CONTINUOUS BLOWNDOWN TANK
FLASH STEAM
VENDOR

DRUM BLOWDOWN TO CBD TANK
VENDOR

BBD-TK-1001
CONTINUOUS
BLOWDOWN TANK (CBD)

BBD-TK-1002
BLOWDOWN TANK

FEEDWATER TANK DRAIN
VENDOR

CLEANOUT
CONNECTOR

2

BY METSO

T-39-01
AG
BG
SL

BBD-1112-12BFB1

EXTERNAL DRAINS TANK
BBDM01001 SH02 001

BBD-1121-8BFB4

PI-
1107-10

PT-
1107-10

PI-
1107-11

VO
VA-
1107-01

VA-
1107-02

AG BG

BG AG

8x4

BBD-1107-8BBA4

MW
2

DU

BBD-1108-8BFB4

BBD-1113-8BBA4

PP

MW
1

VA-
1113-01

COOLING TOWER BASIN
CWSM01001 SH01 002

SP

8x4

MW
2

BBD-1105-4BBA4

BBD-1106-4BBA4

VA-
1105-01

CV-
1105-01

VA-
1106-01

CV-
1106-01

4x3

4x3

LAHH-
1004-40

BBD-PP-1004B
BLOWDOWN SUMP PUMP
1 X 100%
DESIGN FLOW: 225 GPM
TDH: 35 FT
5 HP

BBD-PP-1004A
BLOWDOWN SUMP PUMP
1 X 100%
DESIGN FLOW: 225 GPM
TDH: 35 FT
5 HP

BOILER BLOWDOWN SUMP 1004

## REFERENCE DRAWINGS

X

1. ANNOTATIONS, ABBREVIATIONS, ASSOCIATIONS
   PROCESS AND INSTRUMENTATION DIAGRAM
   MECHANICAL & INSTRUMENTATION SYMBOLOGY
   M014200-AAAM01001 SH01 AND SH02

2. METSO
   DRAINING AND VENTING
   M014200-BLRD00006 SH01 R0

| NO. | REVISION | DATE | DRWN | DSND | CHKD | CHKD |
|---|---|---|---|---|---|---|
| 3 | ADDED DU, CHANGED LINE SPEC | 7/20/12 | TM | MDL | DSR | TRP |
| 2 | REMOVED HEAT TRACE, ADDED REDUCERS, SWITCHED PUMPS | 4/13/12 | TM | REB | PTO | TRP |
| 1 | GENERAL REVISIONS | 12/23/11 | TM | REB | PTO | TRP |
| 0 | ISSUED FOR CONSTRUCTION | | | | | |

Gainesville Renewable Energy Center
An American Renewables Company

ZACHRY

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JAMES DANIEL CARLSON
LICENSE
No. 72631
STATE OF FLORIDA
PROFESSIONAL ENGINEER
7-25-12

# GAINESVILLE RENEWABLE ENERGY CENTER
## BOILER BLOWDOWN SYSTEM
## PROCESS & INSTRUMENTATION DIAGRAM

| DRAWN | DESIGNED | CHECKED | CHECKED |
|---|---|---|---|
| T MILLER | R BAKER | P OMELIANCHUK | A CASEY |

APPROVED DM: D Bilsen
APPROVED PM: Foust

DRAWING NUMBER: D014200-BBDM01001

SHEET: 01 REV: 3

TishaM 7/25/2012 9:05:31 AM P:\PAGEN\014200\techservdgn\Mech\PidBBDM01001p01.dgn