

UH-804
BUILDING HEATER
(1) REFERENCE: 4416-4050-20-D
1/2" HP 120V/1PH/60HZ 1/2" MOTOR
31.31 X.P. THERMOSTAT

BF-804
EXHAUST FAN
ONE WALL MOUNTED
1/2" HP 120V/1PH/60HZ 1/2" MOTOR
31.31 X.P. THERMOSTAT

C-304
GLYCOL CONTACTOR
30" O.D. x 30'-0" H.
200 PSIG D.P. @ 70°F C.A.
5/8" 2-PHASE 1.5" Ø INTEGRAL SCRUBBER

E-416
GAS/GLYCOL HEAT EXCHANGER
3/4" O.D. x 44' O.D. x 10'-0" L.
200 PSIG D.P. @ 70°F C.A.
5/8" 2-PHASE 1.5" Ø INTEGRAL SCRUBBER

V-153
GLYCOL LEVEL GAGE
1/2" O.D. x 2'-0" H.
200 PSIG D.P. @ 70°F C.A.
5/8" 2-PHASE 1.5" Ø INTEGRAL SCRUBBER

V-159
FUEL GAS SCRUBBER
24" O.D. x 2'-0" H.
200 PSIG D.P. @ 70°F C.A.
5/8" 2-PHASE 1.5" Ø INTEGRAL SCRUBBER

P-518A/B
GLYCOL PUMPS
(1) 1/2" HP 120V/1PH/60HZ 1/2" MOTOR
200 PSIG D.P. @ 0.55 USGPM
5/8" 1 HP 450W/2PH/60HZ
1/2" 1-PACK
SCV 40 TRIMBLE

E-417
AIR/GLYCOL HEAT EXCHANGER
1/2" O.D. x 44' O.D. x 10'-0" L.
200 PSIG D.P. @ 70°F C.A.
5/8" 2-PHASE 1.5" Ø INTEGRAL SCRUBBER

CA-818
VALVE TAGGING
TAGS TO BE PLACED ON ALL VALVES
TAGS TO BE PLACED ON ALL INSTRUMENTS
TAGS TO BE PLACED ON ALL PIPES
TAGS TO BE PLACED ON ALL ELECTRICAL PANELS
TAGS TO BE PLACED ON ALL MOUNTED INSIDE PANELS

REV. (2) UNITS REQUIRED

NO.	DATE	BY	CHKD.	SCALE	REV.	DESCRIPTION
1	2006-10-20	MS	MS	AS SHOWN	1	ISSUED FOR CONSTRUCTION
2	2006-10-20	MS	MS	AS SHOWN	2	ISSUED FOR CONSTRUCTION
3	2006-10-20	MS	MS	AS SHOWN	3	ISSUED FOR CONSTRUCTION
4	2006-10-20	MS	MS	AS SHOWN	4	ISSUED FOR CONSTRUCTION
5	2006-10-20	MS	MS	AS SHOWN	5	ISSUED FOR CONSTRUCTION
6	2006-10-20	MS	MS	AS SHOWN	6	ISSUED FOR CONSTRUCTION
7	2006-10-20	MS	MS	AS SHOWN	7	ISSUED FOR CONSTRUCTION
8	2006-10-20	MS	MS	AS SHOWN	8	ISSUED FOR CONSTRUCTION
9	2006-10-20	MS	MS	AS SHOWN	9	ISSUED FOR CONSTRUCTION
10	2006-10-20	MS	MS	AS SHOWN	10	ISSUED FOR CONSTRUCTION

GENERAL LEGEND:

1. DENOTES PNEUMATIC COMPRESSOR PANEL (E-I-N)
2. DENOTES ELECTRICAL JUNCTION BOX (E-I-N)
3. DENOTES ELECTRICAL TECH. (E-I-N)
4. DENOTES LOCAL P.L.C. TECH. (E-I-N)
5. DENOTES LOCAL P.L.C. TECH. (E-I-N)
6. DENOTES LOCAL P.L.C. TECH. (E-I-N)
7. DENOTES LOCAL P.L.C. TECH. (E-I-N)
8. DENOTES LOCAL P.L.C. TECH. (E-I-N)
9. DENOTES LOCAL P.L.C. TECH. (E-I-N)
10. DENOTES LOCAL P.L.C. TECH. (E-I-N)


NOTES:

1. DENOTES PNEUMATIC COMPRESSOR PANEL (E-I-N)
2. DENOTES ELECTRICAL JUNCTION BOX (E-I-N)
3. DENOTES ELECTRICAL TECH. (E-I-N)
4. DENOTES LOCAL P.L.C. TECH. (E-I-N)
5. DENOTES LOCAL P.L.C. TECH. (E-I-N)
6. DENOTES LOCAL P.L.C. TECH. (E-I-N)
7. DENOTES LOCAL P.L.C. TECH. (E-I-N)
8. DENOTES LOCAL P.L.C. TECH. (E-I-N)
9. DENOTES LOCAL P.L.C. TECH. (E-I-N)
10. DENOTES LOCAL P.L.C. TECH. (E-I-N)

