

PROJECT NO.: BUILDING: 320	VA245-P-0622 Task #3	SYSTEM OUTPUTS BINARY ANALOG	SYSTEM INPUTS BINARY ANALOG	ALARM PROCESSING	SYSTEM SOFTWARE/CONTROL APPLICATION/FUNCTION	PAGE: 5
SYSTEM: BOILER PLANT AUXILIARIES		ELECTRIC DEVICE START/STOP OPEN/CLOSE SPEED COMMAND VALVE POSITION DAMPER POSITION STATUS PRESSURE HIGH HUMIDITY LOW TEMPERATURE TEMPERATURE (T) PRESSURE POSITION FLOW PERCENT STATIC PRESSURE CARBON MONOXIDE HUMIDITY HERTZ		HIGH LIMIT LOW LIMIT STATUS	SCHEDULE START/STOP DUTY CYCLE TEMPERATURE ECONOMIZER ENTHALPY ECONOMIZER DEMAND LIMITING TEMPERATURE OVERRIDE STATIC PRESSURE RESET PRESSURE VOLUME CONTROL FAILURE MODE SPACE TEMPERATURE CONTROL FULL COMMUNICATION TRENDING GRAPHICS	REMARKS
SYSTEM COMPONENT:						
BOILER FEED PUMP (320-P3)						
PUMP DISCHARGE PRESSURE						
VARIABLE FREQUENCY DRIVE (VFD)						
VFD FAULT						
BOILER #1 - FEED WATER FLOW (WFM2)						
BOILER #1 - FEED WATER PRESSURE						
BOILER #1 - FEED WATER CONTROL VALVE CV-6						
BOILER FEED PUMP (320-P4)						
PUMP DISCHARGE PRESSURE						
VARIABLE FREQUENCY DRIVE (VFD)						
VFD FAULT						
BOILER #2 - FEED WATER FLOW (WFM3)						
BOILER #2 - FEED WATER PRESSURE						
BOILER #2 - FEED WATER CONTROL VALVE CV-7						
BOILER FEED PUMP (320-P5)						
PUMP DISCHARGE PRESSURE						
VARIABLE FREQUENCY DRIVE (VFD)						
VFD FAULT						
BOILER #3 - FEED WATER FLOW (WFM4)						
BOILER #3 - FEED WATER PRESSURE						
BOILER #3 - FEED WATER CONTROL VALVE CV-8						
FEEDWATER DEAERATOR						
TANK TEMPERATURE						
TANK WATER LEVEL						
TANK HIGH WATER LEVEL						
TANK LOW WATER LEVEL						
STEAM CONTROL VALVE CV-12						
STEAM CONTROL VALVE CV-13						
OVERFLOW CONTROL VALVE CV-5						
CONDENSATE TRANSFER CONTROL VALVE CV-4						
EMERGENCY MAKE-UP CONTROL VALVE CV-3						
EMERGENCY MAKE-UP FLOW (WFM7)						
CONDENSATE STORAGE TANK						
TANK TEMPERATURE						
SPARGE TUBE STEAM CONTROL VALVE CV-14						
SPARGE TUBE STEAM CONTROL VALVE CV-15						
TANK WATER LEVEL						
TANK HIGH WATER LEVEL						
TANK LOW WATER LEVEL						
PUMP 320-P6						
PUMP 320-P7						
PUMP 320-P4 DISCHARGE PRESSURE						
PUMP 320-P5 DISCHARGE PRESSURE						
NORMAL MAKE-UP CONTROL VALVE CV-1						
EMERGENCY MAKE-UP CONTROL VALVE CV-2						
CONTROL VALVE TO SANITARY TCV-2						
EMERGENCY MAKE-UP FLOW (WFM6)						

1 POINTS LIST FOR BOILER PLANT AUXILIARIES
NTS

PROJECT NO.: BUILDING: 320	VA245-P-0622 Task #3	SYSTEM OUTPUTS BINARY ANALOG	SYSTEM INPUTS BINARY ANALOG	ALARM PROCESSING	SYSTEM SOFTWARE/CONTROL APPLICATION/FUNCTION	PAGE: 6
SYSTEM: BOILER PLANT AUXILIARIES		ELECTRIC DEVICE START/STOP OPEN/CLOSE SPEED COMMAND VALVE POSITION DAMPER POSITION STATUS PRESSURE HIGH HUMIDITY HIGH STATIC PRESSURE LOW TEMPERATURE TEMPERATURE (T) PRESSURE POSITION FLOW PERCENT STATIC PRESSURE CARBON MONOXIDE HUMIDITY MODBUS CONNECTION		HIGH LIMIT LOW LIMIT STATUS	SCHEDULE START/STOP DUTY CYCLE TEMPERATURE ECONOMIZER ENTHALPY ECONOMIZER DEMAND LIMITING TEMPERATURE OVERRIDE STATIC PRESSURE RESET PRESSURE VOLUME CONTROL FAILURE MODE SPACE TEMPERATURE CONTROL FULL COMMUNICATION TRENDING GRAPHICS	REMARKS
SYSTEM COMPONENT:						
BLOWDOWN TANK						
TANK TEMPERATURE						
TANK WATER LEVEL						
CONTROL VALVE TO SANITARY TCV-1						
DISCHARGE TEMP. TO SANITARY						
BLOWDOWN HEAT EXCHANGER						
ENTERING BLOWDOWN WATER TEMPERATURE						
LEAVING BLOWDOWN WATER TEMPERATURE						
MAKEUP ENTERING WATER TEMPERATURE						
MAKEUP LEAVING WATER TEMPERATURE						
CONTROL VALVE TO SANITARY TCV-3						
SOFTENED WATER FLOW						
WATER SOFTENER (PHASE 4)						
HOUSE AIR COMPRESSOR						
AIR DRYER						
REVERSE OSMOSIS SYSTEM (PHASE 4)						
INCOMING WATER PRESSURE						
INCOMING WATER TEMPERATURE						
CARBON WATER FILTER #1						
RO UNIT						
TANK WATER LEVEL						
TANK HIGH WATER LEVEL #1						
TANK HIGH WATER LEVEL #2						
TANK LOW WATER LEVEL						
CIRCULATION PUMP						
CIRCULATION PUMP						
OUTGOING WATER FLOW (WFM5)						
CONDENSATE POLISHING SYSTEM						
PUMP 320-P8						
PUMP 320-P9						
CONTROL PANEL						
BOOSTER PUMP 320-BP1						

