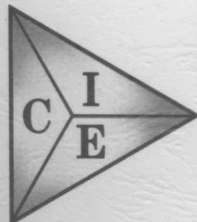


CAMP LEJEUNE
BUILDING AS-110
FILTER PROGRAM FOR MODICON PLC 612



**CONTROL &
INSTRUMENT
ENGINEERING**



Configuration /

CONFIGURATION OVERVIEW

PLC :		Size of Full Logic Area	02110
PLC Type		No. of I/O Map Words	00161
Model	MICRO-S-	I/O :	
System Memory	612/00	Number of Segments	2
Micro Child ID	3.1K	Number of Children	0
	None	I/O Locations	19

		Specials :	
Ranges :		Battery Coil	01600
0xxxx 00001 - 01600		Timer Register	41800
1xxxx 10001 - 10256		Time of Day Clock	41791 - 41798
3xxxx 30001 - 30032		Config Extension Size	0
4xxxx 40001 - 41800			
4xxxx <-> SFC	None		

0xxxx <-> SFC	None		

CONFIGURATION EXTENSION BLOCKS

No Configuration Extensions found

MICRO PORTS

MODE	RS232-1	RS232-2	RS485			
Single	MODBUS	MODBUS	ASCII			
MODBUS Parameters						
Port	Mode	Data Bits	Parity	Stop Bits	Baud	Address Delay
RS232-1	RTU	8	EVEN	1	9600	1 10 ms
RS232-2	RTU	8	EVEN	1	9600	1 10 ms
ASCII Parameters						
		8	EVEN	1	9600	

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

MICRO I/O MAP

Single I/O

PLC : MICRO 612/00 Holdup Time : N/A
 Used Inputs : 120 of 512 Points Used Outputs : 056 of 512 Points
 Next Input : ***** Next Output : *****

Location	Type	Reference Numbers		Data Type	Description
		Inputs	Outputs		
DISC I/O:	MIC128	10001 -10016	00001 -00016	BIN	16@24V I/O 12 RY
INT/CTR IN:	MIC140	10081 -10088	-	BIN	8 INTPT/CNTR INP
TMR/CTR IN:	MIC147	30032 -30032	-	BIN	16BIT TMR/CNTR VAL
ANALOG I/O:	MIC142	30001 -30005	40001 -40002	BIN	1-5V 12BIT 4I/02
DATA TRANS:	NotAvl	-	-	-	-

PLC : MICRO 612/00 Rack : 2

Slot	Module Type	Reference Numbers		Data type	Module Description
		Input	Output		
201	DAP208		00017 -00024		8-0 RELAY
202					
203					
204					
205					

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Segment: 01

FILTER CONTROL PLC LOGIC
SAME PROGRAM ALL THREE FILTERS

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Network List Segment: 01

```
+-----+ +-----+
|P000|--|#00001| START OF BACKWASH
+-----+ +-----+
|       |#00002|
+-----+ +-----+
|       |#00003|
+-----+ +-----+
|       |#00004|
+-----+ +-----+
|       |#00005|
+-----+ +-----+
|       |#00006|
+-----+ +-----+
|       |#00007|
+-----+ +-----+
|       |#00008| BW PUMP RUN CYCLE
+-----+ +-----+
|       |#00009|
+-----+ +-----+
|       |#00010|
+-----+ +-----+
|       |#00011|
+-----+ +-----+
|       |#00012|
+-----+ +-----+
|       |#00013|
+-----+ +-----+
|       |#00014|
+-----+ +-----+
|       |#00015|
+-----+ +-----+
|       |#00016|
+-----+ +-----+
|       |#00017|
+-----+ +-----+
|       |#00018|
+-----+ +-----+
|       |#00019|
+-----+ +-----+
|       |#00020|
+-----+ +-----+
|       |#00021|
+-----+ +-----+
|       |#00022|
+-----+ +-----+
|       |#00023|
+-----+ +-----+
|       |#00024|
+-----+ +-----+
```

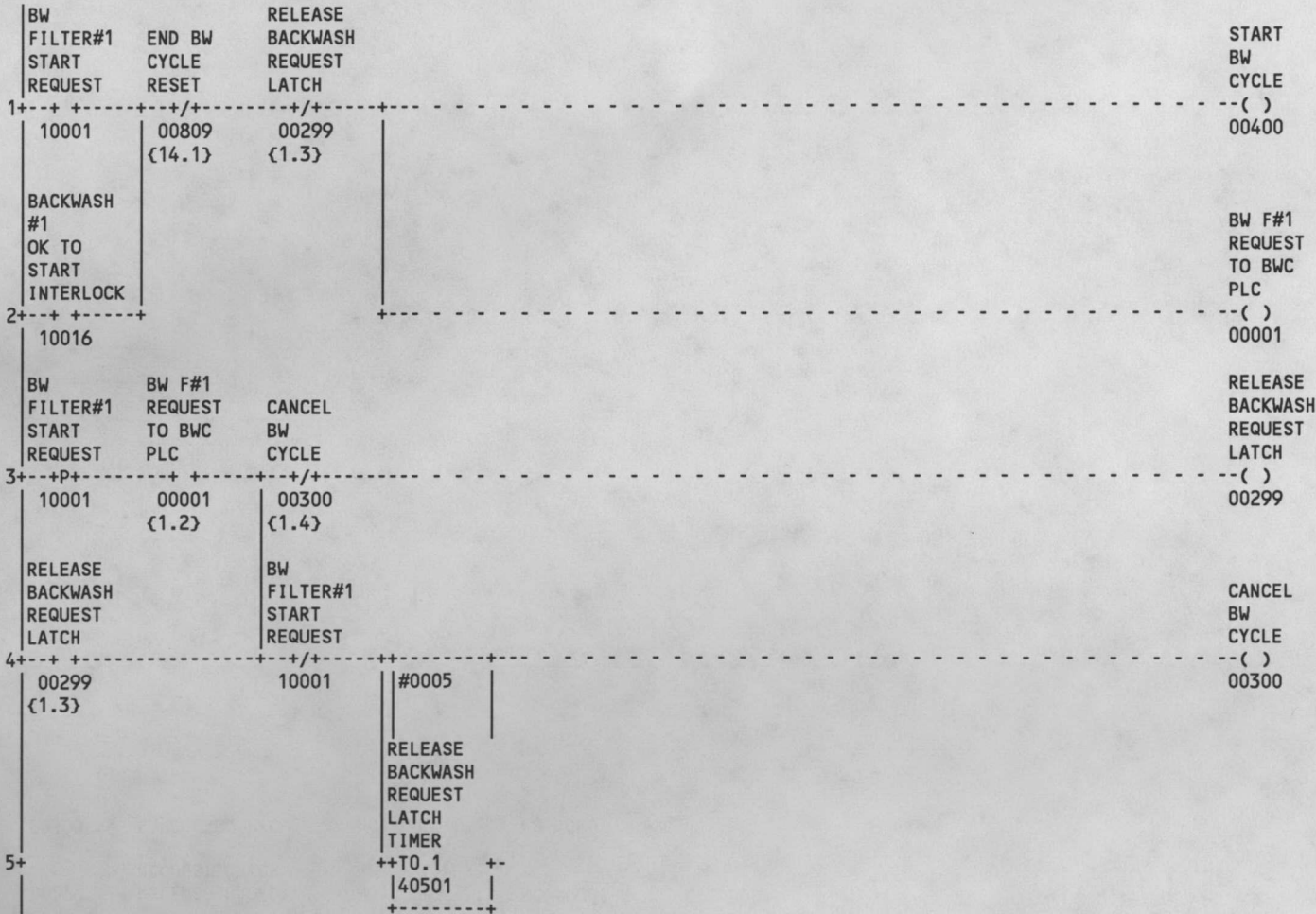

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Segment: 01 Network: #00001

START OF BACKWASH

WHEN THE OPERATOR PASSES THE START BACKWASH P.B., THE INTERCONNECT PLC RECEIVES THE REQUEST AND IF NO OTHER FILTERS ARE BEING BACKWASHED, A RETURN INPUT GIVES THE FILTER PLC PERMISSION TO START A BACKWASH.

THE BACKWASH CONTROLLER PLC SELECTS THE APPROPRIATE FILTER BW CONTROLLER OUTPUT AND ROUTES THIS SIGNAL TO THE BACKWASH ROF CONTROL VALVE



00400 START BW CYCLE CO:#0001 NC:#0002 NO:#0002 NO:#0023 NO:#0023 NO:#0023

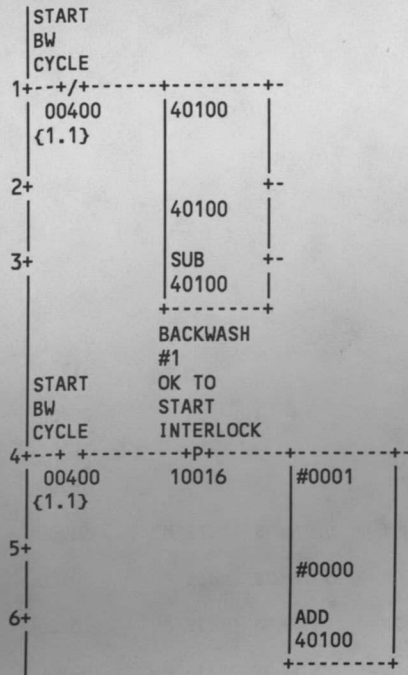
FILTER CONTROL PLC LOGIC
SAME PROGRAM ALL THREE FILTERS

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

00001	BW F#1 REQUEST TO BWC PLC	NO:#0024 NO:#0001	NO:#0024 CO:#0001	NO:#0024 D01_R1_S01_w
00299	RELEASE BACKWASH REQUEST LATCH	NO:#0001	NC:#0001	CO:#0001
00300	CANCEL BW CYCLE	NC:#0001	CO:#0001	

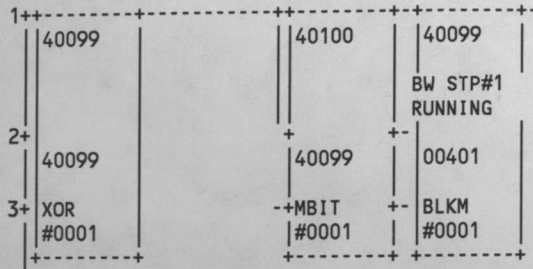
CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Segment: 01 Network: #00002



CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Segment: 01 Network: #0003



00401	BW STP#1 RUNNING	#0003	NO:#0006	NO:#0015	NO:#0016		
00402	BW STP#2 RUNNING	#0003	NO:#0007	NO:#0015	NO:#0016	NO:#0018	NO:#0018
00403	BW STP#3 RUNNING	#0003	NO:#0019	NO:#0008	NO:#0015	NO:#0016	NO:#0018
00404	BW STP#4 RUNNING	#0003	NO:#0009	NO:#0015	NO:#0016	NO:#0018	NO:#0019
00405	BW STP#5 RUNNING	#0003	NO:#0020	NO:#0010	NO:#0015	NO:#0016	NO:#0018
00406	BW STP#6 RUNNING	#0003	NO:#0019	NO:#0020	NO:#0021	NO:#0022	
00407	BW STP#7 RUNNING	#0003	NO:#0011	NO:#0015	NO:#0016		
00408	BW STP#8 RUNNING	#0003	NO:#0012	NO:#0015	NO:#0016	NO:#0017	
00409	BW STP#9 RUNNING	#0003	NO:#0013	NO:#0015	NO:#0016		
00410		#0003					
00411		#0003					
00412		#0003					
00413		#0003					
00414		#0003					
00415		#0003					
00416		#0003					

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

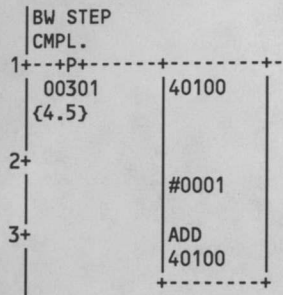
Segment: 01 Network: #00004



00301 BW STEP CMPL. CO:#0004 PT:#0005

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Segment: 01 Network: #00005



FILTER CONTROL PLC LOGIC
SAME PROGRAM ALL THREE FILTERS

Segment: 01 Network: #00005

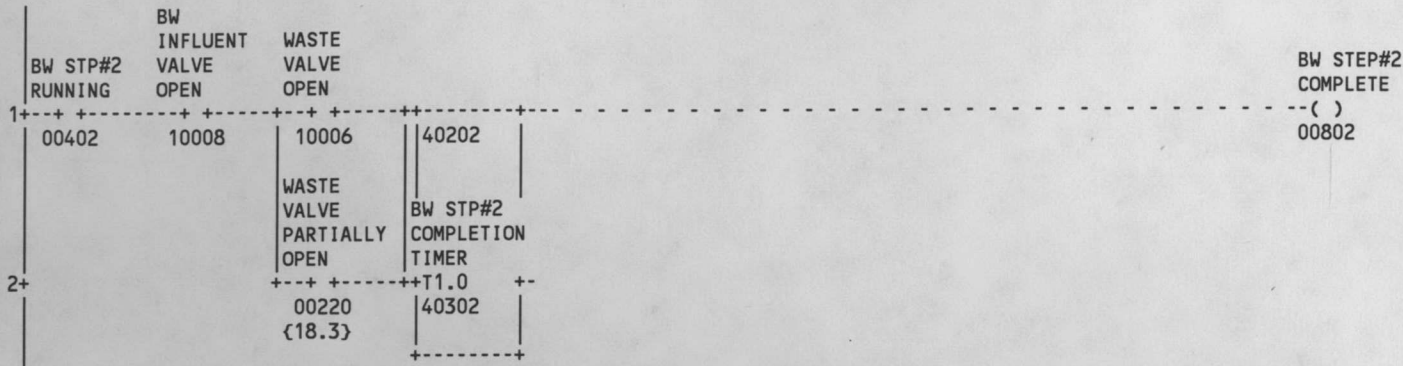
Segment: 01 Network: #00006

BW STP#1 RUNNING	INFLUENT VALVE CLOSED TIMED LOGIC STATUS	EFFLUENT VALVE CLOSED TIMED LOGIC STATUS	BW STEP#1 COMPLETE
00401	00502 {16.2}	00501 {15.2}	() 00801

00801 BW STEP#1 COMPLETE #0004 CO:#0006

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Segment: 01 Network: #00007



00802 BW STEP#2 COMPLETE #0004 CO:#0007

Segment: 01 Network: #00008

BW PUMP RUN CYCLE

THE TIME STORED IN REG. 40201 ADDED TO TIME STORED IN REG. 40415 (NET.#20)
 IS THE TOTAL TIME THE BW PUMP RUNS ALONE IN STEP 3 BEFORE GOING TO STEP 4
 WHERE THE SURFACE WASH VALVE OPENS AND STEP 5 WHERE THE SW AND BW PUMPS ARE
 BOTH RUNNING

BW STP#3 RUNNING	BW INFLUENT VALVE OPEN	WASTE VALVE OPEN	BW STP#3 COMPLETION TIMER S.P.	BW STEP#3 COMPLETE -() 00803
00403	10008	10006	40203	
			BW STP#3 COMPLETION TIMER +T1.0 +- 40303	

00803 BW STEP#3 COMPLETE #0004 CO:#0008

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

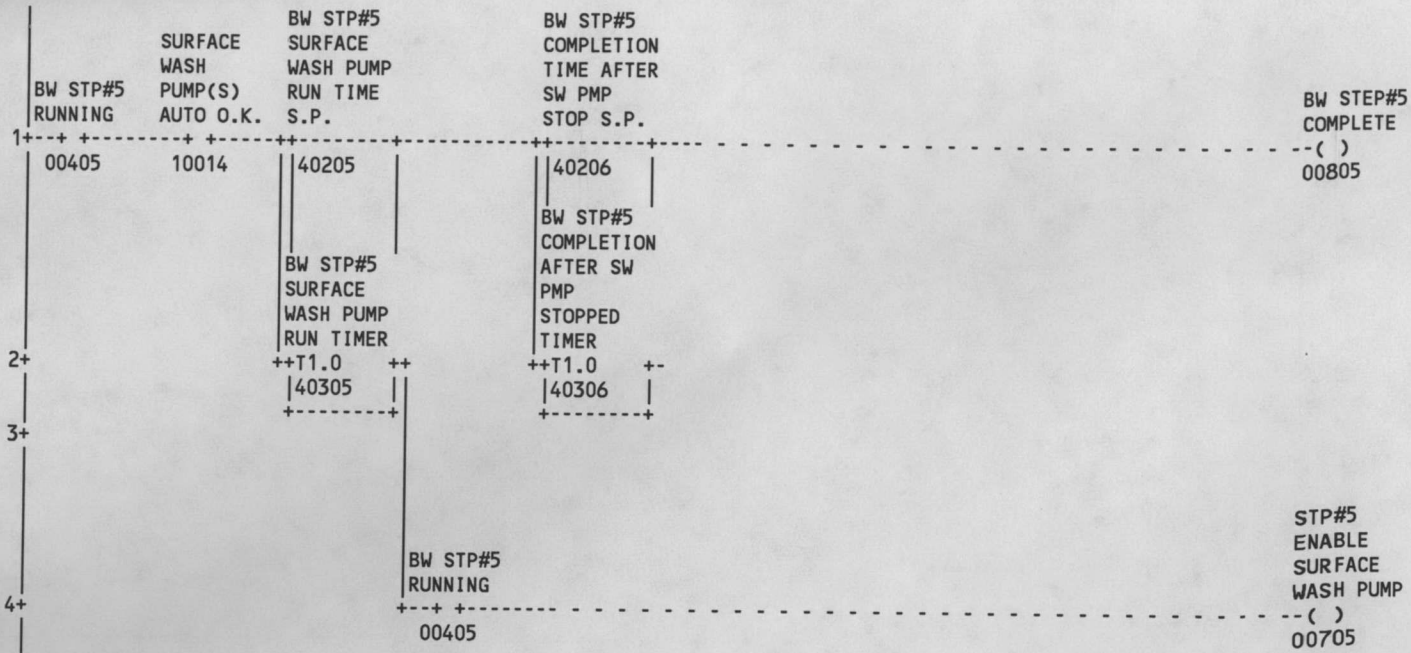
Segment: 01 Network: #00009

BW STP#4 RUNNING	SURFACE WASH VALVE OPEN	BW STEP#4 COMPLETE ()
00404	10010	00804

00804 BW STEP#4 COMPLETE #0004 CO:#0009

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Segment: 01 Network: #00010



00705 STP#5 ENABLE CO:#0010 NO:#0022
SURFACE WASH PUMP

00805 BW STEP#5 COMPLETE #0004 CO:#0010

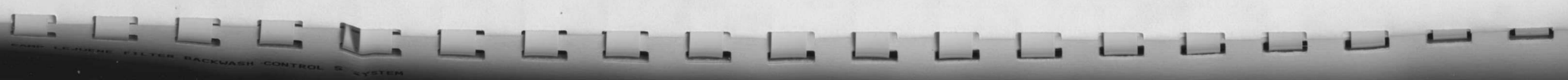
CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Segment: 01 Network: #00011

