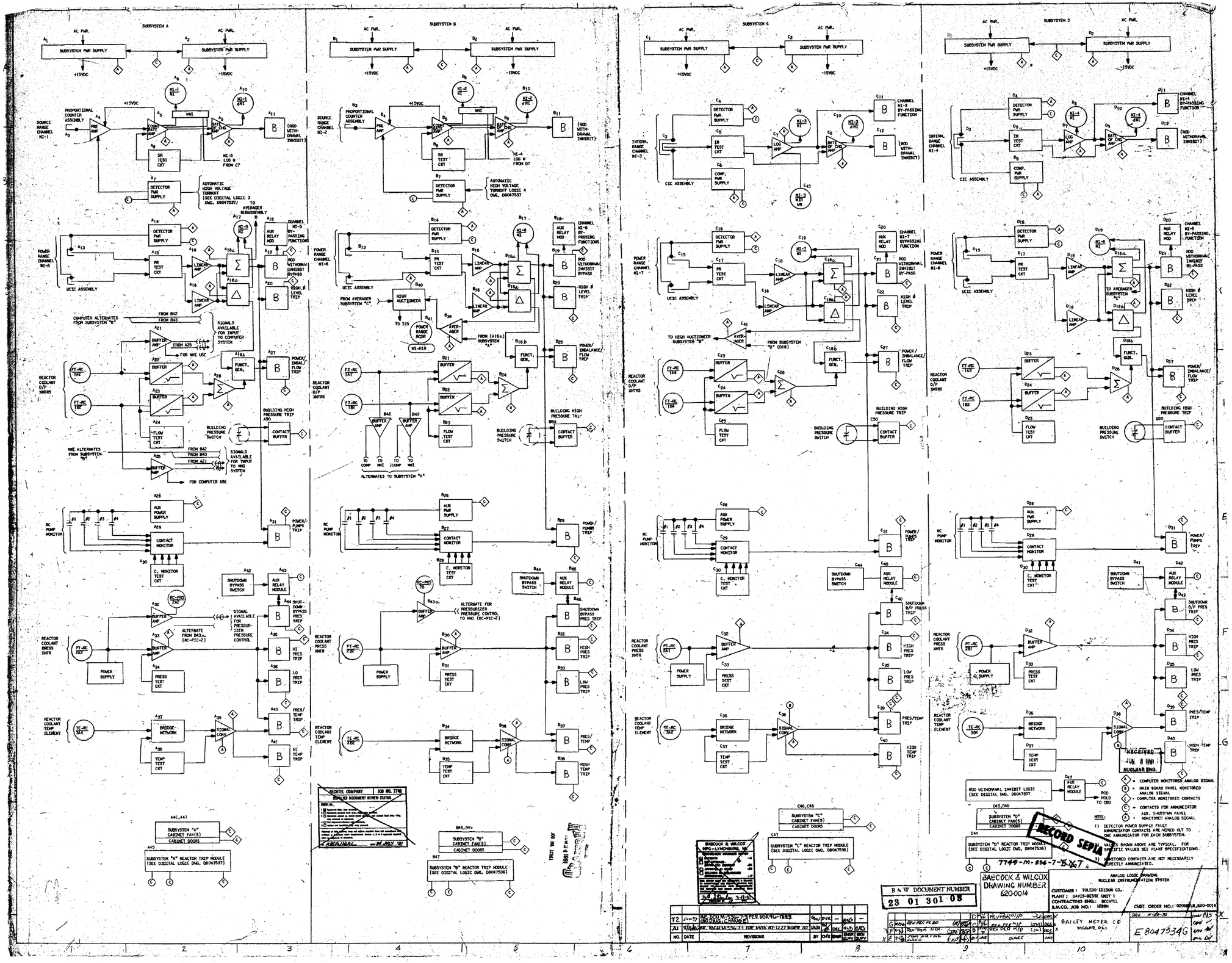
SUBSYSTEM A
SUBSYSTEM B
SUBSYSTEM C
SUBSYSTEM D
AC PWR.
SUBSYSTEM PWR SUPPLY
+15VDC
-15VDC
PROPORTIONAL COUNTER ASSEMBLY
SOURCE RANGE CHANNEL NI-1
SOURCE RANGE CHANNEL NI-2
INTERM. RANGE CHANNEL NI-3
INTERM. RANGE CHANNEL NI-4
POWER RANGE CHANNEL NI-5
POWER RANGE CHANNEL NI-6
POWER RANGE CHANNEL NI-7
POWER RANGE CHANNEL NI-8
CIC ASSEMBLY
UCIC ASSEMBLY
DETECTOR PWR SUPPLY
IR TEST CKT
PR TEST CKT
COMP. PWR SUPPLY
LOG AMP
RATE OF CHG. AMP
LINEAR AMP
SUMMING RATE AMP
SR TEST CKT
AUTOMATIC HIGH VOLTAGE TURNOFF (SEE DIGITAL LOGIC 3 DWG. DR047537)
AUTOMATIC HIGH VOLTAGE TURNOFF LOGIC 4 DWG. DR047537
TO AVERAGER SUBASSEMBLY
AUX RELAY MOD
CHANNEL NI-5 BY-PASSING FUNCTIONS
CHANNEL NI-6 BY-PASSING FUNCTIONS
CHANNEL NI-7 BYPASSING FUNCTION
CHANNEL NI-8 BY-PASSING FUNCTION
ROD WITHDRAWAL INHIBIT BYPASS
ROD WITHDRAWAL INHIBIT BY-PASS
(ROD WITHDRAWAL INHIBIT)
HIGH φ LEVEL TRIP
COMPUTER ALTERNATES FROM SUBSYSTEM "B"
FROM B42
FROM B43
SIGNALS AVAILABLE FOR INPUT TO COMPUTER SYSTEM
BUFFER AMP
FROM A25
FOR NNI USE
FUNCT. GEN.
