

TOROMONT ENERGY SYSTEMS

OCT 26 2004

FOR INFORMATION ONLY

INSTRUMENT GAS SUPPLY SEE DWG #FFLOW A

MATERIAL SPECIFICATIONS

- PAINT: COMPRESSOR UNIT VALSPAR #20-F-54 "WARM GRAY"
- PRIMER: COMMERCIAL IRON OXIDE NON-LIFTING PRIMER
- TUBING: PROCESS TUBING - 316SS TYPE "SS" FITTINGS w/ 304SS TUBING ("SS" FITTINGS - 316SS BODY w/ SS BACK FERRULE & SS FRONT FERRULE) INSTRUMENTATION TUBING - CADMIUM PLATED "S" TYPE FITTINGS w/ 304SS TUBING ("S" FITTINGS - CARBON STEEL BODY w/ SS BACK FERRULE & CARBON STEEL FRONT FERRULE)
- PROCESS PIPING: SPOT X-RAY, 1/16" CORROSION ALLOWANCE, SANDBLAST SPOOLS DOWN STREAM OF SUCTION SCREENS TO CYLINDER INLETS ONLY.
- SCRUBBERS: SPOT X-RAY, 1/16" CORROSION ALLOWANCE, SANDBLAST SCTION & BOTTLES ONLY.
- COOLER: SPOT X-RAY OF NOZZLE BUTT WELDS, 1/16" CORROSION ALLOWANCE.
- OIL: ESSOLUBE GMA-40 IN ENGINE & COMPRESSOR FRAME.
- GLYCOL: INITIAL FILL OF 50% INHIBITED ETHYLENE GLYCOL/WATER SOLUTION.
- BILL OF MATERIALS: ON SEPARATE SHEET TO BE PROVIDED WITH DRAWING.
- NOTE #1: SPACER PLATES ARE PROVIDED FOR FUTURE INSTALLATION OF ORIFICE PLATES (IF REQUIRED)
- NOTE #2: UNIT COMES COMPLETE WITH 3-TON OVERHEAD BRIDGE CRANE.
- NOTE #3: BOLTING ON ALL PROCESS FLANGE CONNECTIONS TO BE SA-193-B7 STUDS AND SA-194-2H NUTS, 316SS GASKETS
- NOTE #4: ALL GASKETS ARE 316SS FLEXITALLIC.
- NOTE #5: RUN ALL INSTRUMENT VENTS TO EXTERIOR OF BUILDING.
- NOTE #6: PRESSURE VESSELS TO BE DIRECTED IN ALBERTA & SASK.
- NOTE #7: ALL NIPPLES ATTACHED DIRECTLY TO THE SCRUBBER TO BE SCH. 160 MINIMUM.
- NOTE #8: PAINT ALL SCRUBBER DUMP LINES FLAT BLACK.

GENERAL INFORMATION

- COMPR. FRAME - ARIEL JGK/4-4 RATED RPM = 1200 SERIAL NUMBER = F-20079
- ENGINE - WAUKESHA L7042GSI RATED 1478 BHP @ 1200 RPM SERIAL NUMBER = C-15147/1
- COOLER - AIR-X-CHANGERS MODEL 156EH-116-22 SERIAL NUMBER = 044165D
- PANEL - REMVUE 500-S SERIAL NUMBER = RM-11597-AA
- CYL. STAGE #1 THROW #1 - SERIAL NUMBER = C-63699
- CYL. STAGE #3 THROW #2 - SERIAL NUMBER = C-63698
- CYL. STAGE #1 THROW #3 - SERIAL NUMBER = C-63696
- CYL. STAGE #2 THROW #4 - SERIAL NUMBER = C-63697

LEGEND

- PROCESS LINES
- FUEL GAS, START GAS, DRAIN AND VENT LINES
- SUPPLY (CLEAN) OIL LINES
- WASTE OIL LINES
- WATER LINES
- PNEUMATIC TUBING
- ELECTRICAL WIRING
- CAPILLARY LINES
- SPACER
- SPECTICAL BOND
- SCREEN (COKE STRAINER)
- PANEL CONNECTION - ELECTRIC
- PANEL CONNECTION - PNEUMATIC
- LOCAL MOUNTED INSTRUMENT

NOTE: SWEET PROCESS GAS

PROPRIETARY MATERIAL NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT THE PRIOR WRITTEN CONSENT OF TOROMONT ENERGY SYSTEMS INC.