BW STP#6 RUNNING	EFFLUENT VALVE CLOSED TIMED LOGIC STATUS	INFLUENT VALVE CLOSED TIMED LOGIC STATUS	BW INFLUENT VALVE CLOSED	WASTE VALVE CLOSED	SURFACE WASH VALVE CLOSED	BW STEP#6 COMPLETE () 00806
00406	00501 {15.2}	00502 {16.2}	10009	10007	10011	

00806 BW STEP#6 COMPLETE #0004 CO:#0011

FILTER CONTROL PLC LOGIC
SAME PROGRAM ALL THREE FILTERS



CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Segment: 01 Network: #00012

1+	BW STP#7 RUNNING	INFLUENT VALVE OPEN TIMED LOGIC STATUS	REWASH VALVE OPEN	BW STP#7 REWASH TIME S.P.	BW STEP#7 COMPLETE
	00407	00504 (16.4)	10012	40207	() 00807
2+				BW STP#7 REWASH TIMER ++T1.0 +- 40307	

00807 BW STEP#7 COMPLETE #0004 CO:#0012

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Segment: 01 Network: #00013

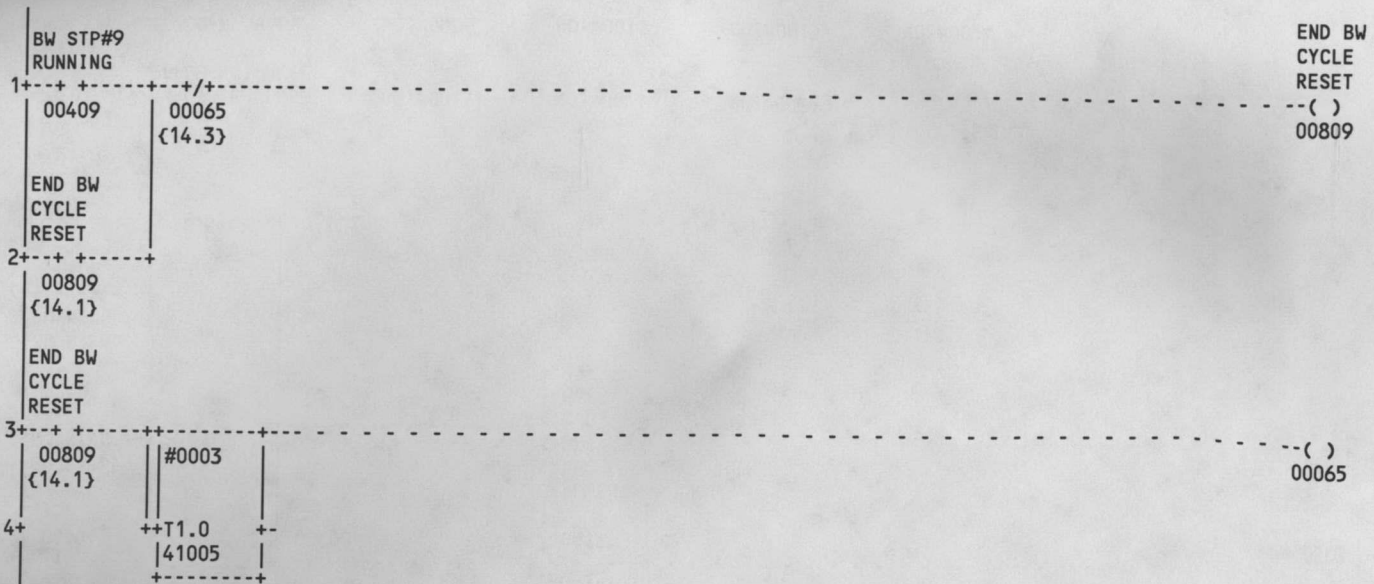
BW STP#8 RUNNING	REWASH VALVE CLOSED	EFFLUENT VALVE OPEN TIMED LOGIC STATUS	INFLUENT VALVE OPEN TIMED LOGIC STATUS	BW STEP#8 COMPLETE
00408	10013	00503 {15.4}	00504 {16.4}	00808

00808 BW STEP#8 COMPLETE #0004 CO:#0013

FILTER CONTROL PLC LOGIC
SAME PROGRAM ALL THREE FILTERS

Segment: 01 Network: #00013

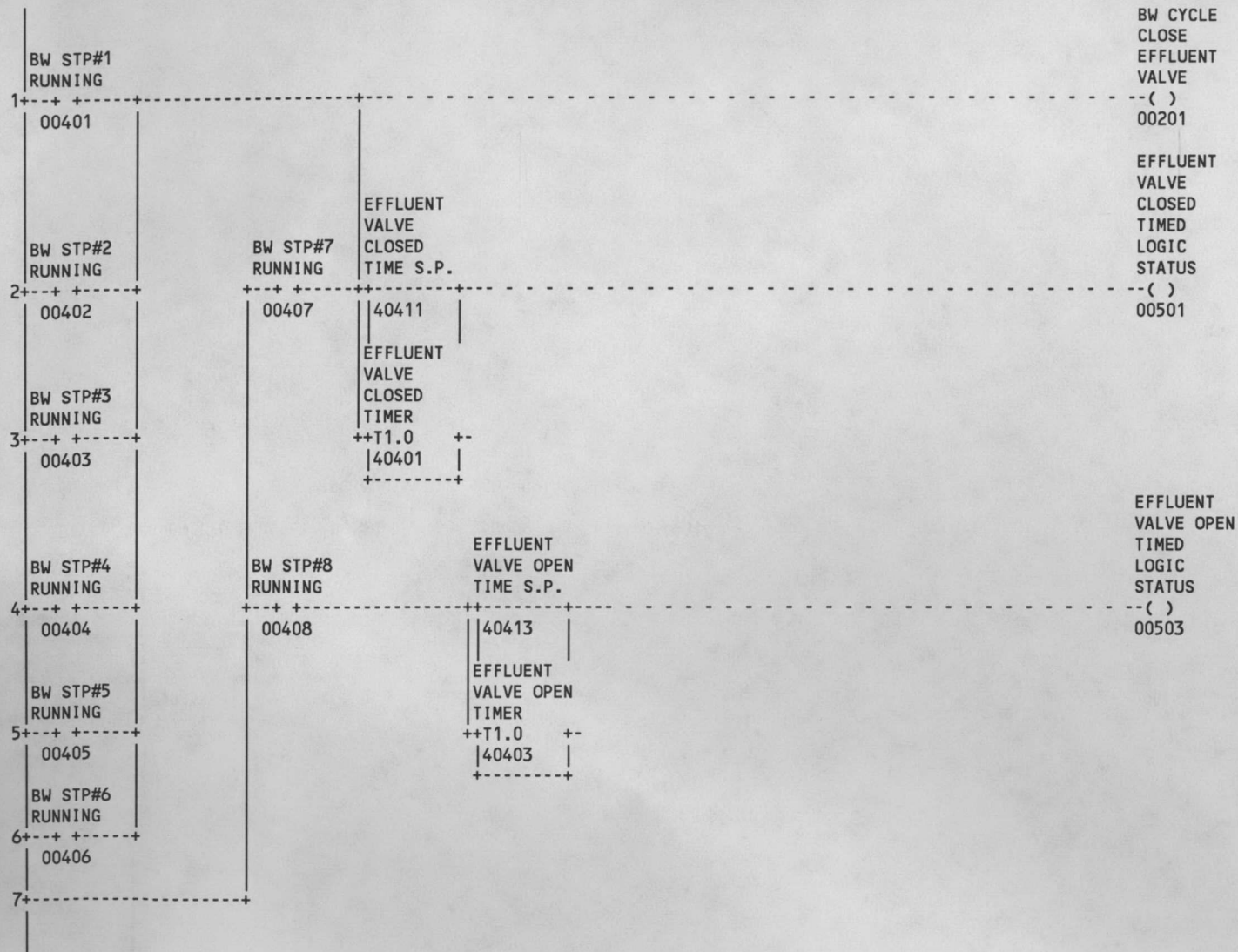
Segment: 01 Network: #00014



00809 END BW CYCLE RESET NC:#0001 #0004 NO:#0014 NO:#0014 CO:#0014
 00065 NC:#0014 CO:#0014

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Segment: 01 Network: #00015



00201 BW CYCLE CLOSE CO:#0015 NO:#0024 NC:#0024
EFFLUENT VALVE

00501 EFFLUENT VALVE NO:#0006 NO:#0011 CO:#0015 NC:#0024
CLOSED TIMED LOGIC STATUS

FILTER CONTROL PLC LOGIC
SAME PROGRAM ALL THREE FILTERS

FILTER CONTROL PLC
SAME PROGRAM ALL THREE FILTERS

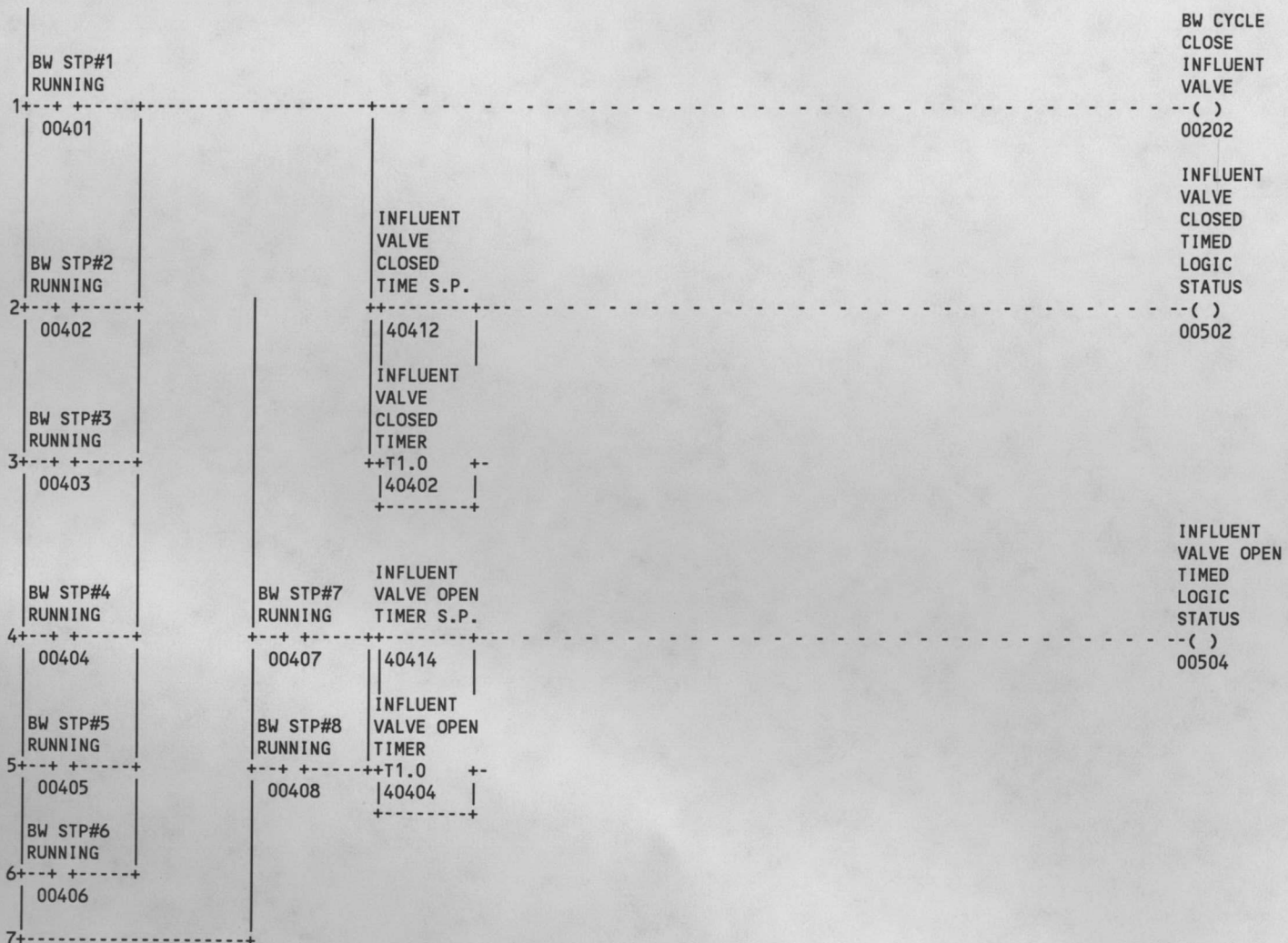
CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