POWER/ IMBAL. FLOW TRIP
REACTOR COOLANT D/P XMTRS
FT-RC 1A1
FT-RC 1B1
FLOW TEST CKT
BUILDING PRESSURE SWITCH
BUILDING HIGH PRESSURE TRIP
CONTACT BUFFER
NNI ALTERNATES FROM SUBSYSTEM "B"
SIGNALS AVAILABLE FOR INPUT TO NNI SYSTEM
FOR COMPUTER USE
AUX POWER SUPPLY
CONTACT MONITOR
C. MONITOR TEST CKT
RC PUMP MONITOR
POWER/ PUMPS TRIP
RC-PRES 2A2
SHUTDOWN BYPASS SWITCH
SHUTDOWN BYPASS PRES TRIP
SHUTDOWN B/P PRES TRIP
SIGNAL AVAILABLE FOR PRESSURIZER PRESSURE CONTROL
ALTERNATE FROM B43
(RC-PIC-2)
ALTERNATE FOR PRESSURIZER PRESSURE CONTROL TO NNI (RC-PIC-2)
PT-RC 2A2
PT-RC 2B2
PT-RC 2C1
POWER SUPPLY
REACTOR COOLANT PRESS XMTR
HI PRES TRIP
LO PRES TRIP
LOW PRES TRIP
HIGH PRES TRIP
PRESS TEST CKT
REACTOR COOLANT TEMP ELEMENT
TE-RC 3A4
TE-RC 3B4
TE-RC 3C4
BRIDGE NETWORK
TEMP TEST CKT
SIGNAL CONDR
PRES/ TEMP TRIP
HI TEMP TRIP
HIGH TEMP TRIP
AVERAGER
FROM SUBSYSTEM "D" (D18)
TO HIGH AUCTIONEER SUBSYSTEM "B"
FROM AVERAGER SUBSYSTEM "C"
TO ICS
POWER RANGE RCDR
NI-AER
HIGH AUCTIONEER
FROM (A16d) SUBSYSTEM "A"
TO COMP
TO NNI
TO /COMP
ALTERNATES TO SUBSYSTEM "A"
SUBSYSTEM "A" CABINET FAN(S) CABINET DOORS
SUBSYSTEM "A" REACTOR TRIP MODULE (SEE DIGITAL LOGIC DWG. DR047537)
SUBSYSTEM "B" CABINET FAN(S) CABINET DOORS
SUBSYSTEM "B" REACTOR TRIP MODULE (SEE DIGITAL LOGIC DWG. DR047536)
SUBSYSTEM "C" CABINET FAN(S) CABINET DOORS
SUBSYSTEM "C" REACTOR TRIP MODULE (SEE DIGITAL LOGIC DWG. DR047536)
SUBSYSTEM "D" CABINET FAN(S) CABINET DOORS
SUBSYSTEM "D" REACTOR TRIP MODULE (SEE DIGITAL LOGIC DWG. DR047536)
ROD WITHDRAWAL INHIBIT LOGIC (SEE DIGITAL DWG. DR047537)
ROD HOLD TO CRD
A = COMPUTER MONITORED ANALOG SIGNAL
B = MAIN BOARD PANEL MONITORED ANALOG SIGNAL
C = COMPUTER MONITORED CONTACTS
C = CONTACTS FOR ANNUNCIATOR
A = AUX. SHUTDOWN PANEL MONITORED ANALOG SIGNAL
NOTE:
1) DETECTOR POWER SUPPLY FAULT ANNUNCIATOR CONTACTS ARE WIRED OUT TO ONE ANNUNCIATOR FOR EACH SUBSYSTEM.
2) VALUES SHOWN ABOVE ARE TYPICAL. FOR SPECIFIC VALUES SEE PLANT SPECIFICATIONS.
3) MONITORED CONTACTS ARE NOT NECESSARILY DIRECTLY ANNUNCIATED.
BECHTEL COMPANY JOB NO. 7749
SIGNED DOCUMENT REVIEW STATUS
RECEIVED JUN 8 1981 NUCLEAR ENG.
RECORD SEPIA
7749-M-856-7-8567
BABCOCK & WILCOX DRAWING NUMBER 620-0014
B&W DOCUMENT NUMBER 23 01 301 08
ANALOG LOGIC DRAWING NUCLEAR INSTRUMENTATION SYSTEM
CUSTOMER: TOLEDO EDISON CO.
PLANT: DAVIS-BESSE UNIT 1
CONTRACTING ENG.: BECHTEL
B.&W.CO. JOB NO.: 1226H
CUST. ORDER NO.: G2000LB,E20-0014
BABCOCK & WILCOX BMD-LYNCHBURG, VA.
BAILEY METER CO WICKLIFFE, OHIO
E 80475346
REVISIONS
NO. DATE
T2 2-1-72
A1 1/18/72
1 2 3 4 5 6 7 8 9 10