2998-1-416

SIGNAL PROCESSOR ASSEMBLY

DATA STROBES

NEUTRON PULSE RATE DISPLAY

SAMPLE TEMPERATURE DISPLAY

BORON CONCENTRATION DISPLAY

HI-LO ALARM THUMBWHEELS

COMPARATORS

HI CONCENTRATION ALARM

LOW CONCENTRATION ALARM

16 BIT CONCENTRATION DATA LATCH

D/A CONVERTER

ANALOG TRANSMITTER(S)

ANALOG OUTPUT(S)

INTEL SBC 80/10 MICRO-COMPUTER

8 BIT I/O BUS

CLOCK

ADDRESS BUS

FREQ. DIVIDER

DECODER

RESET

NEUTRON PULSE COUNTER

RESET

TEMPERATURE PULSE COUNTER

AVG. WT. THUMB-WHEEL

COUNT FREQ THUMB-WHEEL

DET. COMP. THUMB-WHEEL

PROGRAM CONSTANT INPUTS VIA DIODE MATRIX

DATA STROBES

SAMPLER ELECTRONICS ASSY

REMOTE TEST FREQ.

TEST ACTUATE

NEUTRON PULSE SIGNAL

TEMPERATURE PULSE SIGNAL

DETECTOR TUBE HI VOLTAGE

MODE SWITCH

LOCAL TEST

REMOTE TEST

CR

CR

CHARGE AMPLIFIER

VOLTAGE AMPLIFIER AND DISCRIMINATOR

TEMPERATURE TO FREQ. CONVERTER

DETECTORS

NEUTRON SOURCE

TEMPERATURE SENSOR

SAMPLE VESSEL WITH BORON/WATER SOLUTION

+5V ±15V +24 +12 -12 -24

+5V, ±15V DC POWER SUPPLY

±12V DC POWER SUPPLY

±12V DC POWER SUPPLY

120 VAC 150 W

SAMPLER ELECTRONICS AC POWER

HV DC POWER SUPPLY

+5V +5VDC POWER SUPPLY

±15V ±15VDC POWER SUPPLY

+12V +12V REGULATOR

-12V -12V REGULATOR

-5V -5V REGULATOR

E-13172-503-009

02

INFORMATION ONLY
VERIFY WITH CONTROLLED COPY BEFORE USE

AS-BUILT

REV	DESCRIPTION	ENG'R DATE	CHK'D DATE	CHG APPD	FOSD APPD
1	INITIAL RELEASE "AS BUILT" PER REQ 13172-60	LVI 5/9/79	LVI 5/9/79	R.A.M. 5-11-79	
2	REVISED CUSTOMER BLOCK PER REV REQ 13172-64	LVI 5/9/79	LVI 5/9/79	R.A.M. 5-9-79	

COMBUSTION ENGINEERING, INC. — POWER SYSTEMS — NUCLEAR POWER SYSTEMS

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CUSTOMER: FLORIDA POWER & LIGHT CO.
ST. LUCIE PLANT UNIT NO. 2
A-203 M.O. NO. 9850080

NEXT ASSY | SUBSYSTEM

CM NO. 5760-5 | CONTRACT CODE | SCALE | SHEET

DRAWN BY MCCARTY 5/9/79
CHECKER LVI 5/9/79
APPROVALS R. A. M. 5-11-79

TITLE: S.W.R.B. BLOCK DIAGRAM

ENGG SERVICES INCORPORATED

DWG NO. E-13172-503-009 | 02

DISCIPLINE COMMENTS
DUE BY 3-5

DESIGN	ENGINEERING
FOR INFO ONLY	FOR INFO ONLY
MECHANICAL	
STRUCTURAL	
PIPING	
ELECTRICAL	
I & C	
HVAC	
CONTROL	
PLUMBING	
FIRE PROTECTION	
APPLIED PHYSICS	
HYDROLOGY	
WATER TREAT	
RADWASTE	
SHIELDING	
WATERFALL	
SURVEILLANCE	
ACOUSTX	
CAE	
PROJECT	
SUPPLEMENTARY	
CORROSION	
DRAWING	
IRREPRODUCIBLE ILLEGIBLE	
ACCESS	
STANDARDIZATION	

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D.C.

2998-1-416 R0 3/12
FLORIDA POWER & LIGHT COMPANY
ST. LUCIE PLANT
(ITEM) 917
ITEM

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