00503 EFFLUENT VALVE OPEN NO:#0013 CO:#0015 NC:#0024
 TIMED LOGIC STATUS

FILTER CONTROL PLC LOGIC
SAME PROGRAM ALL THREE FILTERS

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Segment: 01 Network: #00016



BW CYCLE
CLOSE
INFLUENT
VALVE
--()
00202

INFLUENT
VALVE
CLOSED
TIMED
LOGIC
STATUS
--()
00502

INFLUENT
VALVE OPEN
TIMED
LOGIC
STATUS
--()
00504

00202 BW CYCLE CLOSE CO:#0016 NO:#0024 NC:#0024
INFLUENT VALVE

00502 INFLUENT VALVE NO:#0006 NO:#0011 CO:#0016 NC:#0024
CLOSED TIMED LOGIC
STATUS

FILTER CONTROL PLC LOGIC
SAME PROGRAM ALL THREE FILTERS

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

00504

INFLUENT VALVE OPEN NO:#0012
TIMED LOGIC STATUS

NO:#0013

CO:#0016

NC:#0024

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Segment: 01 Network: #00017

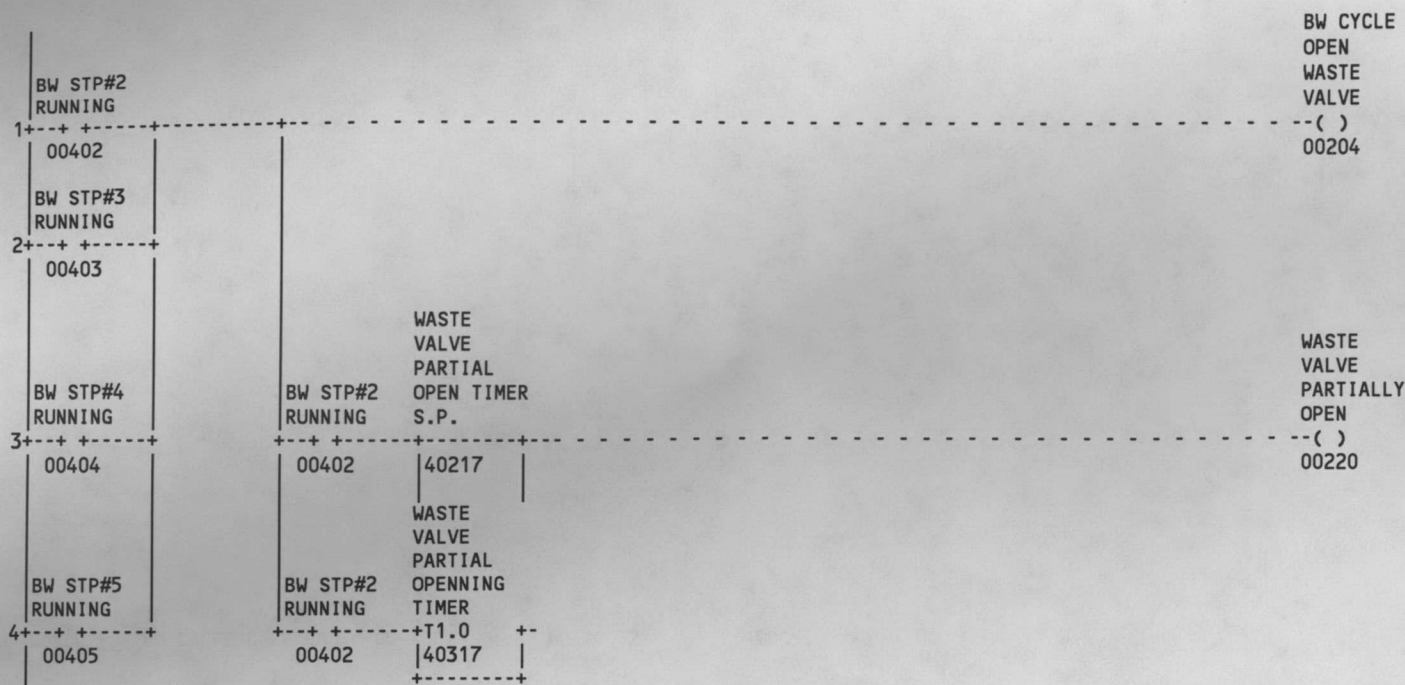


00203 BW CYCLE OPEN
REWASH VALVE

CO:#0017 NO:#0024 NC:#0024

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Segment: 01 Network: #00018

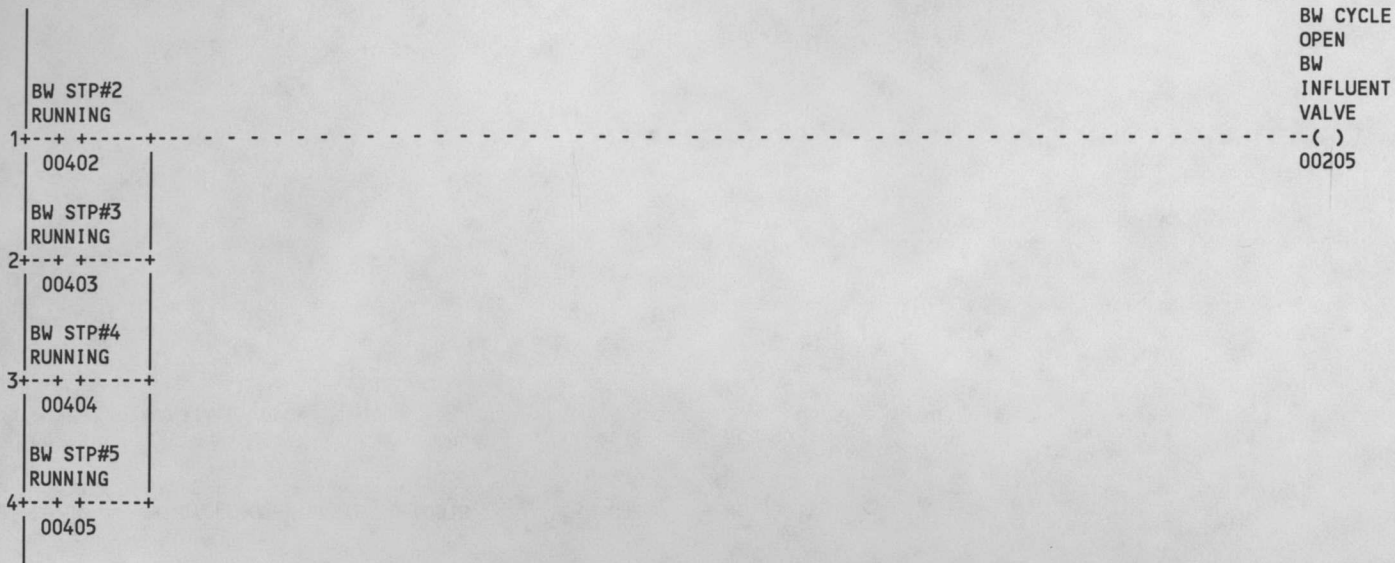


00204 BW CYCLE OPEN WASTE CO:#0018 NO:#0023 NC:#0023 VALVE

00220 WASTE VALVE NO:#0007 CO:#0018 NC:#0023 PARTIALLY OPEN

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

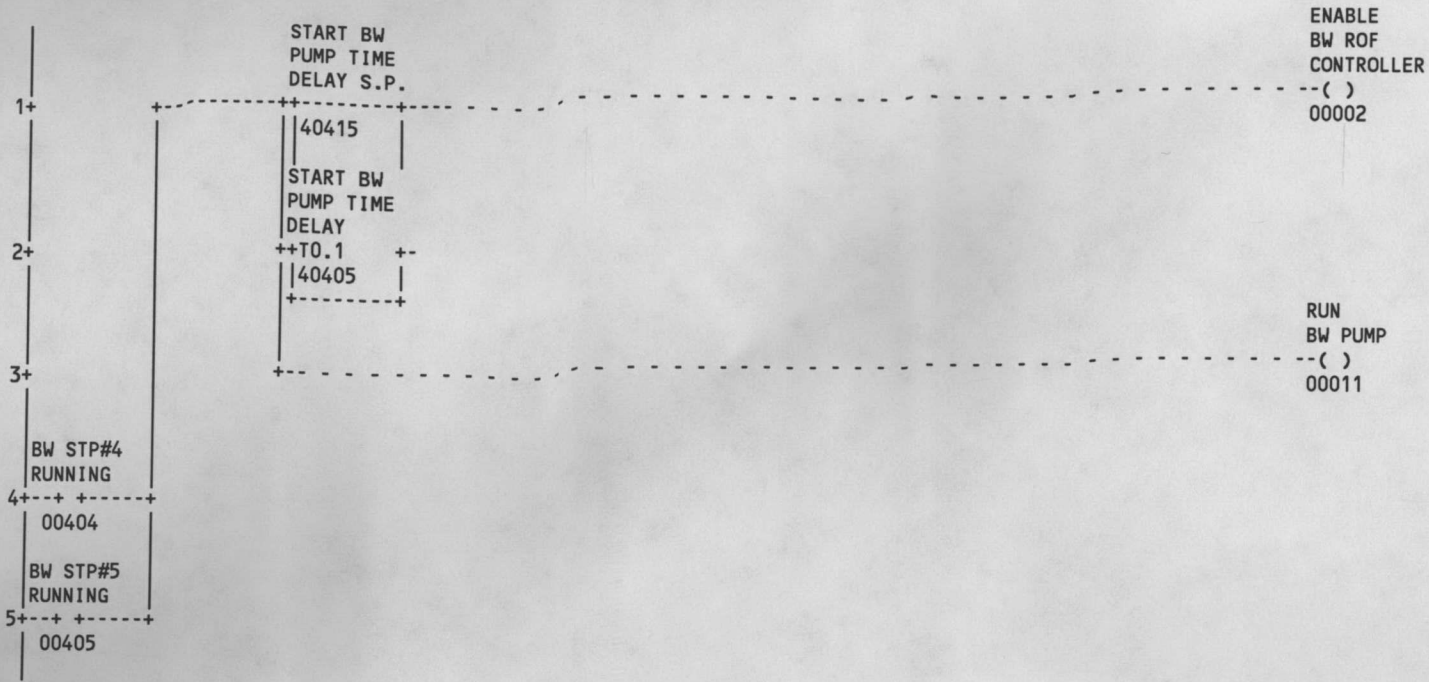
Segment: 01 Network: #00019



00205 BW CYCLE OPEN BW CO:#0019 NO:#0023 NC:#0023
INFLUENT VALVE

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

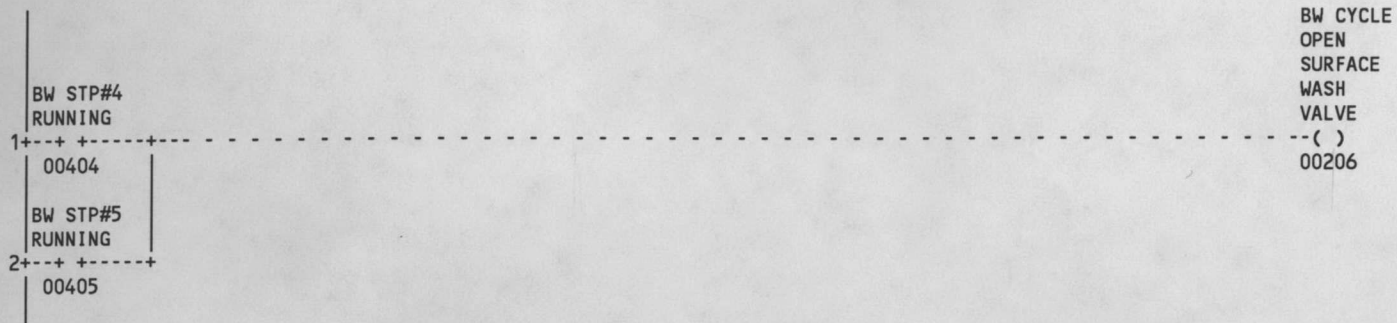
Segment: 01 Network: #00020



00011	RUN BW PUMP	CO:#0020	d01_R1__S01_w
00002	ENABLE BW ROF CONTROLLER	CO:#0020	d01_R1__S01_w

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Segment: 01 Network: #00021



00206 BW CYCLE OPEN CO:#0021 NO:#0023 NC:#0023
SURFACE WASH VALVE

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Segment: 01 Network: #00022

STP#5						RUN
ENABLE						SURFACE
SURFACE	BW STP#5					WASH
WASH PUMP	RUNNING					PUMP
1+ + + + +						--()
00705	00405					00012
{10.4}						
BACKWASH						
#1						
OK TO						
START						
INTERLOCK						IN SERVICE
2+ + + + +						--()
10016						00003

00003 IN SERVICE CO:#0022 D01_R1_S01_W

00012 RUN SURFACE WASH CO:#0022 D01_R1_S01_W
PUMP

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Segment: 01 Network: #00023

BACKWASH #1	OK TO START INTERLOCK	START BW CYCLE	BW CYCLE OPEN WASTE VALVE	WASTE VALVE PARTIALLY OPEN	
1+	10016	00400 {1.1}	00204 {18.1}	00220 {18.3}	OPEN WASTE VALVE 00009
2+			BW CYCLE OPEN WASTE VALVE 00204 {18.1}		CLOSE WASTE VALVE 00010
3+	10016	00400 {1.1}	00205 {19.1}		OPEN BW INFLUENT VALVE 00017
4+			BW CYCLE OPEN BW INFLUENT VALVE 00205 {19.1}		CLOSE BW INFLUENT VALVE 00018
5+	10016	00400 {1.1}	00206 {21.1}		OPEN SURFACE WASH VALVE 00019

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CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

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6+	BW CYCLE OPEN SURFACE WASH VALVE	+--+/+--+ 00206 {21.1}	--- () 00020
----	--	------------------------------	------------------

00009	OPEN WASTE VALVE	CO:#0023	D01_R1_S01_w
00010	CLOSE WASTE VALVE	CO:#0023	D01_R1_S01_w
00017	OPEN BW INFLUENT VALVE	CO:#0023	D01_R2_S01_w
00018	CLOSE BW INFLUENT VALVE	CO:#0023	D01_R2_S01_w
00019	OPEN SURFACE WASH VALVE	CO:#0023	D01_R2_S01_w
00020	CLOSE SURFACE WASH VALVE	CO:#0023	D01_R2_S01_w

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Segment: 01 Network: #00024

1+	BACKWASH #1		EFFLUENT VALVE CLOSED		
	OK TO START INTERLOCK	START BW CYCLE	BW CYCLE CLOSE EFFLUENT VALVE	EFFLUENT VALVE LOGIC STATUS	CLOSE EFFLUENT VALVE
	10016	00400 {1.1}	00201 {15.1}	00501 {15.2}	--() 00008
2+			BW CYCLE CLOSE EFFLUENT VALVE	EFFLUENT VALVE OPEN TIMED LOGIC STATUS	OPEN EFFLUENT VALVE
			00201 {15.1}	00503 {15.4}	--() 00007
3+	BACKWASH #1		INFLUENT VALVE CLOSED		
	OK TO START INTERLOCK	START BW CYCLE	BW CYCLE CLOSE INFLUENT VALVE	INFLUENT VALVE LOGIC STATUS	CLOSE INFLUENT VALVE
	10016	00400 {1.1}	00202 {16.1}	00502 {16.2}	--() 00006
4+			BW CYCLE CLOSE INFLUENT VALVE	INFLUENT VALVE OPEN TIMED LOGIC STATUS	OPEN INFLUENT VALVE
			00202 {16.1}	00504 {16.4}	--() 00005
5+	BACKWASH #1		BW CYCLE OPEN REWASH VALVE		
	OK TO START INTERLOCK	START BW CYCLE	BW CYCLE OPEN REWASH VALVE		OPEN REWASH VALVE
	10016	00400 {1.1}	00203 {17.1}		--() 00021

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CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

<<<<< FROM PREV PAGE

6+		BW CYCLE		
		OPEN		
		REWASH		
		VALVE		
		+--+/+	-----	
		00203		
		{17.1}		
				CLOSE
				REWASH
				VALVE
				--()
				00022

00008	CLOSE EFFLUENT VALVE	CO:#0024	D01_R1_S01_w
00007	OPEN EFFLUENT VALVE	CO:#0024	D01_R1_S01_w
00006	CLOSE INFLUENT VALVE	CO:#0024	D01_R1_S01_w
00005	OPEN INFLUENT VALVE	CO:#0024	D01_R1_S01_w
00021	OPEN REWASH VALVE	CO:#0024	D01_R2_S01_w
00022	CLOSE REWASH VALVE	CO:#0024	D01_R2_S01_w

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Global Numeric Cross Reference List 0X

REF:	SYMBOL:/DESCRIPTION:	LOCATION:		
00001	BW F#1 REQUEST TO BWC PLC	NO:#0001	CO:#0001	D01_R1_S01_w
00002	ENABLE BW ROF CONTROLLER	CO:#0020		D01_R1_S01_w
00003	IN SERVICE	CO:#0022		D01_R1_S01_w
00004		D01_R1_S01_w		
00005	OPEN INFLUENT VALVE	CO:#0024		D01_R1_S01_w
00006	CLOSE INFLUENT VALVE	CO:#0024		D01_R1_S01_w
00007	OPEN EFFLUENT VALVE	CO:#0024		D01_R1_S01_w
00008	CLOSE EFFLUENT VALVE	CO:#0024		D01_R1_S01_w
00009	OPEN WASTE VALVE	CO:#0023		D01_R1_S01_w
00010	CLOSE WASTE VALVE	CO:#0023		D01_R1_S01_w
00011	RUN BW PUMP	CO:#0020		D01_R1_S01_w
00012	RUN SURFACE WASH PUMP	CO:#0022		D01_R1_S01_w
00013		D01_R1_S01_w		
00014		D01_R1_S01_w		
00015		D01_R1_S01_w		
00016		D01_R1_S01_w		
00017	OPEN BW INFLUENT VALVE	CO:#0023		D01_R2_S01_w
00018	CLOSE BW INFLUENT VALVE	CO:#0023		D01_R2_S01_w
00019	OPEN SURFACE WASH VALVE	CO:#0023		D01_R2_S01_w
00020	CLOSE SURFACE WASH VALVE	CO:#0023		D01_R2_S01_w
00021	OPEN REWASH VALVE	CO:#0024		D01_R2_S01_w
00022	CLOSE REWASH VALVE	CO:#0024		D01_R2_S01_w
00023		D01_R2_S01_w		
00024		D01_R2_S01_w		

FILTER CONTROL PLC LOGIC
SAME PROGRAM ALL THREE FILTERS

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

00065		NC:#0014	CO:#0014				
00201	BW CYCLE CLOSE EFFLUENT VALVE	CO:#0015	NO:#0024	NC:#0024			
00202	BW CYCLE CLOSE INFLUENT VALVE	CO:#0016	NO:#0024	NC:#0024			
00203	BW CYCLE OPEN REWASH VALVE	CO:#0017	NO:#0024	NC:#0024			
00204	BW CYCLE OPEN WASTE VALVE	CO:#0018	NO:#0023	NC:#0023			
00205	BW CYCLE OPEN BW INFLUENT VALVE	CO:#0019	NO:#0023	NC:#0023			
00206	BW CYCLE OPEN SURFACE WASH VALVE	CO:#0021	NO:#0023	NC:#0023			
00220	WASTE VALVE PARTIALLY OPEN	NO:#0007	CO:#0018	NC:#0023			
00299	RELEASE BACKWASH REQUEST LATCH	NO:#0001	NC:#0001	CO:#0001			
00300	CANCEL BW CYCLE	NC:#0001	CO:#0001				
00301	BW STEP Cmpl.	CO:#0004	PT:#0005				
00400	START BW CYCLE	CO:#0001 NO:#0024	NC:#0002 NO:#0024	NO:#0002 NO:#0024	NO:#0023	NO:#0023	NO:#0023
00401	BW STP#1 RUNNING	#0003	NO:#0006	NO:#0015	NO:#0016		
00402	BW STP#2 RUNNING	#0003 NO:#0018	NO:#0007 NO:#0019	NO:#0015	NO:#0016	NO:#0018	NO:#0018
00403	BW STP#3 RUNNING	#0003	NO:#0008	NO:#0015	NO:#0016	NO:#0018	NO:#0019
00404	BW STP#4 RUNNING	#0003 NO:#0020	NO:#0009 NO:#0021	NO:#0015	NO:#0016	NO:#0018	NO:#0019
00405	BW STP#5 RUNNING	#0003 NO:#0019	NO:#0010 NO:#0020	NO:#0010 NO:#0021	NO:#0015	NO:#0016	NO:#0018
00406	BW STP#6 RUNNING	#0003	NO:#0011	NO:#0015	NO:#0016		
00407	BW STP#7 RUNNING	#0003	NO:#0012	NO:#0015	NO:#0016	NO:#0017	
00408	BW STP#8 RUNNING	#0003	NO:#0013	NO:#0015	NO:#0016		
00409	BW STP#9 RUNNING	#0003	NO:#0014				
00410		#0003					
00411		#0003					
00412		#0003					
00413		#0003					
00414		#0003					
00415		#0003					

FILTER CONTROL PLC LOGIC
SAME PROGRAM ALL THREE FILTERS

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

00416		#0003				
00501	EFFLUENT VALVE CLOSED TIMED LOGIC STATUS	NO:#0006	NO:#0011	CO:#0015	NC:#0024	
00502	INFLUENT VALVE CLOSED TIMED LOGIC STATUS	NO:#0006	NO:#0011	CO:#0016	NC:#0024	
00503	EFFLUENT VALVE OPEN TIMED LOGIC STATUS	NO:#0013	CO:#0015	NC:#0024		
00504	INFLUENT VALVE OPEN TIMED LOGIC STATUS	NO:#0012	NO:#0013	CO:#0016	NC:#0024	
00705	STP#5 ENABLE SURFACE WASH PUMP	CO:#0010	NO:#0022			
00801	BW STEP#1 COMPLETE	#0004	CO:#0006			
00802	BW STEP#2 COMPLETE	#0004	CO:#0007			
00803	BW STEP#3 COMPLETE	#0004	CO:#0008			
00804	BW STEP#4 COMPLETE	#0004	CO:#0009			
00805	BW STEP#5 COMPLETE	#0004	CO:#0010			
00806	BW STEP#6 COMPLETE	#0004	CO:#0011			
00807	BW STEP#7 COMPLETE	#0004	CO:#0012			
00808	BW STEP#8 COMPLETE	#0004	CO:#0013			
00809	END BW CYCLE RESET	NC:#0001	#0004	NO:#0014	NO:#0014	CO:#0014
00810		#0004				
00811		#0004				
00812		#0004				
00813		#0004				
00814		#0004				
00815		#0004				
00816		#0004				
01600	Battery Coil					

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Global Numeric Cross Reference List 1X

