

DEMINERALIZED WATER FROM MAKE-UP PUMPS  
DMNM01001 SH04 004

DMN-1307-0.5TGD0.065

E (MW) 1

CONDENSATE AFTER CHEMICAL INJECTION  
CNSM01001 SH02 008

CNS-1129-0.5TGD0.065

E (MW) 1

BOILER FEEDWATER PUMP DISCHARGE  
METSO

METSO ZEC SL

METSO ZEC SL

METSO ZEC SL

METSO ZEC SL

METSO ZEC SL

T-29-02

T-34-02

T-30-01

T-31-01

BSS-1101-0.5TGB0.065

BSS-1102-0.5TGB0.065

BSS-1103-0.5TGB0.065

BSS-1104-0.5TGB0.065

CONDENSATE PUMP DISCHARGE HEADER  
CNSM01001 SH01 002

CNS-1113-0.5TGD0.065

E (MW) 1

0.5x0.25

0.5x0.25

0.5x0.25

0.5x0.25

0.5x0.25

0.5x0.25

0.5x0.25

0.5x0.25

IA

BSS-SS-1001  
SAMPLE PANEL

BSS-1105-2BBA8

BY VENDOR

**GENERAL NOTES**

1. PROVIDE THERMOTUBE TYPE SL OR APPROVED EQUAL.
2. PROVIDE THERMOTUBE TYPE HT OR APPROVED EQUAL (16" MINIMUM BEND RADIUS)
3. PROVIDE THERMOTUBE TYPE HTX OR APPROVED EQUAL (20" MINIMUM BEND RADIUS)

**REFERENCE DRAWINGS**

1. ANNOTATIONS, ABBREVIATIONS, ASSOCIATIONS PROCESS AND INSTRUMENTATION DIAGRAM MECHANICAL & INSTRUMENTATION SYMBOLOLOGY D014200-AAAM01001 SH01 AND SH02
2. METSO FEEDWATER PREHEATING M014200-BLRD00030 S01 R4
3. METSO MAIN STEAM PIPE M014200-BLRD00019 S01 R4
4. METSO SATURATED STEAM M014200-BLRD00015 SH01 R4
5. METSO BOILER WATER M014200-BLRD00016 S01 R4

THE CLOUDED AREAS SHOWN ON THIS "ISSUED FOR RECORD PURPOSES" DRAWING ARE BASED UPON INFORMATION FURNISHED BY THE CONTRACTOR. THIS CLOUDED INFORMATION THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH THE DESIGN ENGINEER CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. THE ORIGINAL SEALED DRAWINGS ARE ON FILE AT THE OFFICES OF ZACHRY ENGINEERING CORPORATION.

3	FOR RECORD PURPOSES	9/27/13	ZAC	MTL	PTB	DC
2	REMOVED TEMPERATURE CONTROL UNIT	4/13/12	TM	REB	PTO	AMC
1	REVISE CONNECTION SIZES, DEMIN SHEET #	1/13/12	TM	REB	PTO	AMC
0	ISSUED FOR CONSTRUCTION					
NO.	REVISION	DATE	DRWN	DSND	CHKD	CHKD

**Gainesville Renewable Energy Center**  
An American Renewables Company

**ZACHRY**

ZACHRY ENGINEERING CORPORATION - 101 WEST COLFAX AVENUE, SUITE 500, DENVER, CO 80202-4298  
FLORIDA BOARD OF PROFESSIONAL ENGINEERS CERTIFICATE OF AUTHORIZATION #08739  
AMARILLO, TX CHARLOTTE, NC HOUSTON, TX MINNEAPOLIS, MN OMAHA, NE SAN ANTONIO, TX

**GAINESVILLE RENEWABLE ENERGY CENTER**  
BOILER SAMPLING SYSTEM  
PROCESS & INSTRUMENTATION DIAGRAM

DRAWN	DESIGNED	CHECKED	CHECKED
T MILLER	R BAKER	P OMELIANCHUK	A CASEY
APPROVED BY	APPROVED BY	DRAWING NUMBER	SHEET
D. B. Jensen	D. B. Jensen	D014200-BSSM01001	01
APPROVED BY			3
10-8-13			

