; Passed
2/24/2012 6:00 AM	75- Diff. Press.	Single	Zero	0.000 Inch	0.000 Inch	0 Inch	±0.12 Inch	2 Inch	Unit online; Passed
2/24/2012 6:00 AM	75- Diff. Press.	Single	Span	1.400 Inch	1.338 Inch	-0.062 Inch	±0.12 Inch	2 Inch	Unit online; Passed

Indiantown CoGen
 Indiantown, FL
Daily Main Boiler Opacity Report
 February 24, 2012

Max Opacity Reading for the Day- 1.0
 Number of 6-Min Avgs Over 6% - 0.0

Hour	00-06	06-12	12-18	18-24	24-30	30-36	36-42	42-48	48-54	54-60
00	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.7	0.6
01	0.6	0.7	0.6	0.6	0.5	0.6	0.5	0.5	0.5	0.6
02	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
03	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6
04	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5
05	0.5	0.5	0.6	0.6	0.7	0.5	0.5	0.6	0.6	0.6
06	0.6	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5
07	0.5	0.5	0.6	0.7	0.6	0.5	0.5	0.5	0.5	0.5
08	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.6
09	0.6	0.5	0.6	0.6	0.5	0.6	0.5	0.5	0.5	0.6
10	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
11	0.6	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.6	0.6
12	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6
13	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
14	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6
15	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7
16	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.7
17	0.6	0.6	0.6	0.7	0.6	0.7	0.8	0.7	0.7	0.7
18	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9
19	0.9	0.8	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.7
20	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6
21	0.7	0.6	0.6	0.6	0.6	0.7	0.8	0.7	0.7	0.7
22	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.6	0.7	0.7
23	0.8	0.8	0.8	1.0	0.9	0.7	0.8	0.7	0.7	0.8

Indiantown CoGen
 Indiantown, FL
Daily Main Boiler Emissions Report
 February 9, 2012

24 Hr Block Avg Emission Limits
 NOx lbs/hr- 582.0 SO2 lbs/hr- 582.0

Hour	NOx ppm	NOx ppm @ 12% CO2	NOx lb/rmmBtu	NOx lbs	SO2 ppm	SO2 ppm @ 12% CO2	SO2 lb/rmmBtu	SO2 lbs	SO2 % Reduction	CO2%	CO2 tons	Stack Flow kscf	Process Status
00	84.9	127.4	0.2281	325.0	76.5	114.8	0.2866	407.48	78.5	8.0	146.2	32068	Normal
01	79.0	118.5	0.2122	300.6	91.9	137.9	0.3437	486.48	74.4	8.0	145.3	31869	Normal
02	77.8	115.3	0.2064	296.0	71.6	106.1	0.2643	378.94	80.2	8.1	147.1	31862	Normal
03	73.3	110.0	0.1969	278.8	77.8	116.7	0.2908	411.72	78.4	8.0	145.3	31860	Normal
04	71.8	105.1	0.1882	273.1	96.1	140.6	0.3506	508.64	74.0	8.2	148.9	31865	Normal
05	80.8	121.2	0.2171	309.6	100.3	150.5	0.3743	534.71	71.7	8.0	146.3	32095	Normal
06	91.5	130.7	0.2341	350.3	82.0	117.1	0.2922	436.71	78.3	8.4	153.5	32063	Normal
07	92.3	133.4	0.2390	351.2	75.1	108.6	0.2699	397.52	79.9	8.3	150.8	31867	Normal
08	91.6	134.0	0.2401	348.4	81.2	118.8	0.2963	429.74	78.0	8.2	148.9	31862	Normal
09	91.1	131.7	0.2359	346.4	85.9	124.2	0.3089	454.45	77.0	8.3	150.7	31850	Normal
10	91.4	132.1	0.2367	347.6	89.1	137.8	0.3437	504.22	74.5	8.3	150.7	31852	Normal
11	91.9	131.3	0.2351	349.6	93.8	134.0	0.3339	499.44	75.1	8.4	153.5	32055	Normal
12	92.1	131.6	0.2356	352.5	99.1	141.6	0.3534	524.44	73.7	8.4	152.5	31860	Normal
13	92.9	132.7	0.2377	353.4	92.8	132.6	0.3297	491.10	75.4	8.4	152.5	31860	Normal
14	95.7	136.7	0.2449	364.0	92.8	132.6	0.3297	491.10	75.4	8.4	152.5	31860	Normal
15	72.2	109.7	0.1880	274.7	70.5	107.1	0.2560	373.20	79.5	7.9	143.5	31869	Normal
16	73.2	118.7	0.1884	300.8	72.7	117.9	0.2602	415.68	75.4	7.4	145.2	34423	Normal
17	80.4	130.4	0.2095	330.6	97.2	157.6	0.3520	556.11	66.8	7.4	145.3	34444	Normal
18	119.7	179.6	0.3180	495.5	85.3	128.0	0.3158	491.25	76.0	8.0	158.1	34672	Normal
19	109.4	164.1	0.2939	449.9	79.4	119.1	0.2963	454.34	78.4	8.0	157.1	34449	Normal
20	102.0	151.1	0.2706	419.3	84.2	124.7	0.3103	481.62	77.6	8.1	159.0	34436	Normal
21	102.0	151.1	0.2706	419.2	84.2	124.7	0.3103	481.44	77.5	8.1	158.9	34423	Normal
22	102.5	151.9	0.2720	421.1	78.7	116.6	0.2908	449.89	78.9	8.1	158.9	34415	Normal
23	93.7	138.8	0.2486	384.9	77.7	115.1	0.2866	444.10	79.2	8.1	158.9	34410	Normal
Norm Ops Avg	89.7	132.8	0.2353	351.8	84.9	125.8	0.31	461.9	76	8.1	158.9	32762	
Total				8442.5				11084.7			3630	786289	