REF:	SYMBOL:/DESCRIPTION:	LOCATION:	PT:#0001	NC:#0001	D01_R1_S01_r			
10001	BW FILTER#1 START REQUEST	NO:#0001						
10002	INFLUENT VALVE OPEN	D01_R1_S01_r						
10003	INFLUENT VALVE CLOSED	D01_R1_S01_r						
10004	EFFLUENT VALVE OPEN	D01_R1_S01_r						
10005	EFFLUENT VALVE CLOSED	D01_R1_S01_r						
10006	WASTE VALVE OPEN	NO:#0007	NO:#0008		D01_R1_S01_r			
10007	WASTE VALVE CLOSED	NO:#0011			D01_R1_S01_r			
10008	BW INFLUENT VALVE OPEN	NO:#0007	NO:#0008		D01_R1_S01_r			
10009	BW INFLUENT VALVE CLOSED	NO:#0011			D01_R1_S01_r			
10010	SURFACE WASH VALVE OPEN	NO:#0009			D01_R1_S01_r			
10011	SURFACE WASH VALVE CLOSED	NO:#0011			D01_R1_S01_r			
10012	REWASH VALVE OPEN	NO:#0012			D01_R1_S01_r			
10013	REWASH VALVE CLOSED	NO:#0013			D01_R1_S01_r			
10014	SURFACE WASH PUMP(S) AUTO O.K.	NO:#0010			D01_R1_S01_r			
10015	BACKWASH PUMP(S) AUTO O.K.	D01_R1_S01_r						
10016	BACKWASH #1 OK TO START INTERLOCK	NO:#0001 NO:#0024	PT:#0002 NO:#0024	NO:#0022 NO:#0024	NO:#0023 D01_R1_S01_r	NO:#0023	NO:#0023	
10081		D01_R1_S02_r						
10082		D01_R1_S02_r						
10083		D01_R1_S02_r						
10084		D01_R1_S02_r						
10085		D01_R1_S02_r						
10086		D01_R1_S02_r						
10087		D01_R1_S02_r						
10088		D01_R1_S02_r						

FILTER CONTROL PLC LOGIC
SAME PROGRAM ALL THREE FILTERS

REF:	SYMBOL:/DESCRIPTION:	LOCATION:
30001		D01_R1_S04_r
30002		D01_R1_S04_r
30003		D01_R1_S04_r
30004		D01_R1_S04_r
30005		D01_R1_S04_r
30032		D01_R1_S03_r

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Global Numeric Cross Reference List 4X

REF:	SYMBOL:/DESCRIPTION:	LOCATION:						
40001		D01_R1_S04_W						
40002		D01_R1_S04_W						
40050		#0004	#0004	#0004				
40051		#0004	#0004	#0004	#0004			
40060		#0004	#0004	#0004				
40061		#0004	#0004	#0004				
40099		#0003	#0003	#0003	#0003			
40100		#0002	#0002	#0002	#0002	#0003	#0005	
		#0005						
40202		#0007						
40203	BW STP#3 COMPLETION TIMER S.P.	#0008						
40205	BW STP#5 SURFACE WASH PUMP RUN TIME S.P.	#0010						
40206	BW STP#5 COMPLETION TIME AFTER SW PMP STOP S.P.	#0010						
40207	BW STP#7 REWASH TIME S.P.	#0012						
40217	WASTE VALVE PARTIAL OPEN TIMER S.P.	#0018						
40302	BW STP#2 COMPLETION TIMER	#0007						
40303	BW STP#3 COMPLETION TIMER	#0008						
40305	BW STP#5 SURFACE WASH PUMP RUN TIMER	#0010						
40306	BW STP#5 COMPLETION AFTER SW PMP STOPPED TIMER	#0010						
40307	BW STP#7 REWASH TIMER	#0012						
40317	WASTE VALVE PARTIAL OPENING TIMER	#0018						
40401	EFFLUENT VALVE CLOSED TIMER	#0015						
40402	INFLUENT VALVE CLOSED TIMER	#0016						

FILTER CONTROL PLC LOGIC
SAME PROGRAM ALL THREE FILTERS

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

40403	EFFLUENT VALVE OPEN #0015 TIMER
40404	INFLUENT VALVE OPEN #0016 TIMER
40405	START BW PUMP TIME #0020 DELAY
40411	EFFLUENT VALVE #0015 CLOSED TIME S.P.
40412	INFLUENT VALVE #0016 CLOSED TIME S.P.
40413	EFFLUENT VALVE OPEN #0015 TIME S.P.
40414	INFLUENT VALVE OPEN #0016 TIMER S.P.
40415	START BW PUMP TIME #0020 DELAY S.P.
40501	RELEASE BACKWASH #0001 REQUEST LATCH TIMER
41005	#0014
41791	TOD CLOCK
41792	TOD CLOCK
41793	TOD CLOCK
41794	TOD CLOCK
41795	TOD CLOCK
41796	TOD CLOCK
41797	TOD CLOCK
41798	TOD CLOCK
41800	TIMER REG

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Global Alphabetic Cross Reference List

REF:	SYMBOL:/DESCRIPTION:	LOCATION:					
00001	BW F#1 REQUEST TO BWC PLC	NO:#0001	CO:#0001	D01_R1_S01_w			
00002	ENABLE BW ROF CONTROLLER	CO:#0020	D01_R1_S01_w				
00003	IN SERVICE	CO:#0022	D01_R1_S01_w				
10016	BACKWASH #1 OK TO START INTERLOCK	NO:#0001 NO:#0024	PT:#0002 NO:#0024	NO:#0022 NO:#0024	NO:#0023 D01_R1_S01_r	NO:#0023	NO:#0023
00005	OPEN INFLUENT VALVE	CO:#0024	D01_R1_S01_w				
00006	CLOSE INFLUENT VALVE	CO:#0024	D01_R1_S01_w				
00007	OPEN EFFLUENT VALVE	CO:#0024	D01_R1_S01_w				
00008	CLOSE EFFLUENT VALVE	CO:#0024	D01_R1_S01_w				
00009	OPEN WASTE VALVE	CO:#0023	D01_R1_S01_w				
00010	CLOSE WASTE VALVE	CO:#0023	D01_R1_S01_w				
00011	RUN BW PUMP	CO:#0020	D01_R1_S01_w				
00012	RUN SURFACE WASH PUMP	CO:#0022	D01_R1_S01_w				
40501	RELEASE BACKWASH REQUEST LATCH TIMER	#0001					
40415	START BW PUMP TIME DELAY S.P.	#0020					
40414	INFLUENT VALVE OPEN TIMER S.P.	#0016					
40413	EFFLUENT VALVE OPEN TIME S.P.	#0015					
00017	OPEN BW INFLUENT VALVE	CO:#0023	D01_R2_S01_w				
00018	CLOSE BW INFLUENT VALVE	CO:#0023	D01_R2_S01_w				
00019	OPEN SURFACE WASH	CO:#0023	D01_R2_S01_w				

FILTER CONTROL PLC LOGIC
SAME PROGRAM ALL THREE FILTERS

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

VALVE

00020	CLOSE SURFACE WASH VALVE	CO:#0023	D01_R2_S01_w				
00021	OPEN REWASH VALVE	CO:#0024	D01_R2_S01_w				
00022	CLOSE REWASH VALVE	CO:#0024	D01_R2_S01_w				
40412	INFLUENT VALVE CLOSED TIME S.P.	#0016					
40411	EFFLUENT VALVE CLOSED TIME S.P.	#0015					
40405	START BW PUMP TIME DELAY	#0020					
00201	BW CYCLE CLOSE EFFLUENT VALVE	CO:#0015	NO:#0024	NC:#0024			
00202	BW CYCLE CLOSE INFLUENT VALVE	CO:#0016	NO:#0024	NC:#0024			
00203	BW CYCLE OPEN REWASH VALVE	CO:#0017	NO:#0024	NC:#0024			
00204	BW CYCLE OPEN WASTE VALVE	CO:#0018	NO:#0023	NC:#0023			
00205	BW CYCLE OPEN BW INFLUENT VALVE	CO:#0019	NO:#0023	NC:#0023			
00206	BW CYCLE OPEN SURFACE WASH VALVE	CO:#0021	NO:#0023	NC:#0023			
00220	WASTE VALVE PARTIALLY OPEN	NO:#0007	CO:#0018	NC:#0023			
00299	RELEASE BACKWASH REQUEST LATCH	NO:#0001	NC:#0001	CO:#0001			
00300	CANCEL BW CYCLE	NC:#0001	CO:#0001				
00301	BW STEP Cmpl.	CO:#0004	PT:#0005				
00400	START BW CYCLE	CO:#0001 NO:#0024	NC:#0002 NO:#0024 NO:#0006	NO:#0002 NO:#0024 NO:#0015	NO:#0023	NO:#0023	NO:#0023
00401	BW STP#1 RUNNING	#0003	NO:#0006	NO:#0016			
00402	BW STP#2 RUNNING	#0003 NO:#0018	NO:#0007 NO:#0019	NO:#0015	NO:#0016	NO:#0018	NO:#0018
00403	BW STP#3 RUNNING	#0003	NO:#0008	NO:#0015	NO:#0016	NO:#0018	NO:#0019
00404	BW STP#4 RUNNING	#0003	NO:#0009	NO:#0015	NO:#0016	NO:#0018	NO:#0019

FILTER CONTROL PLC LOGIC
SAME PROGRAM ALL THREE FILTERS

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

00405	BW STP#5 RUNNING	NO:#0020 #0003 NO:#0019	NO:#0021 NO:#0010 NO:#0020 NO:#0011	NO:#0010 NO:#0021 NO:#0015	NO:#0015 NO:#0022 NO:#0016	NO:#0016	NO:#0018
00406	BW STP#6 RUNNING	#0003	NO:#0011	NO:#0015	NO:#0016		
00407	BW STP#7 RUNNING	#0003	NO:#0012	NO:#0015	NO:#0016	NO:#0017	
00408	BW STP#8 RUNNING	#0003	NO:#0013	NO:#0015	NO:#0016		
00409	BW STP#9 RUNNING	#0003	NO:#0014				
40404	INFLUENT VALVE OPEN TIMER	#0016					
40403	EFFLUENT VALVE OPEN TIMER	#0015					
40402	INFLUENT VALVE CLOSED TIMER	#0016					
40401	EFFLUENT VALVE CLOSED TIMER	#0015					
40317	WASTE VALVE PARTIAL OPENNING TIMER	#0018					
40307	BW STP#7 REWASH TIMER	#0012					
40306	BW STP#5 COMPLETION AFTER SW PMP STOPPED TIMER	#0010					
00501	EFFLUENT VALVE CLOSED TIMED LOGIC STATUS	NO:#0006	NO:#0011	CO:#0015	NC:#0024		
00502	INFLUENT VALVE CLOSED TIMED LOGIC STATUS	NO:#0006	NO:#0011	CO:#0016	NC:#0024		
00503	EFFLUENT VALVE OPEN TIMED LOGIC STATUS	NO:#0013	CO:#0015	NC:#0024			
00504	INFLUENT VALVE OPEN TIMED LOGIC STATUS	NO:#0012	NO:#0013	CO:#0016	NC:#0024		
00705	STP#5 ENABLE SURFACE WASH PUMP	CO:#0010	NO:#0022				
00801	BW STEP#1 COMPLETE	#0004	CO:#0006				
00802	BW STEP#2 COMPLETE	#0004	CO:#0007				
00803	BW STEP#3 COMPLETE	#0004	CO:#0008				

FILTER CONTROL PLC LOGIC
SAME PROGRAM ALL THREE FILTERS

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

00804	BW STEP#4 COMPLETE	#0004				CO:#0009
00805	BW STEP#5 COMPLETE	#0004				CO:#0010
00806	BW STEP#6 COMPLETE	#0004				CO:#0011
00807	BW STEP#7 COMPLETE	#0004				CO:#0012
00808	BW STEP#8 COMPLETE	#0004				CO:#0013
00809	END BW CYCLE RESET	NC:#0001	#0004	NO:#0014	NO:#0014	CO:#0014
40305	BW STP#5 SURFACE WASH PUMP RUN TIMER	#0010				
40303	BW STP#3 COMPLETION TIMER	#0008				
40302	BW STP#2 COMPLETION TIMER	#0007				
40217	WASTE VALVE PARTIAL OPEN TIMER S.P.	#0018				
40207	BW STP#7 REWASH TIME S.P.	#0012				
40206	BW STP#5 COMPLETION TIME AFTER SW PMP STOP S.P.	#0010				
40205	BW STP#5 SURFACE WASH PUMP RUN TIME S.P.	#0010				
40203	BW STP#3 COMPLETION TIMER S.P.	#0008				
10001	BW FILTER#1 START REQUEST	NO:#0001	PT:#0001	NC:#0001		D01_R1_S01_r
10002	INFLUENT VALVE OPEN					D01_R1_S01_r
10003	INFLUENT VALVE CLOSED					D01_R1_S01_r
10004	EFFLUENT VALVE OPEN					D01_R1_S01_r
10005	EFFLUENT VALVE CLOSED					D01_R1_S01_r
10006	WASTE VALVE OPEN	NO:#0007	NO:#0008			D01_R1_S01_r
10007	WASTE VALVE CLOSED	NO:#0011				D01_R1_S01_r

FILTER CONTROL PLC LOGIC
SAME PROGRAM ALL THREE FILTERS

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

10008	BW INFLUENT VALVE OPEN	NO:#0007	NO:#0008	D01_R1_S01_r
10009	BW INFLUENT VALVE CLOSED	NO:#0011		D01_R1_S01_r
10010	SURFACE WASH VALVE OPEN	NO:#0009		D01_R1_S01_r
10011	SURFACE WASH VALVE CLOSED	NO:#0011		D01_R1_S01_r
10012	REWASH VALVE OPEN	NO:#0012		D01_R1_S01_r
10013	REWASH VALVE CLOSED	NO:#0013		D01_R1_S01_r
10014	SURFACE WASH PUMP(S) AUTO O.K.	NO:#0010		D01_R1_S01_r
10015	BACKWASH PUMP(S) AUTO O.K.	D01_R1_S01_r		
00004		D01_R1_S01_w		
00013		D01_R1_S01_w		
00014		D01_R1_S01_w		
00015		D01_R1_S01_w		
00016		D01_R1_S01_w		
00023		D01_R2_S01_w		
00024		D01_R2_S01_w		
00065		NC:#0014	CO:#0014	
00410		#0003		
00411		#0003		
00412		#0003		
00413		#0003		
00414		#0003		
00415		#0003		
00416		#0003		
00810		#0004		
00811		#0004		
00812		#0004		
00813		#0004		
00814		#0004		
00815		#0004		
00816		#0004		
01600	Battery Coil			
10081		D01_R1_S02_r		
10082		D01_R1_S02_r		
10083		D01_R1_S02_r		
10084		D01_R1_S02_r		
10085		D01_R1_S02_r		
10086		D01_R1_S02_r		
10087		D01_R1_S02_r		
10088		D01_R1_S02_r		
30001		D01_R1_S04_r		
30002		D01_R1_S04_r		

FILTER CONTROL PLC LOGIC
SAME PROGRAM ALL THREE FILTERS

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

30003	D01_R1_S04_r					
30004	D01_R1_S04_r					
30005	D01_R1_S04_r					
30032	D01_R1_S03_r					
40001	D01_R1_S04_w					
40002	D01_R1_S04_w					
40050	#0004	#0004	#0004			
40051	#0004	#0004	#0004	#0004		
40060	#0004	#0004				
40061	#0004	#0004	#0004			
40099	#0003	#0003	#0003	#0003		
40100	#0002	#0002	#0002	#0002	#0003	#0005
	#0005					
40202	#0007					
41005	#0014					
41791	TOD CLOCK					
41792	TOD CLOCK					
41793	TOD CLOCK					
41794	TOD CLOCK					
41795	TOD CLOCK					
41796	TOD CLOCK					
41797	TOD CLOCK					
41798	TOD CLOCK					
41800	TIMER REG					

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Used OX References

00000	B B B m B B B B	00010	B B B m m m m B B B	00020	B B B m m - - - -	00030	- - - - -
00040	- - - - -	00050	- - - - -	00060	- - - - - l - - - -	00070	- - - - -
00080	- - - - -	00090	- - - - -	00100	- - - - - l - - - -	00110	- - - - -
00120	- - - - -	00130	- - - - -	00140	- - - - -	00150	- - - - -
00160	- - - - -	00170	- - - - -	00180	- - - - -	00190	- - - - -
00200	- L L L L L L - - -	00210	- - - - -	00220	L - - - - -	00230	- - - - -
00240	- - - - -	00250	- - - - -	00260	- - - - -	00270	- - - - -
00280	- - - - -	00290	- - - - -	L 00300	L L - - - -	00310	- - - - -
00320	- - - - -	00330	- - - - -	00340	- - - - -	00350	- - - - -
00360	- - - - -	00370	- - - - -	00380	- - - - -	00390	- - - - -
00400	L L L L L L L L L L	00410	l l l l l l l - -	00420	- - - - -	00430	- - - - -
00440	- - - - -	00450	- - - - -	00460	- - - - -	00470	- - - - -
00480	- - - - -	00490	- - - - -	00500	- L L L L - - - -	00510	- - - - -
00520	- - - - -	00530	- - - - -	00540	- - - - -	00550	- - - - -
00560	- - - - -	00570	- - - - -	00580	- - - - -	00590	- - - - -
00600	- - - - -	00610	- - - - -	00620	- - - - -	00630	- - - - -
00640	- - - - -	00650	- - - - -	00660	- - - - -	00670	- - - - -
00680	- - - - -	00690	- - - - -	00700	- - - - - L - - - -	00710	- - - - -
00720	- - - - -	00730	- - - - -	00740	- - - - -	00750	- - - - -
00760	- - - - -	00770	- - - - -	00780	- - - - -	00790	- - - - -
00800	- L L L L L L L L L L	00810	l l l l l l l - -	00820	- - - - -	00830	- - - - -
00840	- - - - -	00850	- - - - -	00860	- - - - -	00870	- - - - -
00880	- - - - -	00890	- - - - -	00900	- - - - -	00910	- - - - -
00920	- - - - -	00930	- - - - -	00940	- - - - -	00950	- - - - -
00960	- - - - -	00970	- - - - -	00980	- - - - -	00990	- - - - -
01000	- - - - -	01010	- - - - -	01020	- - - - -	01030	- - - - -
01040	- - - - -	01050	- - - - -	01060	- - - - -	01070	- - - - -
01080	- - - - -	01090	- - - - -	01100	- - - - -	01110	- - - - -
01120	- - - - -	01130	- - - - -	01140	- - - - -	01150	- - - - -
01160	- - - - -	01170	- - - - -	01180	- - - - -	01190	- - - - -
01200	- - - - -	01210	- - - - -	01220	- - - - -	01230	- - - - -
01240	- - - - -	01250	- - - - -	01260	- - - - -	01270	- - - - -
01280	- - - - -	01290	- - - - -	01300	- - - - -	01310	- - - - -
01320	- - - - -	01330	- - - - -	01340	- - - - -	01350	- - - - -
01360	- - - - -	01370	- - - - -	01380	- - - - -	01390	- - - - -
01400	- - - - -	01410	- - - - -	01420	- - - - -	01430	- - - - -
01440	- - - - -	01450	- - - - -	01460	- - - - -	01470	- - - - -
01480	- - - - -	01490	- - - - -	01500	- - - - -	01510	- - - - -
01520	- - - - -	01530	- - - - -	01540	- - - - -	01550	- - - - -
01560	- - - - -	01570	- - - - -	01580	- - - - -	01590	- - - - -