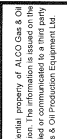
VALVE TAGGING

VALVE TAGS TO BE PLACED ON ALL VALVES
TAGS TO BE PLACED ON ALL INSTRUMENTS
TAGS TO BE PLACED ON ALL PIPES
TAGS TO BE PLACED ON ALL ELECTRICAL PANELS
TAGS TO BE PLACED ON ALL MOUNTED INSIDE PANELS

ALCO PRODUCTION EQUIPMENT LTD.
MECHANICAL FLOWSHEET
SWEET GLYCOL DEHYDRATION PACKAGE
1.0 CONTACTOR V. 1,200,000 INHA REBOILER
1.0 CONTACTOR V. 1,200,000 INHA REBOILER
CUSTOMER: CORT ENERGY 5/8 BSR ENGINEERING LTD. 500 MILLERS ROAD, PO BOX 25-26-28, WEAVERTON, ONTARIO, CANADA
DWG/SHOP ORDER: D-2006-7588-50F-001/002
REV. 3

REV. NO.	ITEM NO.	QTY	DESCRIPTION	MATERIAL	NOTE	UNIT WEIGHT	TOTAL WEIGHT	WHSE	SUPPLIER	DELY DATE	P.O. NUMBER	P.O. DATE	UNIT PRICE	TOTAL PRICE	REMARKS
	PT-30403	1	FISHER ROSEMOUNT SMART GAUGE PRESSURE TRANSMITTER: MODEL 3051TG3A2B21AB4C6, CALIBRATE 0-200 PSIG, NON-INDICATING, 4-20 mA OUTPUT, 800 PSIG MAWP, NICKEL PLATED C.S. FLANGES, CLASS I DIV I, XP c/w 2" PIPE MOUNTING BRACKET			4	4								
	PT-30503	1	FISHER ROSEMOUNT SMART GAUGE PRESSURE TRANSMITTER: MODEL 3051TG4A2B21AB4C6, CALIBRATE 0-1415 PSIG, NON-INDICATING, 4-20 mA OUTPUT, 4000 PSIG MAWP, NICKEL PLATED C.S. FLANGES, CLASS I DIV I, XP c/w 2" PIPE MOUNTING BRACKET			4	4								
	PT-15906	1	FISHER ROSEMOUNT SMART GAUGE PRESSURE TRANSMITTER: MODEL 3051TG3A2B21AB4C6, CALIBRATE 0-200 PSIG, NON-INDICATING, 4-20 mA OUTPUT, 800 PSIG MAWP, NICKEL PLATED C.S. FLANGES, CLASS I DIV I, XP c/w 2" PIPE MOUNTING BRACKET			4	4								
	PT-41802	1	FISHER ROSEMOUNT SMART GAUGE PRESSURE TRANSMITTER: MODEL 3051TG4A2B21AB4C6, CALIBRATE 0-1415 PSIG, NON-INDICATING, 4-20 mA OUTPUT, 4000 PSIG MAWP, NICKEL PLATED C.S. FLANGES, CLASS I DIV I, XP c/w 2" PIPE MOUNTING BRACKET			4	4								
	Pd1-15906	2	FISHER ROSEMOUNT SMART DIFFERENTIAL PRESSURE TRANSMITTER: MODEL 3051CDA2A21AB1C6, CALIBRATE 0-100" W.C., NON-INDICATING, 4-20 mA OUTPUT, NICKEL PLATED C.S. FLANGES, CLASS I DIV I, XP c/w 2" PIPE MOUNTING BRACKET			4	8								
TOTAL PAGE WEIGHT (Lbs.): 24															
REVISIONS REV. DATE REV. BY 0 May 26, 2006 KRT															
NOTES: *** SEE NOTE COLUMN FOR APPLICATION NUMBERS *** 1. MATERIAL TO MEET THE NOTES AND REQUIREMENTS AS OUTLINED ON THE LAYOUT DRAWING.															
ALCO  GAS & OIL PRODUCTION EQUIPMENT LTD.															
BILL OF MATERIALS CUSTOMER: FORT ENERGY c/o BDR ENGINEERING LTD. LOCATION: SWEET GLYCOL DEHYDRATION PACKAGE - 42" I.D. CONTACTOR w/ 1,250,000 BTU/HR REBOILER L.S.D.: 11-17-63-06 W5M & 07-25-62-05 W5M DWG/SHOP ORDER: B-2006-7589-50B-009/014 REV. 0															

