

Client: COVANTA
Project: _____

Date: Sept. 23/15
Location: DURHAM YORK
Contract #: _____

INSTRUMENT DETAILS

Tag #: 1-TE4748A System: #10LR Manufacturer: EMDRUS+HAUSER
Description: ECON. OUTLET TEMP.
Serial #: _____ Model #: _____ Calibrated Range: 0°C → 300°C
ENCL Rating: _____ Process Conn: _____ Other: _____

Continuity	Ground O.K.	Ambient Temp O.K.	SS Tag

	Temp Input	Actual Reading <u>HEAD.</u>	Measured <u>CONT. RM</u>
Test 1	<u>FROM TIC</u>	<u>166.5°C</u>	<u>166.6°C</u>
Test 2	<u>OUTLET FROM 744</u>	<u>0°C / 150°C / 300°C</u>	<u>-0.2°C / 150.1°C / 300.3°C</u>
Test 3			

TEST EQUIPMENT

Serial #: 1085020 Model #: 744 Calibration Date: Jan. 19/15
Description: _____ Manufacturer: FLUKE

TEST EQUIPMENT

Serial #: _____ Model #: _____ Calibration Date: _____
Description: _____ Manufacturer: _____

COMMENTS

STRIPPED SCREW FOUND ON PUCK. BLACK WIRE TO DCS STILL READING BUT CAN'T TIGHTEN DOWN.

Tested By:
Name: Rodger Herro
Signature: Rodger Herro

Date: Sept. 23/15
Company: Grace Inst.

Accepted By:
Name: _____
Signature: _____

Date: _____
Company: _____

Client: COVANTA
Project: _____

Date: Sept. 23/15
Location: DURHAM-YORK
Contract #: _____

INSTRUMENT DETAILS

Tag #: ITE4748B System: #1BLR. Manufacturer: ENDRUS-HAUSER
Description: ECON. OUTLET TEMP.
Serial #: _____ Model #: _____ Calibrated Range: 0^{cc} → 300°C
ENCL Rating: _____ Process Conn: _____ Other: _____

Continuity	Ground O.K.	Ambient Temp O.K.	SS Tag

	Temp Input	Actual Reading <u>HEAD</u>	Measured <u>CONT. RH</u>
Test 1	<u>FROM TIC</u>	<u>167.2°C</u>	<u>166.5°C</u>
Test 2	<u>OUTPUT FROM 744</u>	<u>0°C / 150°C / 300°C</u>	<u>-0.7°C / 149.6°C / 299.8°F</u>
Test 3			

TEST EQUIPMENT

Serial #: 1085020 Model #: 744 Calibration Date: Jan 19/15
Description: _____ Manufacturer: FLUKE

TEST EQUIPMENT

Serial #: _____ Model #: _____ Calibration Date: _____
Description: _____ Manufacturer: _____

COMMENTS

ONE LOOSE SCREW, cleaned leads, powdery deposit on signal leads to DCS

Tested By:
Name: Rodger Heyron
Signature: Rodger Heyron

Date: Sept. 23/15
Company: Grace Inst

Accepted By:
Name: _____
Signature: _____

Date: _____
Company: _____

Client: COVANTA
 Project: _____

 Date: Sept. 23/15
 Location: DURHAM-YORK
 Contract #: _____

INSTRUMENT DETAILS			
Tag #:	<u>2TE4748A</u>	System:	<u>#2 BLR</u>
Description:	<u>ECON. OUTLET TEMP.</u>		
Serial #:	_____	Model #:	_____
ENCL Rating:	_____	Process Conn:	_____
		Manufacturer:	<u>ENDRUS + HAUSER</u>
		Calibrated Range:	<u>0°C → 300°C</u>
		Other:	_____

Continuity	Ground O.K. <u>HEAD</u>	Ambient Temp O.K.	SS Tag

	Temp Input	Actual Reading <u>HEAD</u>	Measured <u>CONT. RPT</u>
Test 1	<u>FROM TIC</u>	<u>166.5 °C</u>	<u>166.6 °C</u>
Test 2	<u>OUTPUT FROM 744</u>	<u>0°C / 150°C / 300°C</u>	<u>0.5°C / 150.4°C / 300.6°C</u>
Test 3			