01600 Battery Coil

Key : UPPER CASE LETTER = DOCUMENTED; lower case letter = un-documented
 B = In both Logic and I/O - = Available
 L = In Logic only ? = Documented, but not used
 M = In I/O only

FILTER CONTROL PLC LOGIC
 SAME PROGRAM ALL THREE FILTERS

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

		Used 1X References	
10000	B M M M M B B B B	10010	B B B B B M B - - -
10040	- - - - - - - - -	10050	- - - - - - - - -
10080	- m m m m m m m m -	10090	- - - - - - - - -
10120	- - - - - - - - -	10130	- - - - - - - - -
10160	- - - - - - - - -	10170	- - - - - - - - -
10200	- - - - - - - - -	10210	- - - - - - - - -
10240	- - - - - - - - -	10250	- - - - - - - - -
			10020 - - - - - - - - -
			10060 - - - - - - - - -
			10100 - - - - - - - - -
			10140 - - - - - - - - -
			10180 - - - - - - - - -
			10220 - - - - - - - - -
			10030 - - - - - - - - -
			10070 - - - - - - - - -
			10110 - - - - - - - - -
			10150 - - - - - - - - -
			10190 - - - - - - - - -
			10230 - - - - - - - - -
			10260
			10270

Key : UPPER CASE LETTER = DOCUMENTED; lower case letter = un-documented
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 M = In I/O only

FILTER CONTROL PLC LOGIC
 SAME PROGRAM ALL THREE FILTERS

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Used 3X Registers

30000 m m m m m - - - - 30010 - - - - - 30020 - - - - - 30030 - - m

Key : UPPER CASE LETTER = DOCUMENTED; lower case letter = un-documented
B = In both Logic and I/O - = Available
L = In Logic only ? = Documented, but not used
M = In I/O only

FILTER CONTROL PLC LOGIC
SAME PROGRAM ALL THREE FILTERS

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Used 4X Registers

40000	m m	40010		40020		40030
40040		40050	l l	40060	l l	40070
40080		40090		40100	l	40110
40120		40130		40140		40150
40160		40170		40180		40190
40200	? l L - L L L	40210		40220	L	40230
40240		40250		40260		40270
40280		40290		40300	? L L - L L L	40310
40320		40330		40340		40350
40360		40370		40380		40390
40400	L L L L L	40410	L L L L L	40420		40430
40440		40450		40460		40470
40480		40490		40500	L	40510
40520		40530		40540		40550
40560		40570		40580		40590
40600		40610		40620		40630
40640		40650		40660		40670
40680		40690		40700		40710
40720		40730		40740		40750
40760		40770		40780		40790
40800		40810		40820		40830
40840		40850		40860		40870
40880		40890		40900		40910
40920		40930		40940		40950
40960		40970		40980		40990
41000		41010	l	41020		41030
41040		41050		41060		41070
41080		41090		41100		41110
41120		41130		41140		41150
41160		41170		41180		41190
41200		41210		41220		41230
41240		41250		41260		41270
41280		41290		41300		41310
41320		41330		41340		41350
41360		41370		41380		41390
41400		41410		41420		41430
41440		41450		41460		41470
41480		41490		41500		41510
41520		41530		41540		41550
41560		41570		41580		41590
41600		41610		41620		41630
41640		41650		41660		41670
41680		41690		41700		41710
41720		41730		41740		41750
41760		41770		41780		41790

41800 Timer Register

41791 - 41798 Time/Date Register

Key : UPPER CASE LETTER = DOCUMENTED; lower case letter = un-documented
 B = In both Logic and I/O - = Available
 L = In Logic only ? = Documented, but not used
 M = In I/O only

FILTER CONTROL PLC LOGIC
 SAME PROGRAM ALL THREE FILTERS

0X Reference Values

00001 = 0 E	00002 = 0 E	00003 = 0 E	00004 = 0 E	00005 = 0 E
00006 = 0 E	00007 = 0 E	00008 = 0 E	00009 = 0 E	00010 = 0 E
00011 = 0 E	00012 = 0 E	00013 = 0 E	00014 = 0 E	00015 = 0 E
00016 = 0 E	00017 = 0 E	00018 = 0 E	00019 = 0 E	00020 = 0 E
00021 = 0 E	00022 = 0 E	00023 = 0 E	00024 = 0 E	00025 = 0 E
00026 = 0 E	00027 = 0 E	00028 = 0 E	00029 = 0 E	00030 = 0 E
00031 = 0 E	00032 = 0 E	00033 = 0 E	00034 = 0 E	00035 = 0 E
00036 = 0 E	00037 = 0 E	00038 = 0 E	00039 = 0 E	00040 = 0 E
00041 = 0 E	00042 = 0 E	00043 = 0 E	00044 = 0 E	00045 = 0 E
00046 = 0 E	00047 = 0 E	00048 = 0 E	00049 = 0 E	00050 = 0 E
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00161 = 0 E	00162 = 0 E	00163 = 0 E	00164 = 0 E	00165 = 0 E
00166 = 0 E	00167 = 0 E	00168 = 0 E	00169 = 0 E	00170 = 0 E
00171 = 0 E	00172 = 0 E	00173 = 0 E	00174 = 0 E	00175 = 0 E
00176 = 0 E	00177 = 0 E	00178 = 0 E	00179 = 0 E	00180 = 0 E
00181 = 0 E	00182 = 0 E	00183 = 0 E	00184 = 0 E	00185 = 0 E
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00196 = 0 E	00197 = 0 E	00198 = 0 E	00199 = 0 E	00200 = 0 E
00201 = 0 E	00202 = 0 E	00203 = 0 E	00204 = 0 E	00205 = 0 E
00206 = 0 E	00207 = 0 E	00208 = 0 E	00209 = 0 E	00210 = 0 E
00211 = 0 E	00212 = 0 E	00213 = 0 E	00214 = 0 E	00215 = 0 E
00216 = 0 E	00217 = 0 E	00218 = 0 E	00219 = 0 E	00220 = 0 E
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00231 = 0 E	00232 = 0 E	00233 = 0 E	00234 = 0 E	00235 = 0 E
00236 = 0 E	00237 = 0 E	00238 = 0 E	00239 = 0 E	00240 = 0 E
00241 = 0 E	00242 = 0 E	00243 = 0 E	00244 = 0 E	00245 = 0 E
00246 = 0 E	00247 = 0 E	00248 = 0 E	00249 = 0 E	00250 = 0 E
00251 = 0 E	00252 = 0 E	00253 = 0 E	00254 = 0 E	00255 = 0 E
00256 = 0 E	00257 = 0 E	00258 = 0 E	00259 = 0 E	00260 = 0 E

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

00261 = 0 E	00262 = 0 E	00263 = 0 E	00264 = 0 E	00265 = 0 E
00266 = 0 E	00267 = 0 E	00268 = 0 E	00269 = 0 E	00270 = 0 E
00271 = 0 E	00272 = 0 E	00273 = 0 E	00274 = 0 E	00275 = 0 E
00276 = 0 E	00277 = 0 E	00278 = 0 E	00279 = 0 E	00280 = 0 E
00281 = 0 E	00282 = 0 E	00283 = 0 E	00284 = 0 E	00285 = 0 E
00286 = 0 E	00287 = 0 E	00288 = 0 E	00289 = 0 E	00290 = 0 E
00291 = 0 E	00292 = 0 E	00293 = 0 E	00294 = 0 E	00295 = 0 E
00296 = 0 E	00297 = 0 E	00298 = 0 E	00299 = 0 E	00300 = 0 E
00301 = 0 E	00302 = 0 E	00303 = 0 E	00304 = 0 E	00305 = 0 E
00306 = 0 E	00307 = 0 E	00308 = 0 E	00309 = 0 E	00310 = 0 E
00311 = 0 E	00312 = 0 E	00313 = 0 E	00314 = 0 E	00315 = 0 E
00316 = 0 E	00317 = 0 E	00318 = 0 E	00319 = 0 E	00320 = 0 E
00321 = 0 E	00322 = 0 E	00323 = 0 E	00324 = 0 E	00325 = 0 E
00326 = 0 E	00327 = 0 E	00328 = 0 E	00329 = 0 E	00330 = 0 E
00331 = 0 E	00332 = 0 E	00333 = 0 E	00334 = 0 E	00335 = 0 E
00336 = 0 E	00337 = 0 E	00338 = 0 E	00339 = 0 E	00340 = 0 E
00341 = 0 E	00342 = 0 E	00343 = 0 E	00344 = 0 E	00345 = 0 E
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00351 = 0 E	00352 = 0 E	00353 = 0 E	00354 = 0 E	00355 = 0 E
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00436 = 0 E	00437 = 0 E	00438 = 0 E	00439 = 0 E	00440 = 0 E
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00446 = 0 E	00447 = 0 E	00448 = 0 E	00449 = 0 E	00450 = 0 E
00451 = 0 E	00452 = 0 E	00453 = 0 E	00454 = 0 E	00455 = 0 E
00456 = 0 E	00457 = 0 E	00458 = 0 E	00459 = 0 E	00460 = 0 E
00461 = 0 E	00462 = 0 E	00463 = 0 E	00464 = 0 E	00465 = 0 E
00466 = 0 E	00467 = 0 E	00468 = 0 E	00469 = 0 E	00470 = 0 E
00471 = 0 E	00472 = 0 E	00473 = 0 E	00474 = 0 E	00475 = 0 E
00476 = 0 E	00477 = 0 E	00478 = 0 E	00479 = 0 E	00480 = 0 E
00481 = 0 E	00482 = 0 E	00483 = 0 E	00484 = 0 E	00485 = 0 E
00486 = 0 E	00487 = 0 E	00488 = 0 E	00489 = 0 E	00490 = 0 E
00491 = 0 E	00492 = 0 E	00493 = 0 E	00494 = 0 E	00495 = 0 E
00496 = 0 E	00497 = 0 E	00498 = 0 E	00499 = 0 E	00500 = 0 E
00501 = 0 E	00502 = 0 E	00503 = 0 E	00504 = 0 E	00505 = 0 E
00506 = 0 E	00507 = 0 E	00508 = 0 E	00509 = 0 E	00510 = 0 E
00511 = 0 E	00512 = 0 E	00513 = 0 E	00514 = 0 E	00515 = 0 E
00516 = 0 E	00517 = 0 E	00518 = 0 E	00519 = 0 E	00520 = 0 E
00521 = 0 E	00522 = 0 E	00523 = 0 E	00524 = 0 E	00525 = 0 E
00526 = 0 E	00527 = 0 E	00528 = 0 E	00529 = 0 E	00530 = 0 E
00531 = 0 E	00532 = 0 E	00533 = 0 E	00534 = 0 E	00535 = 0 E

FILTER CONTROL PLC LOGIC
 SAME PROGRAM ALL THREE FILTERS

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

00811 = 0 E	00812 = 0 E	00813 = 0 E	00814 = 0 E	00815 = 0 E
00816 = 0 E	00817 = 0 E	00818 = 0 E	00819 = 0 E	00820 = 0 E
00821 = 0 E	00822 = 0 E	00823 = 0 E	00824 = 0 E	00825 = 0 E
00826 = 0 E	00827 = 0 E	00828 = 0 E	00829 = 0 E	00830 = 0 E
00831 = 0 E	00832 = 0 E	00833 = 0 E	00834 = 0 E	00835 = 0 E
00836 = 0 E	00837 = 0 E	00838 = 0 E	00839 = 0 E	00840 = 0 E
00841 = 0 E	00842 = 0 E	00843 = 0 E	00844 = 0 E	00845 = 0 E
00846 = 0 E	00847 = 0 E	00848 = 0 E	00849 = 0 E	00850 = 0 E
00851 = 0 E	00852 = 0 E	00853 = 0 E	00854 = 0 E	00855 = 0 E
00856 = 0 E	00857 = 0 E	00858 = 0 E	00859 = 0 E	00860 = 0 E
00861 = 0 E	00862 = 0 E	00863 = 0 E	00864 = 0 E	00865 = 0 E
00866 = 0 E	00867 = 0 E	00868 = 0 E	00869 = 0 E	00870 = 0 E
00871 = 0 E	00872 = 0 E	00873 = 0 E	00874 = 0 E	00875 = 0 E
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00896 = 0 E	00897 = 0 E	00898 = 0 E	00899 = 0 E	00900 = 0 E
00901 = 0 E	00902 = 0 E	00903 = 0 E	00904 = 0 E	00905 = 0 E
00906 = 0 E	00907 = 0 E	00908 = 0 E	00909 = 0 E	00910 = 0 E
00911 = 0 E	00912 = 0 E	00913 = 0 E	00914 = 0 E	00915 = 0 E
00916 = 0 E	00917 = 0 E	00918 = 0 E	00919 = 0 E	00920 = 0 E
00921 = 0 E	00922 = 0 E	00923 = 0 E	00924 = 0 E	00925 = 0 E
00926 = 0 E	00927 = 0 E	00928 = 0 E	00929 = 0 E	00930 = 0 E
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00936 = 0 E	00937 = 0 E	00938 = 0 E	00939 = 0 E	00940 = 0 E
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00946 = 0 E	00947 = 0 E	00948 = 0 E	00949 = 0 E	00950 = 0 E
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00956 = 0 E	00957 = 0 E	00958 = 0 E	00959 = 0 E	00960 = 0 E
00961 = 0 E	00962 = 0 E	00963 = 0 E	00964 = 0 E	00965 = 0 E
00966 = 0 E	00967 = 0 E	00968 = 0 E	00969 = 0 E	00970 = 0 E
00971 = 0 E	00972 = 0 E	00973 = 0 E	00974 = 0 E	00975 = 0 E
00976 = 0 E	00977 = 0 E	00978 = 0 E	00979 = 0 E	00980 = 0 E
00981 = 0 E	00982 = 0 E	00983 = 0 E	00984 = 0 E	00985 = 0 E
00986 = 0 E	00987 = 0 E	00988 = 0 E	00989 = 0 E	00990 = 0 E
00991 = 0 E	00992 = 0 E	00993 = 0 E	00994 = 0 E	00995 = 0 E
00996 = 0 E	00997 = 0 E	00998 = 0 E	00999 = 0 E	01000 = 0 E
01001 = 0 E	01002 = 0 E	01003 = 0 E	01004 = 0 E	01005 = 0 E
01006 = 0 E	01007 = 0 E	01008 = 0 E	01009 = 0 E	01010 = 0 E
01011 = 0 E	01012 = 0 E	01013 = 0 E	01014 = 0 E	01015 = 0 E
01016 = 0 E	01017 = 0 E	01018 = 0 E	01019 = 0 E	01020 = 0 E
01021 = 0 E	01022 = 0 E	01023 = 0 E	01024 = 0 E	01025 = 0 E
01026 = 0 E	01027 = 0 E	01028 = 0 E	01029 = 0 E	01030 = 0 E
01031 = 0 E	01032 = 0 E	01033 = 0 E	01034 = 0 E	01035 = 0 E
01036 = 0 E	01037 = 0 E	01038 = 0 E	01039 = 0 E	01040 = 0 E
01041 = 0 E	01042 = 0 E	01043 = 0 E	01044 = 0 E	01045 = 0 E
01046 = 0 E	01047 = 0 E	01048 = 0 E	01049 = 0 E	01050 = 0 E
01051 = 0 E	01052 = 0 E	01053 = 0 E	01054 = 0 E	01055 = 0 E
01056 = 0 E	01057 = 0 E	01058 = 0 E	01059 = 0 E	01060 = 0 E
01061 = 0 E	01062 = 0 E	01063 = 0 E	01064 = 0 E	01065 = 0 E
01066 = 0 E	01067 = 0 E	01068 = 0 E	01069 = 0 E	01070 = 0 E
01071 = 0 E	01072 = 0 E	01073 = 0 E	01074 = 0 E	01075 = 0 E
01076 = 0 E	01077 = 0 E	01078 = 0 E	01079 = 0 E	01080 = 0 E
01081 = 0 E	01082 = 0 E	01083 = 0 E	01084 = 0 E	01085 = 0 E