2 POINTS LIST FOR BOILER PLANT AUXILIARIES CONT
NTS

PROJECT NO.: BUILDING: 320	VA245-P-0622 Task #3	SYSTEM OUTPUTS BINARY ANALOG	SYSTEM INPUTS BINARY ANALOG	ALARM PROCESSING	SYSTEM SOFTWARE/CONTROL APPLICATION/FUNCTION	PAGE: 8
SYSTEM: BOILER PLANT PHASE 4 EQUIPMENT		ELECTRIC DEVICE START/STOP OPEN/CLOSE SPEED COMMAND VALVE POSITION DAMPER POSITION STATUS PRESSURE HIGH HUMIDITY HIGH STATIC PRESSURE LOW TEMPERATURE TEMPERATURE (T) PRESSURE POSITION FLOW PERCENT CARBON MONOXIDE HUMIDITY VACUUM GAS ANALYST PANEL GAS ALARM PANEL MASTER ALARM PANEL LOW LIMIT HIGH LIMIT STATUS			SCHEDULE START/STOP DUTY CYCLE TEMPERATURE ECONOMIZER ENTHALPY ECONOMIZER TEMPERATURE RESET DEMAND LIMITING TEMPERATURE OVERRIDE STATIC PRESSURE RESET PRESSURE VOLUME CONTROL FAILURE MODE SPACE TEMPERATURE CONTROL FULL COMMUNICATION TRENDING GRAPHICS	REMARKS
SYSTEM COMPONENT:						
HEAT EXCHANGER 320-SWHX2						
STEAM CONTROL VALVE - 1/3						
STEAM CONTROL VALVE - 2/3						
SOFTENED WATER SUPPLY						
ENTERING SOFTENED WATER						
HEAT EXCHANGER 320-SWHX3						
STEAM CONTROL VALVE - 1/3						
STEAM CONTROL VALVE - 2/3						
RO WATER SUPPLY						
ENTERING RO WATER						
EXHAUST FAN 320-EF1						
EXHAUST FAN 320-EF6						
VENTILATION FAN 320-EF3						
SPACE TEMPERATURE						
SUMMER/WINTER SWITCH						
VENTILATION FAN 320-EF4						
SPACE TEMPERATURE						
SUMMER/WINTER SWITCH						
VENTILATION FAN 320-EF5						
SPACE TEMPERATURE						
SUMMER/WINTER SWITCH						
WALL LOUVERS WITH MODS (11 TOTAL)						
CLERESTORY LOUVERS						
SPACE TEMPERATURE						
SUMMER/WINTER SWITCH						
MODS WITH LOUVERS (8 TOTAL)						

3 POINTS LIST PHASE IV EQUIPMENT
NTS

REVISION #1
Date

10.24.13
Date

CONSULTANTS:

Barton Associates
Consulting Engineers
Susquehanna Commerce Center
North Building
221 West Philadelphia Street
York, Pa 17401
Tel.: (717) 845-7854
Web: www.ba-inc.com

YORK | STATE COLLEGE

PROJECT No. 2011130.02
DRAWN BY: RGG
DESIGNED BY: JRA
CHECKED BY: DJB

ARCHITECT/ENGINEERS:

SAAarchitects
600 North Hartley Street, Suite 150
T 717.843.3200 F 717.699.0205
York, PA 17404
www.saaarchitects.com

DAVID BARTO
REGISTERED
1989
STATE OF PENNSYLVANIA
PROFESSIONAL ENGINEER

Drawing Title
CONTROL POINTS LISTS - MECHANICAL

Approved Project Director

Drawing Title
BOILER PLANT UPGRADE
PHASE V

Location
VAMC MARTINSBURG, WV

Date 10.22.2013
Checked
Drawn

Project Number
613-12-501
Building Number
320

Drawing Number
320-MP508
Dwg. 39 of 44

Office of
Construction
and Facilities
Management

Department of
Veterans Affairs

VA FORM 08-6231