TEST EQUIPMENT			
Serial #:	<u>1085020</u>	Model #:	<u>744</u>
Description:	_____		Calibration Date:
		Manufacturer:	<u>FLUKE</u>
		Calibration Date:	<u>Jan. 19/15</u>

TEST EQUIPMENT			
Serial #:	_____	Model #:	_____
Description:	_____		Calibration Date:
		Manufacturer:	_____

COMMENTS

 Tested By:
 Name: Rodger Herron
 Signature: Rodger Herron

 Date: Sept. 23/15
 Company: Process Inst

 Accepted By:
 Name: _____
 Signature: _____

 Date: _____
 Company: _____

Client: COVANTA
Project: _____

Date: Sept. 23/15
Location: DURHAM-YORK
Contract #: _____

INSTRUMENT DETAILS

Tag #: 2-TE-4748B System: A2BLR Manufacturer: ENDRUS & HAUSER
Description: ECCN OUTLET TEMP
Serial #: _____ Model #: _____ Calibrated Range: 0°C → 300°C
ENCL Rating: _____ Process Conn: _____ Other: _____

Continuity	Ground O.K.	Ambient Temp O.K.	SS Tag

	Temp Input	Actual Reading <u>HEAD</u>	Measured <u>CONT. RM</u>
Test 1	<u>FROM TIC</u>	<u>165.9°C</u>	<u>165.0°C</u>
Test 2	<u>OUTPUT FROM 744</u>	<u>0°C / 150°C / 300°C</u>	<u>-0.7°C / 149.4°C / 299.5°C</u>
Test 3			

TEST EQUIPMENT

Serial #: 1085020 Model #: 744 Calibration Date: Jan. 19/15
Description: _____ Manufacturer: FLUKE

TEST EQUIPMENT

Serial #: _____ Model #: _____ Calibration Date: _____
Description: _____ Manufacturer: _____

COMMENTS

Tested By:

Name: Rafael Herron
Signature: Rafael Herron

Date: Sept. 23/15
Company: Grace Inst.

Accepted By:

Name: _____
Signature: _____

Date: _____
Company: _____

Client: COVANTA
 Project: _____

 Date: Sept. 23/15
 Location: DURHAM-YORK
 Contract #: _____

INSTRUMENT DETAILS

 Tag #: ITE-5227 System: #1 BAR Manufacturer: TEMP PRO
 Description: FEEDWATER TEMP
 Serial #: _____ Model #: _____ Calibrated Range: 0^o-250^oC
 ENCL Rating: _____ Process Conn: _____ Other: _____

Continuity	Ground O.K.	Ambient Temp O.K.	SS Tag

	Temp Input	Actual Reading <u>HEAD</u>	Measured <u>CONF. RM</u>
Test 1	<u>FROM TIC</u>	<u>138.6^oC</u>	<u>138.9^oC</u>
Test 2	<u>OUTPUT FROM 744</u>	<u>0^oC / 125^oC / 250^oC</u>	<u>-0.1^oC / 125.0^oC / 250.1^oC</u>
Test 3			

TEST EQUIPMENT

 Serial #: 1095020 Model #: 744 Calibration Date: Jan. 19/15
 Description: _____ Manufacturer: FLUKE
TEST EQUIPMENT

 Serial #: _____ Model #: _____ Calibration Date: _____
 Description: _____ Manufacturer: _____

COMMENTS
Replaced head, nipple broken at well. Cap seized

Tested By:

 Name: Rodger Herron
 Signature: Rodger Herron

 Date: Sept. 23/14
 Company: hvac Inst
Accepted By:

 Name: _____
 Signature: _____

 Date: _____
 Company: _____

Client: COVANTA
Project: _____

Date: Sept 23/15
Location: DURHAM, YORK
Contract #: _____

INSTRUMENT DETAILS			
Tag #:	<u>JTE 5227</u>	System:	<u>H2 BLR</u>
Description:	<u>FEEDWATER TEMP</u>		
Serial #:	_____	Model #:	_____
ENCL Rating:	_____	Process Conn:	_____
		Calibrated Range:	<u>0-250°C</u>
		Other:	_____

Continuity	Ground O.K.	Ambient Temp O.K.	SS Tag

	Temp Input	Actual Reading <u>HEAD</u>	Measured <u>CONT. RM</u>
Test 1	<u>FROM TIC</u>	<u>138.2°C</u>	<u>138.2°C</u>
Test 2	<u>OUTPUT FROM 744</u>	<u>0°C / 175°C / 250°C</u>	<u>-0.6°C / 174.6°C / 249.6°C</u>
Test 3			

TEST EQUIPMENT			
Serial #:	<u>1085020</u>	Model #:	<u>744</u>
Description:	_____		Calibration Date:
			<u>Jan 19/15</u>
			Manufacturer: <u>FLUKE</u>

TEST EQUIPMENT			
Serial #:	_____	Model #:	_____
Description:	_____		Calibration Date:

			Manufacturer: _____

COMMENTS

Tested By:
Name: Rodriguez Herrero
Signature: Rodriguez Herrero

Date: _____
Company: _____

Accepted By:
Name: _____
Signature: _____

Date: _____
Company: _____



Calibration Test Report - Thermocouple

OPS-FRM-124-R0

Approved Date

Client: COVANTA
 Project: _____

Date: Sept 23/15
 Location: DURHAM - YORK
 Contract #: _____

INSTRUMENT DETAILS			
Tag #:	<u>ITE-5223</u>	System:	<u>#1 BLR</u>
Description:	<u>MAIN STEAM HEADER TEMP</u>		Manufacturer: <u>TEMP PRO</u>
Serial #:	_____	Model #:	_____
ENCL Rating:	_____	Process Conn:	_____
		Calibrated Range:	<u>0°C - 600°C</u>
		Other:	_____

Continuity	Ground O.K. <u>HEAD</u>	Ambient Temp O.K.	SS Tag

	Temp Input	Actual Reading <u>HEAD</u>	Measured <u>CONT. RM</u>
Test 1	<u>FROM TIC</u>	<u>497.7°C</u>	<u>498.02°C</u>
Test 2	<u>OUTPUT FROM 744</u>	<u>0°C / 300°C / 600°C</u>	<u>0.05°C / 300.1°C / 600.2°C</u>
Test 3			

TEST EQUIPMENT			
Serial #:	<u>1085020</u>	Model #:	<u>744</u>
Description:	_____		Calibration Date: <u>Jan 19/15</u>
			Manufacturer: <u>FLUKE</u>

TEST EQUIPMENT			
Serial #:	_____	Model #:	_____
Description:	_____		Calibration Date: _____
			Manufacturer: _____

COMMENTS

Tested By:
 Name: Robert Herron
 Signature: Robert Herron

Date: Sept. 23/15
 Company: Grace Inst

Accepted By:
 Name: _____
 Signature: _____

Date: _____
 Company: _____

Client: COVANTA
 Project: _____

 Date: Sept. 23/15
 Location: DURHAM - YORK
 Contract #: _____

INSTRUMENT DETAILS			
Tag #:	<u>2TE5223</u>	System:	<u>#2 BUR</u>
Description:	_____		
Serial #:	_____	Model #:	_____
ENCL Rating:	_____	Process Conn:	_____
Manufacturer:		<u>TEMP PRO</u>	
Calibrated Range:		<u>0 - 600 °C</u>	
Other:		_____	

Continuity	Ground O.K.	Ambient Temp O.K.	SS Tag

	Temp Input	Actual Reading <u>HEAD</u>	Measured <u>CONT. RTD</u>
Test 1	<u>FROM T/C</u>	<u>487.5 °C</u>	<u>487.1 °C</u>
Test 2	<u>OUTPUT FROM 744</u>	<u>0 °C / 300 °C / 600 °C</u>	<u>0.0 °C / 299.9 °C / 600.0 °C</u>
Test 3			