FILTER CONTROL PLC LOGIC
 SAME PROGRAM ALL THREE FILTERS

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

01086 = 0 E	01087 = 0 E	01088 = 0 E	01089 = 0 E	01090 = 0 E
01091 = 0 E	01092 = 0 E	01093 = 0 E	01094 = 0 E	01095 = 0 E
01096 = 0 E	01097 = 0 E	01098 = 0 E	01099 = 0 E	01100 = 0 E
01101 = 0 E	01102 = 0 E	01103 = 0 E	01104 = 0 E	01105 = 0 E
01106 = 0 E	01107 = 0 E	01108 = 0 E	01109 = 0 E	01110 = 0 E
01111 = 0 E	01112 = 0 E	01113 = 0 E	01114 = 0 E	01115 = 0 E
01116 = 0 E	01117 = 0 E	01118 = 0 E	01119 = 0 E	01120 = 0 E
01121 = 0 E	01122 = 0 E	01123 = 0 E	01124 = 0 E	01125 = 0 E
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01141 = 0 E	01142 = 0 E	01143 = 0 E	01144 = 0 E	01145 = 0 E
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01161 = 0 E	01162 = 0 E	01163 = 0 E	01164 = 0 E	01165 = 0 E
01166 = 0 E	01167 = 0 E	01168 = 0 E	01169 = 0 E	01170 = 0 E
01171 = 0 E	01172 = 0 E	01173 = 0 E	01174 = 0 E	01175 = 0 E
01176 = 0 E	01177 = 0 E	01178 = 0 E	01179 = 0 E	01180 = 0 E
01181 = 0 E	01182 = 0 E	01183 = 0 E	01184 = 0 E	01185 = 0 E
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01196 = 0 E	01197 = 0 E	01198 = 0 E	01199 = 0 E	01200 = 0 E
01201 = 0 E	01202 = 0 E	01203 = 0 E	01204 = 0 E	01205 = 0 E
01206 = 0 E	01207 = 0 E	01208 = 0 E	01209 = 0 E	01210 = 0 E
01211 = 0 E	01212 = 0 E	01213 = 0 E	01214 = 0 E	01215 = 0 E
01216 = 0 E	01217 = 0 E	01218 = 0 E	01219 = 0 E	01220 = 0 E
01221 = 0 E	01222 = 0 E	01223 = 0 E	01224 = 0 E	01225 = 0 E
01226 = 0 E	01227 = 0 E	01228 = 0 E	01229 = 0 E	01230 = 0 E
01231 = 0 E	01232 = 0 E	01233 = 0 E	01234 = 0 E	01235 = 0 E
01236 = 0 E	01237 = 0 E	01238 = 0 E	01239 = 0 E	01240 = 0 E
01241 = 0 E	01242 = 0 E	01243 = 0 E	01244 = 0 E	01245 = 0 E
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01251 = 0 E	01252 = 0 E	01253 = 0 E	01254 = 0 E	01255 = 0 E
01256 = 0 E	01257 = 0 E	01258 = 0 E	01259 = 0 E	01260 = 0 E
01261 = 0 E	01262 = 0 E	01263 = 0 E	01264 = 0 E	01265 = 0 E
01266 = 0 E	01267 = 0 E	01268 = 0 E	01269 = 0 E	01270 = 0 E
01271 = 0 E	01272 = 0 E	01273 = 0 E	01274 = 0 E	01275 = 0 E
01276 = 0 E	01277 = 0 E	01278 = 0 E	01279 = 0 E	01280 = 0 E
01281 = 0 E	01282 = 0 E	01283 = 0 E	01284 = 0 E	01285 = 0 E
01286 = 0 E	01287 = 0 E	01288 = 0 E	01289 = 0 E	01290 = 0 E
01291 = 0 E	01292 = 0 E	01293 = 0 E	01294 = 0 E	01295 = 0 E
01296 = 0 E	01297 = 0 E	01298 = 0 E	01299 = 0 E	01300 = 0 E
01301 = 0 E	01302 = 0 E	01303 = 0 E	01304 = 0 E	01305 = 0 E
01306 = 0 E	01307 = 0 E	01308 = 0 E	01309 = 0 E	01310 = 0 E
01311 = 0 E	01312 = 0 E	01313 = 0 E	01314 = 0 E	01315 = 0 E
01316 = 0 E	01317 = 0 E	01318 = 0 E	01319 = 0 E	01320 = 0 E
01321 = 0 E	01322 = 0 E	01323 = 0 E	01324 = 0 E	01325 = 0 E
01326 = 0 E	01327 = 0 E	01328 = 0 E	01329 = 0 E	01330 = 0 E
01331 = 0 E	01332 = 0 E	01333 = 0 E	01334 = 0 E	01335 = 0 E
01336 = 0 E	01337 = 0 E	01338 = 0 E	01339 = 0 E	01340 = 0 E
01341 = 0 E	01342 = 0 E	01343 = 0 E	01344 = 0 E	01345 = 0 E
01346 = 0 E	01347 = 0 E	01348 = 0 E	01349 = 0 E	01350 = 0 E
01351 = 0 E	01352 = 0 E	01353 = 0 E	01354 = 0 E	01355 = 0 E
01356 = 0 E	01357 = 0 E	01358 = 0 E	01359 = 0 E	01360 = 0 E

FILTER CONTROL PLC LOGIC
 SAME PROGRAM ALL THREE FILTERS

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

01361 = 0 E	01362 = 0 E	01363 = 0 E	01364 = 0 E	01365 = 0 E
01366 = 0 E	01367 = 0 E	01368 = 0 E	01369 = 0 E	01370 = 0 E
01371 = 0 E	01372 = 0 E	01373 = 0 E	01374 = 0 E	01375 = 0 E
01376 = 0 E	01377 = 0 E	01378 = 0 E	01379 = 0 E	01380 = 0 E
01381 = 0 E	01382 = 0 E	01383 = 0 E	01384 = 0 E	01385 = 0 E
01386 = 0 E	01387 = 0 E	01388 = 0 E	01389 = 0 E	01390 = 0 E
01391 = 0 E	01392 = 0 E	01393 = 0 E	01394 = 0 E	01395 = 0 E
01396 = 0 E	01397 = 0 E	01398 = 0 E	01399 = 0 E	01400 = 0 E
01401 = 0 E	01402 = 0 E	01403 = 0 E	01404 = 0 E	01405 = 0 E
01406 = 0 E	01407 = 0 E	01408 = 0 E	01409 = 0 E	01410 = 0 E
01411 = 0 E	01412 = 0 E	01413 = 0 E	01414 = 0 E	01415 = 0 E
01416 = 0 E	01417 = 0 E	01418 = 0 E	01419 = 0 E	01420 = 0 E
01421 = 0 E	01422 = 0 E	01423 = 0 E	01424 = 0 E	01425 = 0 E
01426 = 0 E	01427 = 0 E	01428 = 0 E	01429 = 0 E	01430 = 0 E
01431 = 0 E	01432 = 0 E	01433 = 0 E	01434 = 0 E	01435 = 0 E
01436 = 0 E	01437 = 0 E	01438 = 0 E	01439 = 0 E	01440 = 0 E
01441 = 0 E	01442 = 0 E	01443 = 0 E	01444 = 0 E	01445 = 0 E
01446 = 0 E	01447 = 0 E	01448 = 0 E	01449 = 0 E	01450 = 0 E
01451 = 0 E	01452 = 0 E	01453 = 0 E	01454 = 0 E	01455 = 0 E
01456 = 0 E	01457 = 0 E	01458 = 0 E	01459 = 0 E	01460 = 0 E
01461 = 0 E	01462 = 0 E	01463 = 0 E	01464 = 0 E	01465 = 0 E
01466 = 0 E	01467 = 0 E	01468 = 0 E	01469 = 0 E	01470 = 0 E
01471 = 0 E	01472 = 0 E	01473 = 0 E	01474 = 0 E	01475 = 0 E
01476 = 0 E	01477 = 0 E	01478 = 0 E	01479 = 0 E	01480 = 0 E
01481 = 0 E	01482 = 0 E	01483 = 0 E	01484 = 0 E	01485 = 0 E
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01496 = 0 E	01497 = 0 E	01498 = 0 E	01499 = 0 E	01500 = 0 E
01501 = 0 E	01502 = 0 E	01503 = 0 E	01504 = 0 E	01505 = 0 E
01506 = 0 E	01507 = 0 E	01508 = 0 E	01509 = 0 E	01510 = 0 E
01511 = 0 E	01512 = 0 E	01513 = 0 E	01514 = 0 E	01515 = 0 E
01516 = 0 E	01517 = 0 E	01518 = 0 E	01519 = 0 E	01520 = 0 E
01521 = 0 E	01522 = 0 E	01523 = 0 E	01524 = 0 E	01525 = 0 E
01526 = 0 E	01527 = 0 E	01528 = 0 E	01529 = 0 E	01530 = 0 E
01531 = 0 E	01532 = 0 E	01533 = 0 E	01534 = 0 E	01535 = 0 E
01536 = 0 E	01537 = 0 E	01538 = 0 E	01539 = 0 E	01540 = 0 E
01541 = 0 E	01542 = 0 E	01543 = 0 E	01544 = 0 E	01545 = 0 E
01546 = 0 E	01547 = 0 E	01548 = 0 E	01549 = 0 E	01550 = 0 E
01551 = 0 E	01552 = 0 E	01553 = 0 E	01554 = 0 E	01555 = 0 E
01556 = 0 E	01557 = 0 E	01558 = 0 E	01559 = 0 E	01560 = 0 E
01561 = 0 E	01562 = 0 E	01563 = 0 E	01564 = 0 E	01565 = 0 E
01566 = 0 E	01567 = 0 E	01568 = 0 E	01569 = 0 E	01570 = 0 E
01571 = 0 E	01572 = 0 E	01573 = 0 E	01574 = 0 E	01575 = 0 E
01576 = 0 E	01577 = 0 E	01578 = 0 E	01579 = 0 E	01580 = 0 E
01581 = 0 E	01582 = 0 E	01583 = 0 E	01584 = 0 E	01585 = 0 E
01586 = 0 E	01587 = 0 E	01588 = 0 E	01589 = 0 E	01590 = 0 E
01591 = 0 E	01592 = 0 E	01593 = 0 E	01594 = 0 E	01595 = 0 E
01596 = 0 E	01597 = 0 E	01598 = 0 E	01599 = 0 E	01600 = 0 E

1X Reference Values

10001 = 0 E	10002 = 0 E	10003 = 0 E	10004 = 0 E	10005 = 0 E
10006 = 0 E	10007 = 0 E	10008 = 0 E	10009 = 0 E	10010 = 0 E
10011 = 0 E	10012 = 0 E	10013 = 0 E	10014 = 1 E	10015 = 1 E
10016 = 0 E	10017 = 0 E	10018 = 0 E	10019 = 0 E	10020 = 0 E
10021 = 0 E	10022 = 0 E	10023 = 0 E	10024 = 0 E	10025 = 0 E
10026 = 0 E	10027 = 0 E	10028 = 0 E	10029 = 0 E	10030 = 0 E
10031 = 0 E	10032 = 0 E	10033 = 0 E	10034 = 0 E	10035 = 0 E
10036 = 0 E	10037 = 0 E	10038 = 0 E	10039 = 0 E	10040 = 0 E
10041 = 0 E	10042 = 0 E	10043 = 0 E	10044 = 0 E	10045 = 0 E
10046 = 0 E	10047 = 0 E	10048 = 0 E	10049 = 0 E	10050 = 0 E
10051 = 0 E	10052 = 0 E	10053 = 0 E	10054 = 0 E	10055 = 0 E
10056 = 0 E	10057 = 0 E	10058 = 0 E	10059 = 0 E	10060 = 0 E
10061 = 0 E	10062 = 0 E	10063 = 0 E	10064 = 0 E	10065 = 0 E
10066 = 0 E	10067 = 0 E	10068 = 0 E	10069 = 0 E	10070 = 0 E
10071 = 0 E	10072 = 0 E	10073 = 0 E	10074 = 0 E	10075 = 0 E
10076 = 0 E	10077 = 0 E	10078 = 0 E	10079 = 0 E	10080 = 0 E
10081 = 0 E	10082 = 0 E	10083 = 0 E	10084 = 0 E	10085 = 0 E
10086 = 0 E	10087 = 0 E	10088 = 0 E	10089 = 0 E	10090 = 0 E
10091 = 0 E	10092 = 0 E	10093 = 0 E	10094 = 0 E	10095 = 0 E
10096 = 0 E	10097 = 0 E	10098 = 0 E	10099 = 0 E	10100 = 0 E
10101 = 0 E	10102 = 0 E	10103 = 0 E	10104 = 0 E	10105 = 0 E
10106 = 0 E	10107 = 0 E	10108 = 0 E	10109 = 0 E	10110 = 0 E
10111 = 0 E	10112 = 0 E	10113 = 0 E	10114 = 0 E	10115 = 0 E
10116 = 0 E	10117 = 0 E	10118 = 0 E	10119 = 0 E	10120 = 0 E
10121 = 0 E	10122 = 0 E	10123 = 0 E	10124 = 0 E	10125 = 0 E
10126 = 0 E	10127 = 0 E	10128 = 0 E	10129 = 0 E	10130 = 0 E
10131 = 0 E	10132 = 0 E	10133 = 0 E	10134 = 0 E	10135 = 0 E
10136 = 0 E	10137 = 0 E	10138 = 0 E	10139 = 0 E	10140 = 0 E
10141 = 0 E	10142 = 0 E	10143 = 0 E	10144 = 0 E	10145 = 0 E
10146 = 0 E	10147 = 0 E	10148 = 0 E	10149 = 0 E	10150 = 0 E
10151 = 0 E	10152 = 0 E	10153 = 0 E	10154 = 0 E	10155 = 0 E
10156 = 0 E	10157 = 0 E	10158 = 0 E	10159 = 0 E	10160 = 0 E
10161 = 0 E	10162 = 0 E	10163 = 0 E	10164 = 0 E	10165 = 0 E
10166 = 0 E	10167 = 0 E	10168 = 0 E	10169 = 0 E	10170 = 0 E
10171 = 0 E	10172 = 0 E	10173 = 0 E	10174 = 0 E	10175 = 0 E
10176 = 0 E	10177 = 0 E	10178 = 0 E	10179 = 0 E	10180 = 0 E
10181 = 0 E	10182 = 0 E	10183 = 0 E	10184 = 0 E	10185 = 0 E
10186 = 0 E	10187 = 0 E	10188 = 0 E	10189 = 0 E	10190 = 0 E
10191 = 0 E	10192 = 0 E	10193 = 0 E	10194 = 0 E	10195 = 0 E
10196 = 0 E	10197 = 0 E	10198 = 0 E	10199 = 0 E	10200 = 0 E
10201 = 0 E	10202 = 0 E	10203 = 0 E	10204 = 0 E	10205 = 0 E
10206 = 0 E	10207 = 0 E	10208 = 0 E	10209 = 0 E	10210 = 0 E
10211 = 0 E	10212 = 0 E	10213 = 0 E	10214 = 0 E	10215 = 0 E
10216 = 0 E	10217 = 0 E	10218 = 0 E	10219 = 0 E	10220 = 0 E
10221 = 0 E	10222 = 0 E	10223 = 0 E	10224 = 0 E	10225 = 0 E
10226 = 0 E	10227 = 0 E	10228 = 0 E	10229 = 0 E	10230 = 0 E
10231 = 0 E	10232 = 0 E	10233 = 0 E	10234 = 0 E	10235 = 0 E
10236 = 0 E	10237 = 0 E	10238 = 0 E	10239 = 0 E	10240 = 0 E
10241 = 0 E	10242 = 0 E	10243 = 0 E	10244 = 0 E	10245 = 0 E
10246 = 0 E	10247 = 0 E	10248 = 0 E	10249 = 0 E	10250 = 0 E
10251 = 0 E	10252 = 0 E	10253 = 0 E	10254 = 0 E	10255 = 0 E
10256 = 0 E				

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

3X Register Values

DEC	HEX	ASC	- - ->			
30001 = 03938	0F62	.b	30002 = 04095 0FFF ..	30003 = 00000 0000 ..	30004 = 00186 00BA ..	30005 = 01542 0606 ..
30006 = 00000	0000	..	30007 = 00000 0000 ..	30008 = 00000 0000 ..	30009 = 00000 0000 ..	30010 = 00000 0000 ..
30011 = 00000	0000	..	30012 = 00000 0000 ..	30013 = 00000 0000 ..	30014 = 00000 0000 ..	30015 = 00000 0000 ..
30016 = 00000	0000	..	30017 = 00000 0000 ..	30018 = 00000 0000 ..	30019 = 00000 0000 ..	30020 = 00000 0000 ..
30021 = 00000	0000	..	30022 = 00000 0000 ..	30023 = 00000 0000 ..	30024 = 00000 0000 ..	30025 = 00000 0000 ..
30026 = 00000	0000	..	30027 = 00000 0000 ..	30028 = 00000 0000 ..	30029 = 00000 0000 ..	30030 = 00000 0000 ..
30031 = 00000	0000	..	30032 = 00000 0000 ..			

