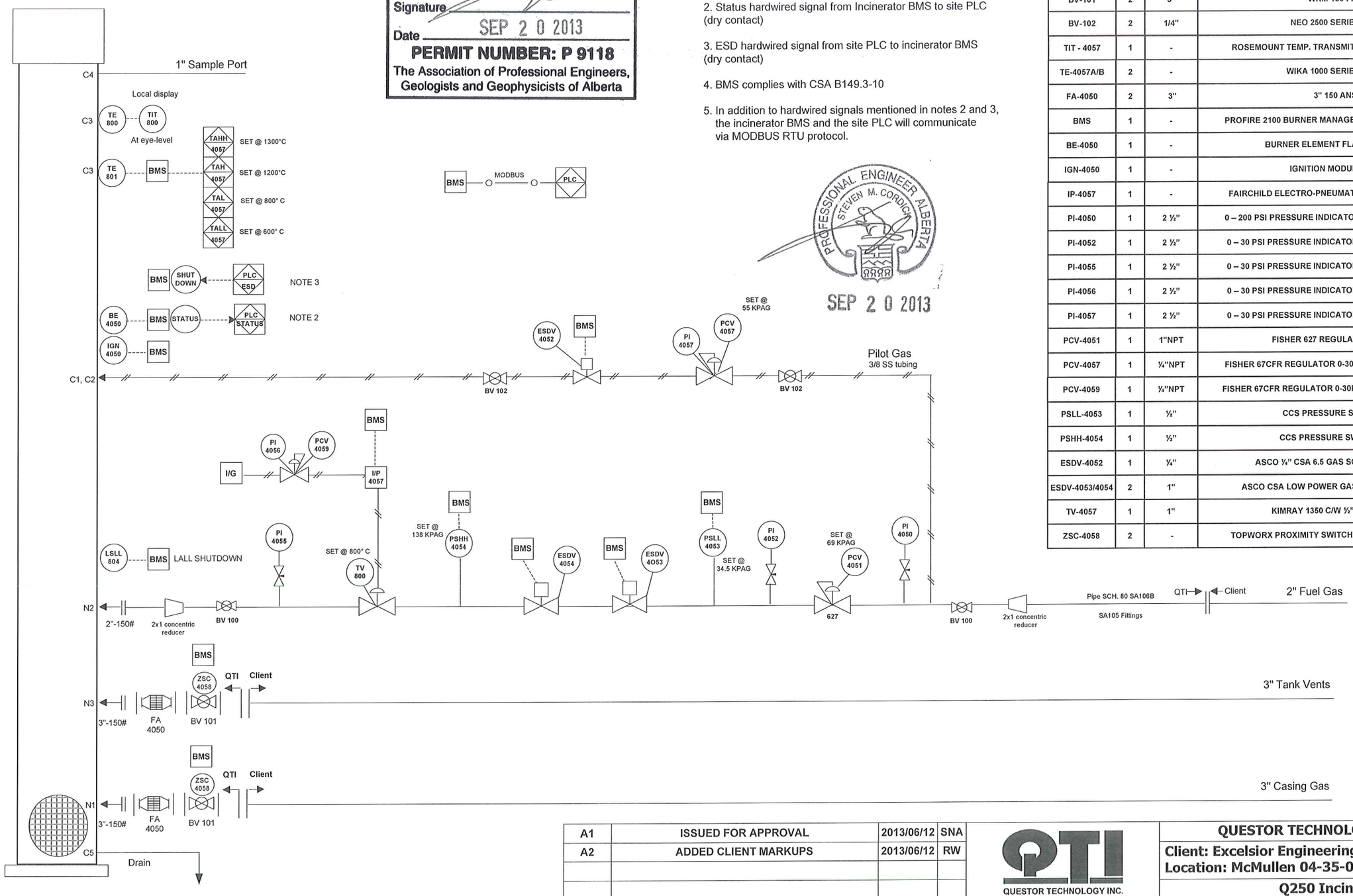
PERMIT TO PRACTICE
TRIUMPH EPCM LTD.
Signature
Date SEP 2 0 2013
PERMIT NUMBER: P 9118
The Association of Professional Engineers, Geologists and Geophysicists of Alberta

Notes:

1. System powered by 24 VDC
2. Status hardwired signal from Incinerator BMS to site PLC (dry contact)
3. ESD hardwired signal from site PLC to incinerator BMS (dry contact)
4. BMS complies with CSA B149.3-10
5. In addition to hardwired signals mentioned in notes 2 and 3, the incinerator BMS and the site PLC will communicate via MODBUS RTU protocol.