REV. NO.	ITEM	QTY	DESCRIPTION	MATERIAL	NOTE	UNIT WEIGHT	TOTAL WEIGHT	WHSE	SUPPLIER	DELY DATE	P.O. NUMBER	P.O. DATE	UNIT PRICE	TOTAL PRICE	REMARKS							
1	BA-600	2	2"-600# RF BALL VALVE: 1480 PSIG @ 100°F; REGULAR PORT; STD MATL'S	SA-216-WCB		37	74															
1	BA-2008	4	1/2" NPT BALL VALVE: 2000 PSIG @ 100°F; REGULAR PORT; STD MATL'S	A-351-CF8M		2.2	9															
1	BA-2008	8	3/4" NPT BALL VALVE: 2000 PSIG @ 100°F; REGULAR PORT; STD MATL'S	A-351-CF8M		2.4	19															
1	BA-2008	17	1" NPT BALL VALVE: 2000 PSIG @ 100°F; REGULAR PORT; STD MATL'S	A-351-CF8M		4.4	75															
1	BA-2008	2	2" NPT BALL VALVE: 2000 PSIG @ 100°F; REGULAR PORT; STD MATL'S	A-351-CF8M		17.5	35															
1	BA-2006	2	2" SW WORCESTER 4446RV-SW 3-PIECE BALL VALVE: 1480 PSIG @ 100°F; REGULAR PORT; STD MATL'S	A-351-CF8M		15	30															
1	BA-2006	2	1 1/2" SW WORCESTER 4446RV-SW 3-PIECE BALL VALVE: 1480 PSIG @ 100°F; REGULAR PORT; STD MATL'S	A-351-CF8M		7.5	15															
1	BA-2006	15	1" SW WORCESTER 4446RV-SW 3-PIECE BALL VALVE: 1480 PSIG @ 100°F; REGULAR PORT; STD MATL'S	A-351-CF8M		5	75															
1	BA-2006	9	3/4" SW WORCESTER 4446RV-SW 3-PIECE BALL VALVE: 1480 PSIG @ 100°F; REGULAR PORT; STD MATL'S	A-351-CF8M		4	36															
1	CH-806P	4	3/4" SW PISTON CHECK VALVE: CLASS 800; 1975 PSIG @ 100°F; REGULAR PORT; STD MATL'S	SA-105		3	12															
1	CH-806P	4	1" SW PISTON CHECK VALVE: CLASS 800; 1975 PSIG @ 100°F; REGULAR PORT; STD MATL'S	SA-105		5.7	23															
1	CH-808P	4	1" NPT PISTON CHECK VALVE: CLASS 800; 1975 PSIG @ 100°F; REGULAR PORT; STD MATL'S	SA-105		5.7	23															
1	CH-808P	1	1/2" NPT SWING PISTON VALVE: CLASS 800; 1975 PSIG @ 100°F; REGULAR PORT; STD MATL'S	SA-105		2.3	2															
TOTAL PAGE WEIGHT (Lbs.): 428																						
<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"> REVISIONS REV. DATE REV. BY 0 May 25, 2006 KRT 1 Aug 1, 2006 KRT </td> <td style="width: 50%;"> NOTES: *** SEE NOTE COLUMN FOR APPLICATION NUMBERS *** 1. MATERIAL TO MEET THE NOTES AND REQUIREMENTS AS OUTLINED ON THE LAYOUT DRAWING. </td> </tr> </table>															REVISIONS REV. DATE REV. BY 0 May 25, 2006 KRT 1 Aug 1, 2006 KRT	NOTES: *** SEE NOTE COLUMN FOR APPLICATION NUMBERS *** 1. MATERIAL TO MEET THE NOTES AND REQUIREMENTS AS OUTLINED ON THE LAYOUT DRAWING.						
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<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">BY: _____</td> <td style="width: 10%;">KRT</td> <td style="width: 10%;">DATE: May 17, 2006</td> <td style="width: 10%;">CHK'D: KEW</td> <td style="width: 10%;">APP'D: _____</td> <td style="width: 10%;">CUSTOMER: FORT ENERGY c/o BDR ENGINEERING LTD.</td> <td style="width: 10%;">LOCATION: SWEET GLYCOL DEHYDRATION PACKAGE - 42" I.D. CONTACTOR w/ 1,250,000 BTU/HR REBOILER</td> <td style="width: 10%;">REV. 1</td> </tr> </table>															BY: _____	KRT	DATE: May 17, 2006	CHK'D: KEW	APP'D: _____	CUSTOMER: FORT ENERGY c/o BDR ENGINEERING LTD.	LOCATION: SWEET GLYCOL DEHYDRATION PACKAGE - 42" I.D. CONTACTOR w/ 1,250,000 BTU/HR REBOILER	REV. 1
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GAS & OIL
PRODUCTION EQUIPMENT LTD.

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BILL OF MATERIALS

SWEET GLYCOL DEHYDRATION PACKAGE - 42" I.D. CONTACTOR w/ 1,250,000 BTU/HR REBOILER

CLEARWATER & SANDHILLS GAS PLANT EXPANSION