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Parameters for Documentation

PRINTER ->	Destination	Generic Wide page->LEJUNEF.OUT
SECTIONS	Configuration	Y
	Segments	001
	SFC Steps	
	Networks	ALL
	List Network Titles	Y
	Macros	
	ASCII Messages	NONE
REFDESC	Reference Values	ALL
	Reference Usage Tables	Y
	Global Cross Reference	BOTH
	Local Cross Reference	Y
	Network Comments	Y
MISC	Documentation Parameters	Y
	Program Information	Y
	Table Of Contents	Y
	Single Network Per Page	Y
	Print Descriptors Above Node	Y
	Print Coils At Right Margin	Y
HEADER	Filename	
	Page Header:	
	CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM	

Page Footer:
FILTER CONTROL PLC LOGIC
SAME PROGRAM ALL THREE FILTERS

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

ENVIRONMENT INFORMATION

LOAD CHG

Program Name: \MODSOFT\PROGRAMS\LEJUNEF1.ENV
 Ladder File: C:\MODSOFT\PROGRAMS\LEJUNEF1.PRG
 Ladder Comments: C:\MODSOFT\PROGRAMS\LEJUNEF1.PCM
 Symbols and Descriptors: C:\MODSOFT\PROGRAMS\LEJUNEF1.RFS
 Configuration: C:\MODSOFT\PROGRAMS\LEJUNEF1.CFG
 Reference Values: C:\MODSOFT\PROGRAMS\LEJUNEF1.RFD
 ASCII Messages: C:\MODSOFT\PROGRAMS\LEJUNEF1.ASC
 Loadable and Macro Path: C:\MODSOFT\PROGRAMS\

Current Segment:	1		0	1	2	3	4	5	6	7	8	9
Current Network:	24	Segment 0x	*	X	-	-	-	-	-	-	-	-
		1x	-	-	-	-	-	-	-	-	-	-
		2x	-	-	-	-	-	-	-	-	-	-
Revision Number:	14	3x	-	-	-	-	-	-	-	-	-	-
		X:	Occupied	-:	Empty							

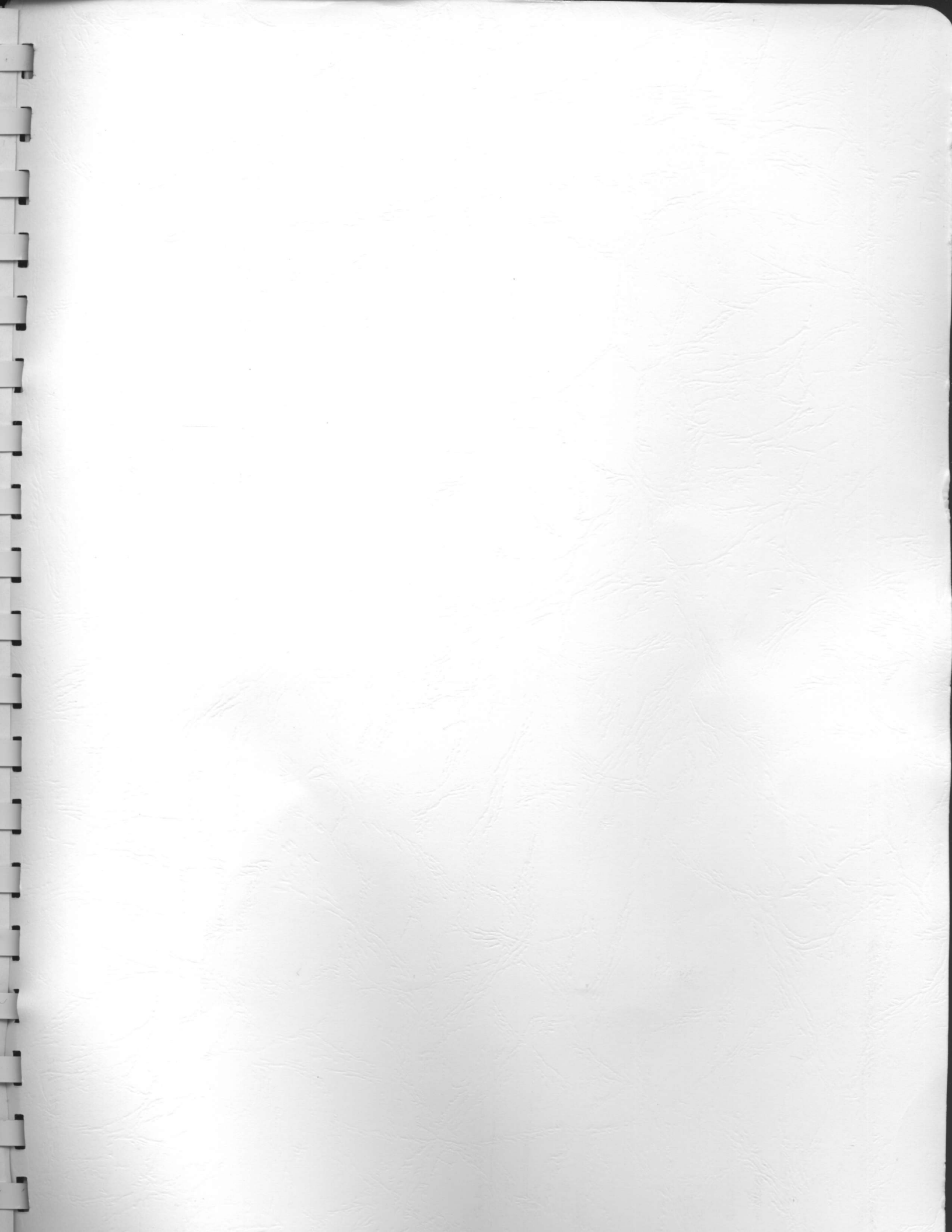
PLC Type: MICRO	Ranges: 01600	Name:
Offline	10256	Roy Ratajeski
	30032	Company:
Modsoft 984	41800	Curry Controls Co
Modsoft Ver: 2.21		

Address	Protocol	Mode	Data Bits	Parity	Stop Bits	Baud	Device
1	MODBUS I	RTU	8	EVEN	1	9600	COM1

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

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CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Configuration

CONFIGURATION OVERVIEW

PLC :		Size of Full Logic Area	02110
PLC Type		No. of I/O Map Words	00161
Model	MICRO-S	I/O :	
System Memory	612/00	Number of Segments	2
Micro Child ID	3.1K	Number of Children	0
	None	I/O Locations	19
-----+			
		Specials :	
Ranges :		Battery Coil	01600
0xxxx 00001 - 01600		Timer Register	41800
1xxxx 10001 - 10256		Time of Day Clock	41791 - 41798
3xxxx 30001 - 30032		Config Extension Size	0
4xxxx 40001 - 41800			
4xxxx <-> SFC	None		
-----+			
0xxxx <-> SFC	None		

CONFIGURATION EXTENSION BLOCKS

No Configuration Extensions found

MICRO PORTS

MODE	RS232-1	RS232-2	RS485				
Single	MODBUS	MODBUS	ASCII				
MODBUS Parameters							
Port	Mode	Data Bits	Parity	Stop Bits	Baud	Address	Delay
RS232-1	RTU	8	EVEN	1	9600	1	10 ms
RS232-2	RTU	8	EVEN	1	9600	1	10 ms
ASCII Parameters							
		8	EVEN	1	9600		

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Configuration

SEGMENT SCHEDULER & CONSTANT SWEEP
Number of Drops : 1 Number of Segments: 2

CONSTANT SWEEP :OFF MIN SCAN TIME: ms Refs: -
Watchdog Timeout:250 ms IO Timeslice: ms

Schedule Ref. Program Drop Drop
Number Type Number Sense Segment Input Output
1 CONTINUOUS 01 01 01
2 EOL

MICRO I/O MAP

Single I/O

PLC : MICRO 612/00 Holdup Time : N/A
 Used Inputs : 120 of 512 Points Used Outputs : 048 of 512 Points
 Next Input : ***** Next Output : *****

Location	Type	Reference Numbers Inputs	Numbers Outputs	Data Type	Description
DISC I/O:	MIC128	10001 -10016	00001 -00016	BIN	16@24V I/O 12 RY
INT/CTR IN:	MIC140	10081 -10088	-	BIN	8 INTPT/CNTR INP
TMR/CTR IN:	MIC147	30032 -30032	-	BIN	16BIT TMR/CNTR VAL
ANALOG I/O:	MIC142	30001 -30005	40001 -40002	BIN	1-5V 12BIT 4I/O2
DATA TRANS:	NotAvl	-	-	-	-

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Segment: 01

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Network List Segment: 01

```
+-----+ +-----+
|P000|--|#00001|
+-----+ +-----+
         |#00002|
          +-----+
```


CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Segment: 01 Network: #00001

1+	BW FILTER#1 REQUEST INPUT TO BW PLC	BW FILTER#2 REQUEST INPUT TO BW PLC	BW FILTER#3 REQUEST INPUT TO BW PLC		BW F#1 REQUEST ACCEPTED BY BW PLC
	10001	10002	10003		--() 00001
2+	BW FILTER#2 REQUEST INPUT TO BW PLC	BW FILTER#1 REQUEST INPUT TO BW PLC	BW FILTER#3 REQUEST INPUT TO BW PLC		BW F#2 REQUEST ACCEPTED BY BW PLC
	10002	10001	10003		--() 00002
3+	BW FILTER#3 REQUEST INPUT TO BW PLC	BW FILTER#1 REQUEST INPUT TO BW PLC	BW FILTER#2 REQUEST INPUT TO BW PLC		BW F#3 REQUEST ACCEPTED BY BW PLC
	10003	10001	10002		--() 00003
4+	BW F#1 REQUEST ACCEPTED BY BW PLC	BW F#2 REQUEST ACCEPTED BY BW PLC	BW F#3 REQUEST ACCEPTED BY BW PLC	ANALOG OUTPUT TO BW ROF CONTROL VALVE	
	00001 {1.1}	00002 {1.2}	00003 {1.3}	40001	
5+				ANALOG OUTPUT TO BW ROF CONTROL VALVE	
				40001	
6+				ANALOG OUTPUT TO BW ROF CONTROL VALVE	
				SUB 40001	

00001 BW F#1 REQUEST NC:#0001 CO:#0001 NO:#0002 D01_R1_S01_w
ACCEPTED BY BW PLC

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

00002	BW F#2 REQUEST ACCEPTED BY BW PLC	NC:#0001	CO:#0001	NO:#0002	D01_R1_S01_w
00003	BW F#3 REQUEST ACCEPTED BY BW PLC	NC:#0001	CO:#0001	NO:#0002	D01_R1_S01_w

BW F#1 REQUEST ACCEPTED BY BW PLC		FILTER #1 BW ROF OUTPUT TO BW CV	
1+ + +-----+		00001	30001
		(1.1}	
2+			#0000
			ANALOG OUTPUT TO BW ROF CONTROL VALVE
3+			ADD 40001
			+-----+
BW F#3 REQUEST ACCEPTED BY BW PLC		FILTER #3 BW ROF OUTPUT TO BW CV	
4+ + +-----+		00003	30003
		(1.3}	
BW F#2 REQUEST ACCEPTED BY BW PLC		FILTER #2 BW ROF OUTPUT TO BW CV	
5+ + +-----+		00002	30002
		(1.2}	#0000
			ANALOG OUTPUT TO BW ROF CONTROL VALVE
6+			ADD 40001
			+-----+
>>>> CONT. NEXT PAGE			

<<<< FROM PREV PAGE

7+	ANALOG
	OUTPUT
	TO BW ROF
	CONTROL
	VALVE
	ADD
	40001

Global Numeric Cross Reference List OX

REF:	SYMBOL:/DESCRIPTION:	LOCATION:			
00001	BW F#1 REQUEST ACCEPTED BY BW PLC	NC:#0001	CO:#0001	NO:#0002	D01_R1_S01_w
00002	BW F#2 REQUEST ACCEPTED BY BW PLC	NC:#0001	CO:#0001	NO:#0002	D01_R1_S01_w
00003	BW F#3 REQUEST ACCEPTED BY BW PLC	NC:#0001	CO:#0001	NO:#0002	D01_R1_S01_w
00004		D01_R1_S01_w			
00005	CLOSE INFLUENT VALVE	D01_R1_S01_w			
00006	CLOSE EFFLUENT VALVE	D01_R1_S01_w			
00007	OPEN WASTE VALVE	D01_R1_S01_w			
00008	OPEN BW INFLUENT VALVE	D01_R1_S01_w			
00009	OPEN SURFACE WASH VALVE	D01_R1_S01_w			
00010	OPEN REWASH VALVE	D01_R1_S01_w			
00011	RUN BW PUMP	D01_R1_S01_w			
00012	RUN SURFACE WASH PUMP	D01_R1_S01_w			
00013		D01_R1_S01_w			
00014		D01_R1_S01_w			
00015		D01_R1_S01_w			
00016		D01_R1_S01_w			
01600		Battery Coil			

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Global Numeric Cross Reference List 1X

REF:	SYMBOL:/DESCRIPTION:	LOCATION:			
10001	BW FILTER#1 REQUEST INPUT TO BW PLC	NO:#0001	NC:#0001	NC:#0001	D01_R1_S01_r
10002	BW FILTER#2 REQUEST INPUT TO BW PLC	NO:#0001	NC:#0001	NC:#0001	D01_R1_S01_r
10003	BW FILTER#3 REQUEST INPUT TO BW PLC	NO:#0001	NC:#0001	NC:#0001	D01_R1_S01_r
10004	EFFLUENT VALVE OPEN	D01_R1_S01_r			
10005	EFFLUENT VALVE CLOSED	D01_R1_S01_r			
10006	WASTE VALVE OPEN	D01_R1_S01_r			
10007	WASTE VALVE CLOSED	D01_R1_S01_r			
10008	BW INFLUENT VALVE OPEN	D01_R1_S01_r			
10009	BW INFLUENT VALVE CLOSED	D01_R1_S01_r			
10010	SURFACE WASH VALVE OPEN	D01_R1_S01_r			
10011	SURFACE WASH VALVE CLOSED	D01_R1_S01_r			
10012	REWASH VALVE OPEN	D01_R1_S01_r			
10013	REWASH VALVE CLOSED	D01_R1_S01_r			
10014	SURFACE WASH PUMP(S) AUTO O.K.	D01_R1_S01_r			
10015	BACKWASH PUMP(S) AUTO O.K.	D01_R1_S01_r			
10016	BACKWASH #1 OK TO START INTERLOCK	D01_R1_S01_r			
10081		D01_R1_S02_r			
10082		D01_R1_S02_r			
10083		D01_R1_S02_r			
10084		D01_R1_S02_r			
10085		D01_R1_S02_r			
10086		D01_R1_S02_r			
10087		D01_R1_S02_r			
10088		D01_R1_S02_r			

010084 010085 010086 010087 010088

Global Numeric Cross Reference List 3X

REF:	SYMBOL:/DESCRIPTION:	LOCATION:	
30001	FILTER #1 BW ROF OUTPUT TO BW CV	#0002	D01_R1_S04_r
30002	FILTER #2 BW ROF OUTPUT TO BW CV	#0002	D01_R1_S04_r
30003	FILTER #3 BW ROF OUTPUT TO BW CV	#0002	D01_R1_S04_r
30004		D01_R1_S04_r	
30005		D01_R1_S04_r	
30032		D01_R1_S03_r	

Global Numeric Cross Reference List 4X

REF:	SYMBOL:/DESCRIPTION:	LOCATION:					
40001	ANALOG OUTPUT TO BW ROF CONTROL VALVE	#0001 D01_R1_S04_w	#0001	#0001	#0002	#0002	#0002
40002		D01_R1_S04_w					
41791		TOD CLOCK					
41792		TOD CLOCK					
41793		TOD CLOCK					
41794		TOD CLOCK					
41795		TOD CLOCK					
41796		TOD CLOCK					
41797		TOD CLOCK					
41798		TOD CLOCK					
41800		TIMER REG					

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Global Alphabetic Cross Reference List

REF:	SYMBOL:/DESCRIPTION:	LOCATION:	CO:#0001	NO:#0002	D01_R1_S01_w			
00001	BW F#1 REQUEST ACCEPTED BY BW PLC	NC:#0001						
00002	BW F#2 REQUEST ACCEPTED BY BW PLC	NC:#0001						
00003	BW F#3 REQUEST ACCEPTED BY BW PLC	NC:#0001						
10015	BACKWASH PUMP(S) AUTO O.K.	D01_R1_S01_r						
00005	CLOSE INFLUENT VALVE	D01_R1_S01_w						
00006	CLOSE EFFLUENT VALVE	D01_R1_S01_w						
00007	OPEN WASTE VALVE	D01_R1_S01_w						
00008	OPEN BW INFLUENT VALVE	D01_R1_S01_w						
00009	OPEN SURFACE WASH VALVE	D01_R1_S01_w						
00010	OPEN REWASH VALVE	D01_R1_S01_w						
00011	RUN BW PUMP	D01_R1_S01_w						
00012	RUN SURFACE WASH PUMP	D01_R1_S01_w						
40001	ANALOG OUTPUT TO BW ROF CONTROL VALVE	#0001 D01_R1_S04_w	#0001	#0001	#0002	#0002	#0002	
30003	FILTER #3 BW ROF OUTPUT TO BW CV	#0002			D01_R1_S04_r			
30002	FILTER #2 BW ROF OUTPUT TO BW CV	#0002			D01_R1_S04_r			
30001	FILTER #1 BW ROF OUTPUT TO BW CV	#0002			D01_R1_S04_r			
10016	BACKWASH #1 OK TO START INTERLOCK	D01_R1_S01_r						
10001	BW FILTER#1 REQUEST INPUT TO BW PLC	NO:#0001	NC:#0001	NC:#0001				D01_R1_S01_r

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

10002	BW FILTER#2 REQUEST NO:#0001 INPUT TO BW PLC	NC:#0001	NC:#0001	D01_R1_S01_r
10003	BW FILTER#3 REQUEST NO:#0001 INPUT TO BW PLC	NC:#0001	NC:#0001	D01_R1_S01_r
10004	EFFLUENT VALVE OPEN			D01_R1_S01_r
10005	EFFLUENT VALVE CLOSED			D01_R1_S01_r
10006	WASTE VALVE OPEN			D01_R1_S01_r
10007	WASTE VALVE CLOSED			D01_R1_S01_r
10008	BW INFLUENT VALVE OPEN			D01_R1_S01_r
10009	BW INFLUENT VALVE CLOSED			D01_R1_S01_r
10010	SURFACE WASH VALVE OPEN			D01_R1_S01_r
10011	SURFACE WASH VALVE CLOSED			D01_R1_S01_r
10012	REWASH VALVE OPEN			D01_R1_S01_r
10013	REWASH VALVE CLOSED			D01_R1_S01_r
10014	SURFACE WASH PUMP(S) AUTO O.K.			D01_R1_S01_r
00004				D01_R1_S01_w
00013				D01_R1_S01_w
00014				D01_R1_S01_w
00015				D01_R1_S01_w
00016				D01_R1_S01_w
01600	Battery Coil			
10081				D01_R1_S02_r
10082				D01_R1_S02_r
10083				D01_R1_S02_r
10084				D01_R1_S02_r
10085				D01_R1_S02_r
10086				D01_R1_S02_r
10087				D01_R1_S02_r
10088				D01_R1_S02_r
30004				D01_R1_S04_r
30005				D01_R1_S04_r
30032				D01_R1_S03_r
40002				D01_R1_S04_w
41791	TOD CLOCK			
41792	TOD CLOCK			
41793	TOD CLOCK			
41794	TOD CLOCK			