PROFESSIONAL ENGINEER ALBERTA STEVEN M. CORDICK
SEP 2 0 2013



ITEM	QTY.	SIZE	DESCRIPTION
BV-100	2	1"	NEO 2500 SERIES STAINLESS BALL VALVE
BV-101	2	3"	WKM 150 FLG FLOAT FP BV NACE
BV-102	2	1/4"	NEO 2500 SERIES STAINLESS BALL VALVE
TIT - 4057	1	-	ROSEMOUNT TEMP. TRANSMITTER W/ LOCAL DISPLAY RANGE 0 -1372 C
TE-4057A/B	2	-	WIKA 1000 SERIES THERMO COUPLE TYPE K
FA-4050	2	3"	3" 150 ANSI FLAME ARRESTOR
BMS	1	-	PROFIRE 2100 BURNER MANAGEMENT SYSTEM C/W MODBUS CARD 1PS167
BE-4050	1	-	BURNER ELEMENT FLAME ROD PART OF PROFIRE 2100
IGN-4050	1	-	IGNITION MODULE PART OF PROFIRE 2100
IP-4057	1	-	FAIRCHILD ELECTRO-PNEUMATIC TRANSDUCER MODEL#TCXI7850-401EN
PI-4050	1	2 ½"	0 – 200 PSI PRESSURE INDICATOR 2 ½" Stainless C/W Stainless Needle Valve
PI-4052	1	2 ½"	0 – 30 PSI PRESSURE INDICATOR 2 ½" Stainless C/W Stainless Needle Valve
PI-4055	1	2 ½"	0 – 30 PSI PRESSURE INDICATOR 2 ½" Stainless C/W Stainless Needle Valve
PI-4056	1	2 ½"	0 – 30 PSI PRESSURE INDICATOR 2 ½" Stainless C/W Stainless Needle Valve
PI-4057	1	2 ½"	0 – 30 PSI PRESSURE INDICATOR 2 ½" Stainless C/W Stainless Needle Valve
PCV-4051	1	1"NPT	FISHER 627 REGULATOR 1" 5 – 20 SET POINT 10PSI
PCV-4057	1	¼"NPT	FISHER 67CFR REGULATOR 0-30PSI NON VENTING BONNET SET POINT 8PSI
PCV-4059	1	¼"NPT	FISHER 67CFR REGULATOR 0-30PSI NON VENTING BONNET SET POINT 15PSI
PSLL-4053	1	½"	CCS PRESSURE SWITCH LOW SET POINT 5 PSI
PSHH-4054	1	½"	CCS PRESSURE SWITCH HIGH SET POINT 20 PSI
ESDV-4052	1	¼"	ASCO ¼" CSA 6.5 GAS SOLENOID VALVE PART HV287776001
ESDV-4053/4054	2	1"	ASCO CSA LOW POWER GAS SOLENOID VALVE PART HV298568002
TV-4057	1	1"	KIMRAY 1350 C/W ½" TRIM AND MINIMUM FIRE STOP
ZSC-4058	2	-	TOPWORX PROXIMITY SWITCH MODEL LPS-DZ1NA2 CLASS I,11,111 DIV 1

A1	ISSUED FOR APPROVAL	2013/06/12	SNA
A2	ADDED CLIENT MARKUPS	2013/06/12	RW

QTI
QUESTOR TECHNOLOGY INC.
Prepared By: SNA
Date: 2013/06/12

QUESTOR TECHNOLOGY INCORPORATED
Client: Excelsior Engineering – Husky Energy
Location: McMullen 04-35-078-25-W4M
Q250 Incinerator P&ID
Fuel train design as per CSA B149.3-2010

Job No.: 20121112-133	Dwg: 12133-D-P-201	Scale: NTS	Sheet: 1	Rev. A2