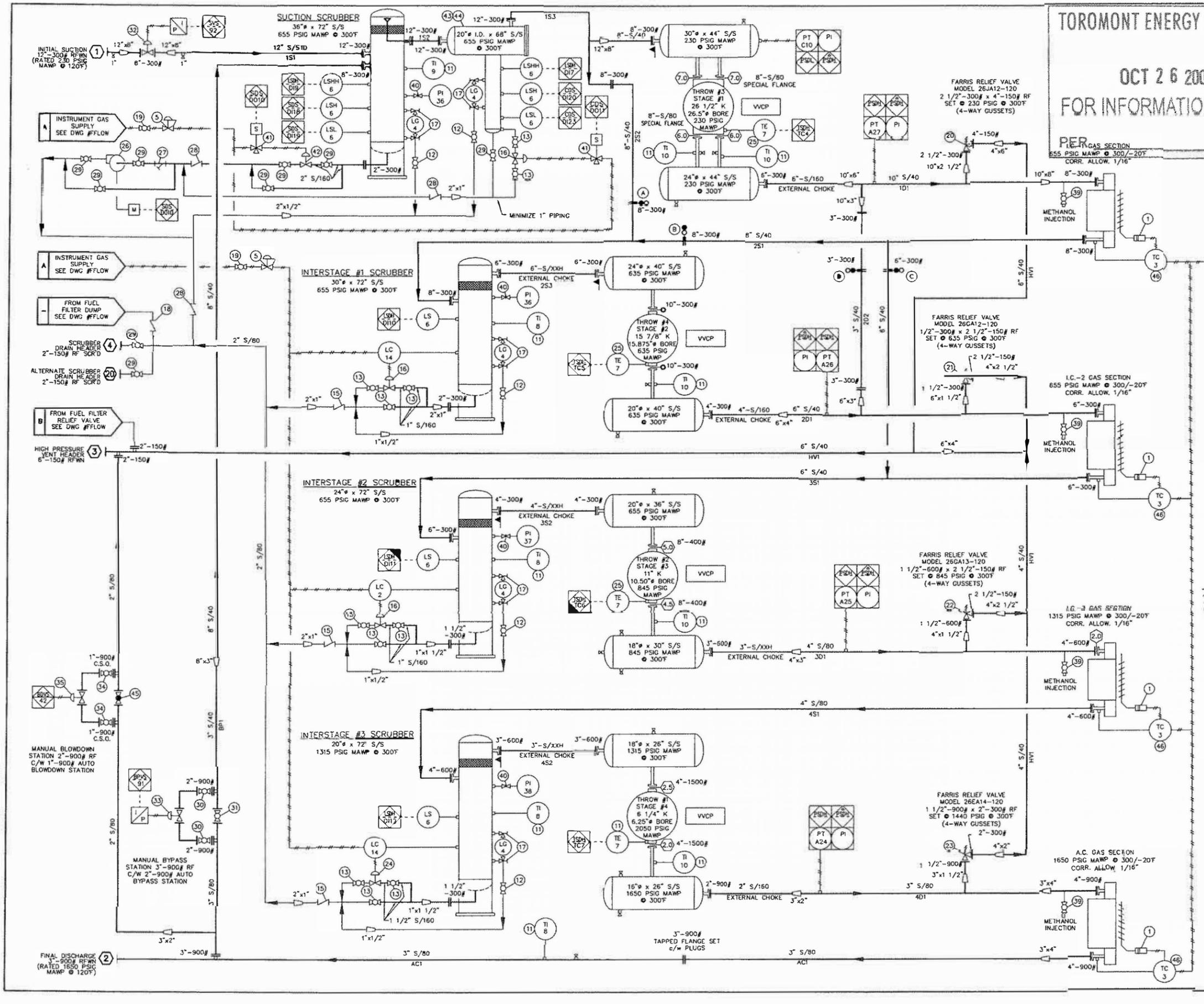
3	AS-BUILT/ADDED LINE TAGS	10/22/04	LJH
2	REVISED SCRUBBER PUMP SYSTEM/ADDED ORIFICE PLATES & GASKETS	08/17/04	LK
1	ISSUED FOR CONSTRUCTION	07/22/04	DB
0	ISSUED FOR APPROVAL	06/30/04	LK
No	REVISION	DATE	BY

PROPRIETARY MATERIAL: NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT THE PRIOR WRITTEN CONSENT OF ENERGY INDUSTRIES INC.

TOROMONT ENERGY SYSTEMS 10121 - BARLOW TRAIL N.E. CALGARY ALBERTA CANADA

TITLE: PROCESS FLOW DIAGRAM CUSTOMER: WAUKESHA L7042GSI / ARIEL JGK/4 CLASS AIR-X-CHANGERS 156EH

SCALE: NONE DATE: 06/30/04 BY: LK DATE RELEASED: 10/26/04 RELEASED BY: UNIT # 1202 DRAWING NO: 1202-PFLOW REV. 3 STEP # 410



INITIAL SUCTION 12"-300# RFWN (RATED 230 PSIG MAMP @ 120°F)

INSTRUMENT GAS SUPPLY SEE DWG #FFLOW

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FROM FUEL FILTER DUMP SEE DWG #FFLOW

SCRUBBER DRAIN HEADER 2"-150# R/S CRD

ALTERNATE SCRUBBER DRAIN HEADER 2"-150# R/S CRD

FROM FUEL FILTER RELIEF VALVE SEE DWG #FFLOW

HIGH PRESSURE VENT HEADER 6"-150# RFWN

MANUAL BLOWDOWN STATION 2"-900# R/C W/ 1"-900# AUTO BLOWDOWN STATION

MANUAL BYPASS STATION 3"-900# R/C W/ 2"-900# AUTO BYPASS STATION

FINAL DISCHARGE 3"-900# RFWN (RATED 1650 PSIG MAMP @ 120°F)