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

41795	TOD CLOCK
41796	TOD CLOCK
41797	TOD CLOCK
41798	TOD CLOCK
41800	TIMER REG

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Used OX References

00000	B B B m M M M M	00010	M M M m m m m	00020		00030
00040		00050		00060		00070
00080		00090		00100		00110
00120		00130		00140		00150
00160		00170		00180		00190
00200		00210		00220		00230
00240		00250		00260		00270
00280		00290		00300	? ?	00310
00320		00330		00340		00350
00360		00370		00380		00390
00400	? ? ? ? ? ? ? ?	00410		00420		00430
00440		00450		00460		00470
00480		00490		00500		00510
00520		00530		00540		00550
00560		00570		00580		00590
00600		00610		00620		00630
00640		00650		00660		00670
00680		00690		00700	?	00710
00720		00730		00740		00750
00760		00770		00780		00790
00800	- ? ? ? ? ? ? ?	00810		00820		00830
00840		00850		00860		00870
00880		00890		00900		00910
00920		00930		00940		00950
00960		00970		00980		00990
01000		01010		01020		01030
01040		01050		01060		01070
01080		01090		01100		01110
01120		01130		01140		01150
01160		01170		01180		01190
01200		01210		01220		01230
01240		01250		01260		01270
01280		01290		01300		01310
01320		01330		01340		01350
01360		01370		01380		01390
01400		01410		01420		01430
01440		01450		01460		01470
01480		01490		01500		01510
01520		01530		01540		01550
01560		01570		01580		01590

01600 Battery Coil

Key : UPPER CASE LETTER = DOCUMENTED; lower case letter = un-documented
 B = In both Logic and I/O - = Available
 L = In Logic only ? = Documented, but not used
 M = In I/O only

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Used 1X References

10000	B B B M M M M M	10010	M M M M M M	- - -	10020	- - -	10030	- - -
10040	- - - - -	10050	- - - - -	- - -	10060	- - -	10070	- - -
10080	- m m m m m m m	10090	- - - - -	- - -	10100	- - -	10110	- - -
10120	- - - - -	10130	- - - - -	- - -	10140	- - -	10150	- - -
10160	- - - - -	10170	- - - - -	- - -	10180	- - -	10190	- - -
10200	- - - - -	10210	- - - - -	- - -	10220	- - -	10230	- - -
10240	- - - - -	10250	- - - - -	- - -	10260	- - -	10270	- - -

Key : UPPER CASE LETTER = DOCUMENTED; lower case letter = un-documented
 B = In both Logic and I/O - = Available
 L = In Logic only ? = Documented, but not used
 M = In I/O only

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

Used 4X Registers

40000	B m	40010	40020	40030
40040		40050	40060	40070
40080		40090	40100	40110
40120		40130	40140	40150
40160		40170	40180	40190
40200		40210	40220	40230
40240		40250	40260	40270
40280		40290	40300	40310
40320		40330	40340	40350
40360		40370	40380	40390
40400		40410	40420	40430
40440		40450	40460	40470
40480		40490	40500	40510
40520		40530	40540	40550
40560		40570	40580	40590
40600		40610	40620	40630
40640		40650	40660	40670
40680		40690	40700	40710
40720		40730	40740	40750
40760		40770	40780	40790
40800		40810	40820	40830
40840		40850	40860	40870
40880		40890	40900	40910
40920		40930	40940	40950
40960		40970	40980	40990
41000		41010	41020	41030
41040		41050	41060	41070
41080		41090	41100	41110
41120		41130	41140	41150
41160		41170	41180	41190
41200		41210	41220	41230
41240		41250	41260	41270
41280		41290	41300	41310
41320		41330	41340	41350
41360		41370	41380	41390
41400		41410	41420	41430
41440		41450	41460	41470
41480		41490	41500	41510
41520		41530	41540	41550
41560		41570	41580	41590
41600		41610	41620	41630
41640		41650	41660	41670
41680		41690	41700	41710
41720		41730	41740	41750
41760		41770	41780	41790

41800 Timer Register

41791 - 41798 Time/Date Register

Key : UPPER CASE LETTER = DOCUMENTED; lower case letter = un-documented

B = In both Logic and I/O

- = Available

L = In Logic only

? = Documented, but not used

M = In I/O only

OX Reference Values

00001 = 0 E	00002 = 0 E	00003 = 0 E	00004 = 0 E	00005 = 0 E
00006 = 0 E	00007 = 0 E	00008 = 0 E	00009 = 0 E	00010 = 0 E
00011 = 0 E	00012 = 0 E	00013 = 0 E	00014 = 0 E	00015 = 0 E
00016 = 0 E	00017 = 0 E	00018 = 0 E	00019 = 0 E	00020 = 0 E
00021 = 0 E	00022 = 0 E	00023 = 0 E	00024 = 0 E	00025 = 0 E
00026 = 0 E	00027 = 0 E	00028 = 0 E	00029 = 0 E	00030 = 0 E
00031 = 0 E	00032 = 0 E	00033 = 0 E	00034 = 0 E	00035 = 0 E
00036 = 0 E	00037 = 0 E	00038 = 0 E	00039 = 0 E	00040 = 0 E
00041 = 0 E	00042 = 0 E	00043 = 0 E	00044 = 0 E	00045 = 0 E
00046 = 0 E	00047 = 0 E	00048 = 0 E	00049 = 0 E	00050 = 0 E
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00056 = 0 E	00057 = 0 E	00058 = 0 E	00059 = 0 E	00060 = 0 E
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00066 = 0 E	00067 = 0 E	00068 = 0 E	00069 = 0 E	00070 = 0 E
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00161 = 0 E	00162 = 0 E	00163 = 0 E	00164 = 0 E	00165 = 0 E
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00176 = 0 E	00177 = 0 E	00178 = 0 E	00179 = 0 E	00180 = 0 E
00181 = 0 E	00182 = 0 E	00183 = 0 E	00184 = 0 E	00185 = 0 E
00186 = 0 E	00187 = 0 E	00188 = 0 E	00189 = 0 E	00190 = 0 E
00191 = 0 E	00192 = 0 E	00193 = 0 E	00194 = 0 E	00195 = 0 E
00196 = 0 E	00197 = 0 E	00198 = 0 E	00199 = 0 E	00200 = 0 E
00201 = 0 E	00202 = 0 E	00203 = 0 E	00204 = 0 E	00205 = 0 E
00206 = 0 E	00207 = 0 E	00208 = 0 E	00209 = 0 E	00210 = 0 E
00211 = 0 E	00212 = 0 E	00213 = 0 E	00214 = 0 E	00215 = 0 E
00216 = 0 E	00217 = 0 E	00218 = 0 E	00219 = 0 E	00220 = 0 E
00221 = 0 E	00222 = 0 E	00223 = 0 E	00224 = 0 E	00225 = 0 E
00226 = 0 E	00227 = 0 E	00228 = 0 E	00229 = 0 E	00230 = 0 E
00231 = 0 E	00232 = 0 E	00233 = 0 E	00234 = 0 E	00235 = 0 E
00236 = 0 E	00237 = 0 E	00238 = 0 E	00239 = 0 E	00240 = 0 E
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00251 = 0 E	00252 = 0 E	00253 = 0 E	00254 = 0 E	00255 = 0 E
00256 = 0 E	00257 = 0 E	00258 = 0 E	00259 = 0 E	00260 = 0 E
00261 = 0 E	00262 = 0 E	00263 = 0 E	00264 = 0 E	00265 = 0 E

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

01386 = 0 E	01387 = 0 E	01388 = 0 E	01389 = 0 E	01390 = 0 E
01391 = 0 E	01392 = 0 E	01393 = 0 E	01394 = 0 E	01395 = 0 E
01396 = 0 E	01397 = 0 E	01398 = 0 E	01399 = 0 E	01400 = 0 E
01401 = 0 E	01402 = 0 E	01403 = 0 E	01404 = 0 E	01405 = 0 E
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01416 = 0 E	01417 = 0 E	01418 = 0 E	01419 = 0 E	01420 = 0 E
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01461 = 0 E	01462 = 0 E	01463 = 0 E	01464 = 0 E	01465 = 0 E
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01516 = 0 E	01517 = 0 E	01518 = 0 E	01519 = 0 E	01520 = 0 E
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01526 = 0 E	01527 = 0 E	01528 = 0 E	01529 = 0 E	01530 = 0 E
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01566 = 0 E	01567 = 0 E	01568 = 0 E	01569 = 0 E	01570 = 0 E
01571 = 0 E	01572 = 0 E	01573 = 0 E	01574 = 0 E	01575 = 0 E
01576 = 0 E	01577 = 0 E	01578 = 0 E	01579 = 0 E	01580 = 0 E
01581 = 0 E	01582 = 0 E	01583 = 0 E	01584 = 0 E	01585 = 0 E
01586 = 0 E	01587 = 0 E	01588 = 0 E	01589 = 0 E	01590 = 0 E
01591 = 0 E	01592 = 0 E	01593 = 0 E	01594 = 0 E	01595 = 0 E
01596 = 0 E	01597 = 0 E	01598 = 0 E	01599 = 0 E	01600 = 0 E

1X Reference Values

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10006 = 0 E	10007 = 0 E	10008 = 0 E	10009 = 0 E	10010 = 0 E
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10016 = 0 E	10017 = 0 E	10018 = 0 E	10019 = 0 E	10020 = 0 E
10021 = 0 E	10022 = 0 E	10023 = 0 E	10024 = 0 E	10025 = 0 E
10026 = 0 E	10027 = 0 E	10028 = 0 E	10029 = 0 E	10030 = 0 E
10031 = 0 E	10032 = 0 E	10033 = 0 E	10034 = 0 E	10035 = 0 E
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10041 = 0 E	10042 = 0 E	10043 = 0 E	10044 = 0 E	10045 = 0 E
10046 = 0 E	10047 = 0 E	10048 = 0 E	10049 = 0 E	10050 = 0 E
10051 = 0 E	10052 = 0 E	10053 = 0 E	10054 = 0 E	10055 = 0 E
10056 = 0 E	10057 = 0 E	10058 = 0 E	10059 = 0 E	10060 = 0 E
10061 = 0 E	10062 = 0 E	10063 = 0 E	10064 = 0 E	10065 = 0 E
10066 = 0 E	10067 = 0 E	10068 = 0 E	10069 = 0 E	10070 = 0 E
10071 = 0 E	10072 = 0 E	10073 = 0 E	10074 = 0 E	10075 = 0 E
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10081 = 0 E	10082 = 0 E	10083 = 0 E	10084 = 0 E	10085 = 0 E
10086 = 0 E	10087 = 0 E	10088 = 0 E	10089 = 0 E	10090 = 0 E
10091 = 0 E	10092 = 0 E	10093 = 0 E	10094 = 0 E	10095 = 0 E
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10101 = 0 E	10102 = 0 E	10103 = 0 E	10104 = 0 E	10105 = 0 E
10106 = 0 E	10107 = 0 E	10108 = 0 E	10109 = 0 E	10110 = 0 E
10111 = 0 E	10112 = 0 E	10113 = 0 E	10114 = 0 E	10115 = 0 E
10116 = 0 E	10117 = 0 E	10118 = 0 E	10119 = 0 E	10120 = 0 E
10121 = 0 E	10122 = 0 E	10123 = 0 E	10124 = 0 E	10125 = 0 E
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10131 = 0 E	10132 = 0 E	10133 = 0 E	10134 = 0 E	10135 = 0 E
10136 = 0 E	10137 = 0 E	10138 = 0 E	10139 = 0 E	10140 = 0 E
10141 = 0 E	10142 = 0 E	10143 = 0 E	10144 = 0 E	10145 = 0 E
10146 = 0 E	10147 = 0 E	10148 = 0 E	10149 = 0 E	10150 = 0 E
10151 = 0 E	10152 = 0 E	10153 = 0 E	10154 = 0 E	10155 = 0 E
10156 = 0 E	10157 = 0 E	10158 = 0 E	10159 = 0 E	10160 = 0 E
10161 = 0 E	10162 = 0 E	10163 = 0 E	10164 = 0 E	10165 = 0 E
10166 = 0 E	10167 = 0 E	10168 = 0 E	10169 = 0 E	10170 = 0 E
10171 = 0 E	10172 = 0 E	10173 = 0 E	10174 = 0 E	10175 = 0 E
10176 = 0 E	10177 = 0 E	10178 = 0 E	10179 = 0 E	10180 = 0 E
10181 = 0 E	10182 = 0 E	10183 = 0 E	10184 = 0 E	10185 = 0 E
10186 = 0 E	10187 = 0 E	10188 = 0 E	10189 = 0 E	10190 = 0 E
10191 = 0 E	10192 = 0 E	10193 = 0 E	10194 = 0 E	10195 = 0 E
10196 = 0 E	10197 = 0 E	10198 = 0 E	10199 = 0 E	10200 = 0 E
10201 = 0 E	10202 = 0 E	10203 = 0 E	10204 = 0 E	10205 = 0 E
10206 = 0 E	10207 = 0 E	10208 = 0 E	10209 = 0 E	10210 = 0 E
10211 = 0 E	10212 = 0 E	10213 = 0 E	10214 = 0 E	10215 = 0 E
10216 = 0 E	10217 = 0 E	10218 = 0 E	10219 = 0 E	10220 = 0 E
10221 = 0 E	10222 = 0 E	10223 = 0 E	10224 = 0 E	10225 = 0 E
10226 = 0 E	10227 = 0 E	10228 = 0 E	10229 = 0 E	10230 = 0 E
10231 = 0 E	10232 = 0 E	10233 = 0 E	10234 = 0 E	10235 = 0 E
10236 = 0 E	10237 = 0 E	10238 = 0 E	10239 = 0 E	10240 = 0 E
10241 = 0 E	10242 = 0 E	10243 = 0 E	10244 = 0 E	10245 = 0 E
10246 = 0 E	10247 = 0 E	10248 = 0 E	10249 = 0 E	10250 = 0 E
10251 = 0 E	10252 = 0 E	10253 = 0 E	10254 = 0 E	10255 = 0 E
10256 = 0 E				

CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

41661 = 00000 0000 ..	41662 = 00000 0000 ..	41663 = 00000 0000 ..	41664 = 00000 0000 ..	41665 = 00000 0000 ..
41666 = 00000 0000 ..	41667 = 00000 0000 ..	41668 = 00000 0000 ..	41669 = 00000 0000 ..	41670 = 00000 0000 ..
41671 = 00000 0000 ..	41672 = 00000 0000 ..	41673 = 00000 0000 ..	41674 = 00000 0000 ..	41675 = 00000 0000 ..
41676 = 00000 0000 ..	41677 = 00000 0000 ..	41678 = 00000 0000 ..	41679 = 00000 0000 ..	41680 = 00000 0000 ..
41681 = 00000 0000 ..	41682 = 00000 0000 ..	41683 = 00000 0000 ..	41684 = 00000 0000 ..	41685 = 00000 0000 ..
41686 = 00000 0000 ..	41687 = 00000 0000 ..	41688 = 00000 0000 ..	41689 = 00000 0000 ..	41690 = 00000 0000 ..
41691 = 00000 0000 ..	41692 = 00000 0000 ..	41693 = 00000 0000 ..	41694 = 00000 0000 ..	41695 = 00000 0000 ..
41696 = 00000 0000 ..	41697 = 00000 0000 ..	41698 = 00000 0000 ..	41699 = 00000 0000 ..	41700 = 00000 0000 ..
41701 = 00000 0000 ..	41702 = 00000 0000 ..	41703 = 00000 0000 ..	41704 = 00000 0000 ..	41705 = 00000 0000 ..
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41726 = 00000 0000 ..	41727 = 00000 0000 ..	41728 = 00000 0000 ..	41729 = 00000 0000 ..	41730 = 00000 0000 ..
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41781 = 00000 0000 ..	41782 = 00000 0000 ..	41783 = 00000 0000 ..	41784 = 00000 0000 ..	41785 = 00000 0000 ..
41786 = 00000 0000 ..	41787 = 00000 0000 ..	41788 = 00000 0000 ..	41789 = 00000 0000 ..	41790 = 00000 0000 ..
41791 = 00000 0000 ..	41792 = 00000 0000 ..	41793 = 00000 0000 ..	41794 = 00000 0000 ..	41795 = 00000 0000 ..
41796 = 00000 0000 ..	41797 = 00000 0000 ..	41798 = 00000 0000 ..	41799 = 00000 0000 ..	41800 = 58842 E5DA ..

Parameters for Documentation

PRINTER ->	Destination	Generic Wide page->LEJUNEBW.OUT
SECTIONS	Configuration	Y
	Segments	001
	SFC Steps	
	Networks	ALL
	List Network Titles	Y
	Macros	
	ASCII Messages	NONE
REFDESC	Reference Values	ALL
	Reference Usage Tables	Y
	Global Cross Reference	BOTH
	Local Cross Reference	Y
	Network Comments	Y
MISC	Documentation Parameters	Y
	Program Information	Y
	Table Of Contents	Y
	Single Network Per Page	Y
	Print Descriptors Above Node	Y
	Print Coils At Right Margin	Y
HEADER	Filename	
	Page Header:	
	CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM	

Page Footer:
CAMP LEJUENE FILTER BACKWASH CONTROL SYSTEM

ENVIRONMENT INFORMATION

LOAD CHG

Program Name: \MODSOFT\PROGRAMS\LEJUNEBW.ENV
 Ladder File: C:\MODSOFT\PROGRAMS\LEJUNEBW.PRG
 Ladder Comments: C:\MODSOFT\PROGRAMS\LEJUNEBW.PCM
 Symbols and Descriptors: C:\MODSOFT\PROGRAMS\LEJUNEBW.RFS
 Configuration: C:\MODSOFT\PROGRAMS\LEJUNEBW.CFG
 Reference Values: C:\MODSOFT\PROGRAMS\LEJUNEBW.RFD
 ASCII Messages: C:\MODSOFT\PROGRAMS\LEJUNEBW.ASC
 Loadable and Macro Path: C:\MODSOFT\PROGRAMS\

Current Segment:	1	Segment	0	1	2	3	4	5	6	7	8	9
Current Network:	2	0x	*	X	-	-	-	-	-	-	-	-
		1x	-	-	-	-	-	-	-	-	-	-
		2x	-	-	-	-	-	-	-	-	-	-
Revision Number:	0	3x	-	-	-	-	-	-	-	-	-	-
		X:	Occupied	-:	Empty							

PLC Type: MICRO	Offline	Ranges:	01600	Name:	Roy Ratajeski
			10256	Company:	Curry Controls Co
			30032		
Modsoft 984			41800		
Modsoft Ver: 2.21					

Address	Protocol	Mode	Data Bits	Parity	Stop Bits	Baud	Device
1	MODBUS I	RTU	8	EVEN	1	9600	COM1

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4X Register Values	Page: 29