TEST EQUIPMENT			
Serial #:	<u>1085020</u>	Model #:	<u>744</u>
Description:	_____		
Calibration Date:		<u>Jan 19/15</u>	
Manufacturer:		<u>FLUKE</u>	

TEST EQUIPMENT			
Serial #:	_____	Model #:	_____
Description:	_____		
Calibration Date:		_____	
Manufacturer:		_____	

COMMENTS

LOOSE T/C SCREWS

 Tested By:
 Name: Rodger Herron
 Signature: Rodger Herron

 Date: Sept. 23/15
 Company: Luca Inst

 Accepted By:
 Name: _____
 Signature: _____

 Date: _____
 Company: _____

Client: COVANTA
Project: _____

Date: Sept. 24/15
Location: DURHAM - YORK
Contract #: _____

INSTRUMENT DETAILS			
Tag #:	<u>ITE 5228</u>	System:	<u>#1 BLR</u>
Description:	<u>SH3 OUTLET TEMP</u>		Manufacturer: <u>Temp-Pro</u>
Serial #:	_____	Model #:	_____
ENCL Rating:	_____	Process Conn:	_____
		Calibrated Range:	<u>0 - 600°C</u>
		Other:	_____

Continuity	Ground O.K.	Ambient Temp O.K.	SS Tag

	Temp Input	Actual Reading <u>HEAD</u>	Measured <u>CONF. RM</u>
Test 1	<u>FROM T/C</u>	<u>498.9 °C</u>	<u>499.1 °C</u>
Test 2	<u>OUTPUT FROM 744</u>	<u>0°C / 300°C / 600°C</u>	<u>0.1°C / 300.0°C / 600.0°C</u>
Test 3			

TEST EQUIPMENT			
Serial #:	<u>1085020</u>	Model #:	<u>744</u>
Description:	_____		Calibration Date: <u>Jan 19/15</u>
			Manufacturer: <u>FLUKE</u>

TEST EQUIPMENT			
Serial #:	_____	Model #:	_____
Description:	_____		Calibration Date: _____
			Manufacturer: _____

COMMENTS
Terminals loose on both "red" leads

Tested By:
Name: Rodger Herron
Signature: Rodger Herron

Date: Sept. 24/15
Company: Grace Inst

Accepted By:
Name: _____
Signature: _____

Date: _____
Company: _____



Client: COVANTA
Project: _____

Date: Sept. 24/15
Location: DURHAM - YORK
Contract #: _____

INSTRUMENT DETAILS			
Tag #:	<u>2TE-5228</u>	System:	<u>#2 BLR</u>
Description:	<u>S#3 OUTLET TEMP</u>		Manufacturer: <u>TEMP PRO</u>
Serial #:	_____	Model #:	_____
ENCL Rating:	_____	Calibrated Range:	<u>0-600°C</u>
Process Conn:	_____	Other:	_____

Continuity	Ground O.K.	Ambient Temp O.K.	SS Tag

	Temp Input	Actual Reading	Measured
Test 1	<u>FRONT I/C</u>	<u>500.4°C</u>	<u>501.1°C</u>
Test 2	<u>OUTPUT FROM 744</u>	<u>0°C / 300°C / 600°C</u>	<u>200.5°C / 299.8°C / 599.9°C</u>
Test 3			

TEST EQUIPMENT			
Serial #:	<u>1085020</u>	Model #:	<u>744</u>
Description:	_____	Calibration Date:	<u>Jan. 19/15</u>
		Manufacturer:	<u>FLUKE</u>

TEST EQUIPMENT			
Serial #:	_____	Model #:	_____
Description:	_____	Calibration Date:	_____
		Manufacturer:	_____

COMMENTS

Tested By:
Name: Rodger Herron
Signature: Rodger Herron

Date: Sept. 24/15
Company: Grace Instr

Accepted By:
Name: _____
Signature: _____

Date: _____
Company: _____