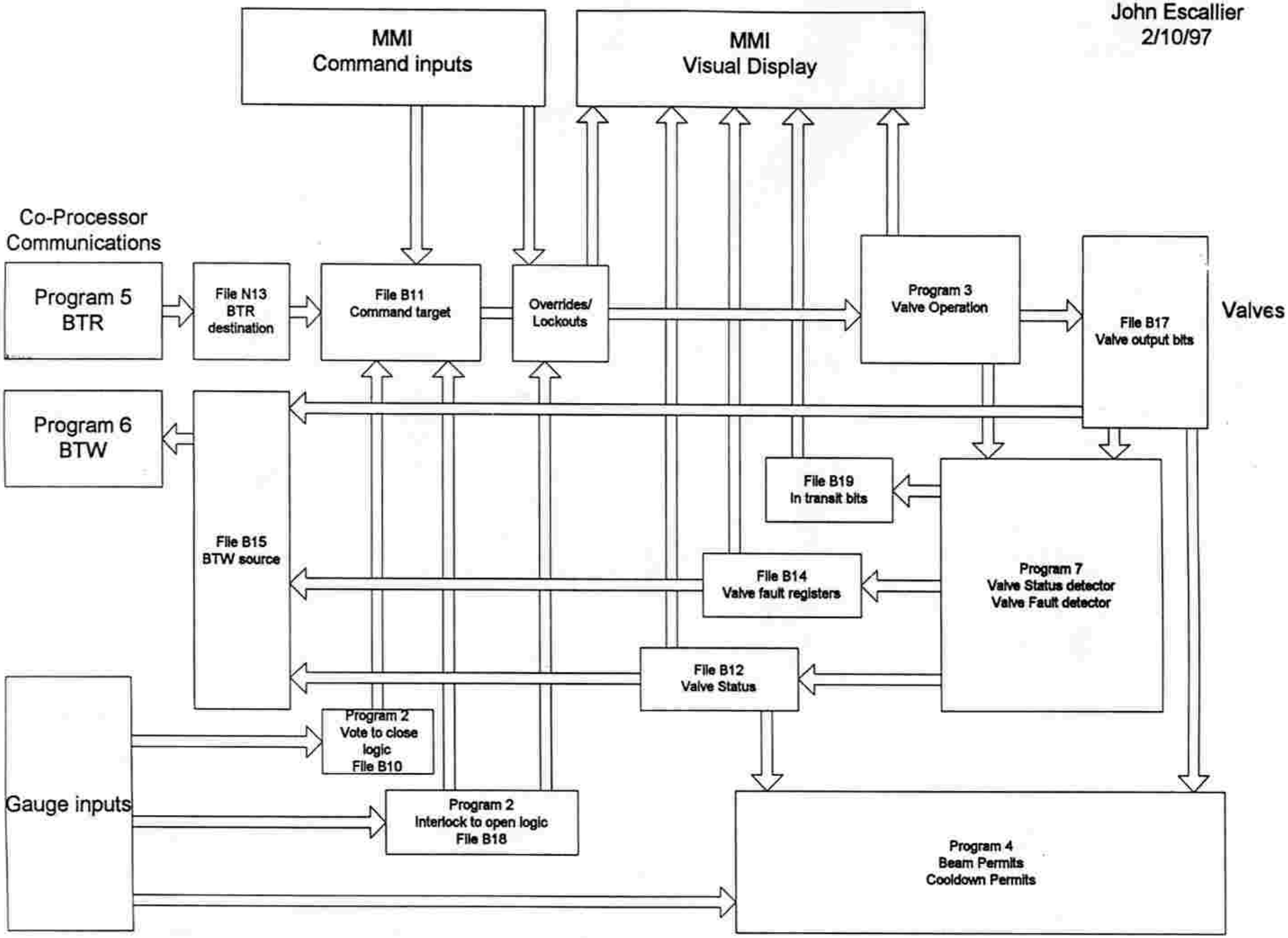
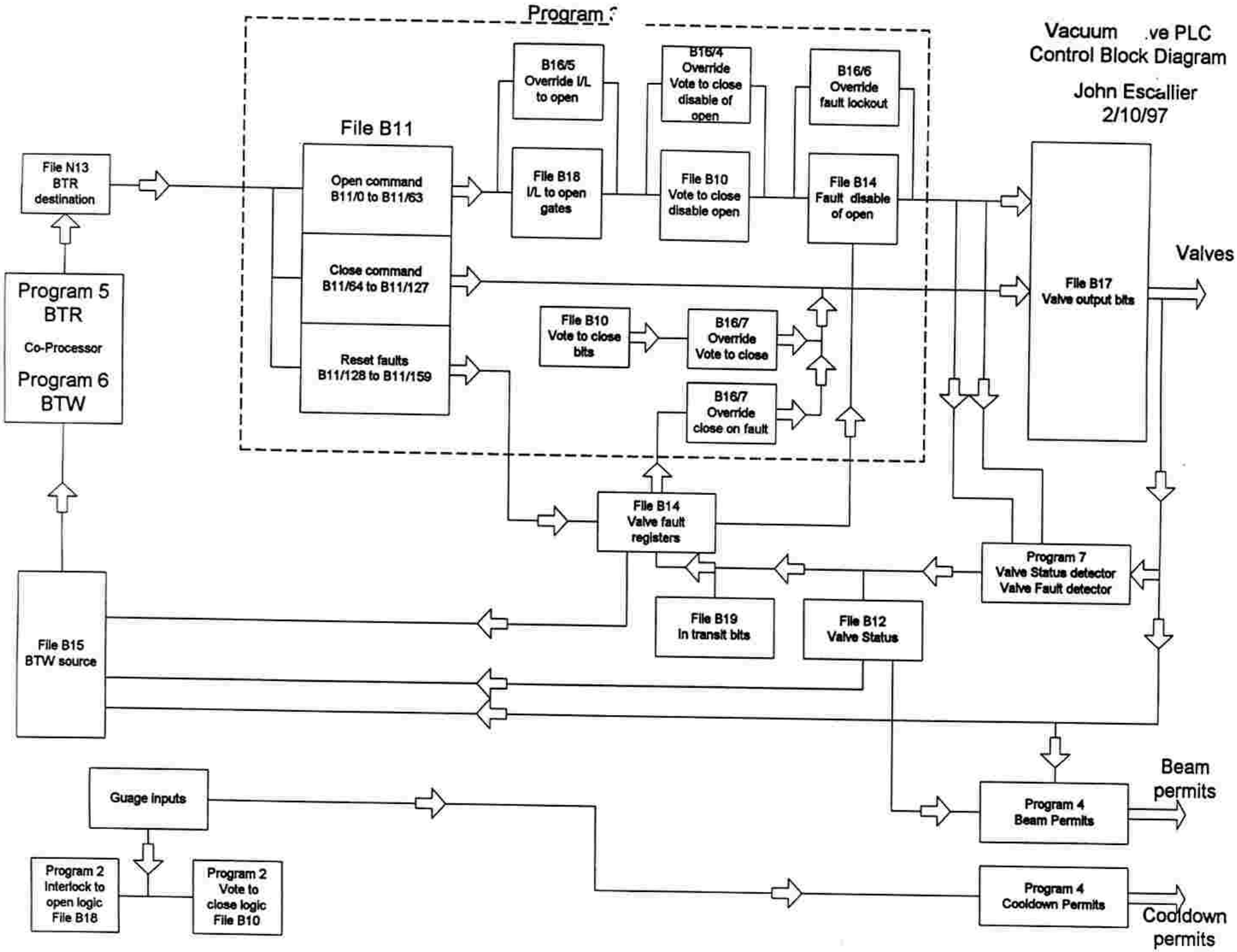
Vacuum ve PLC
Control Block Diagram

John Escallier
2/10/97




Program ?
Vacuum .ve PLC
Control Block Diagram
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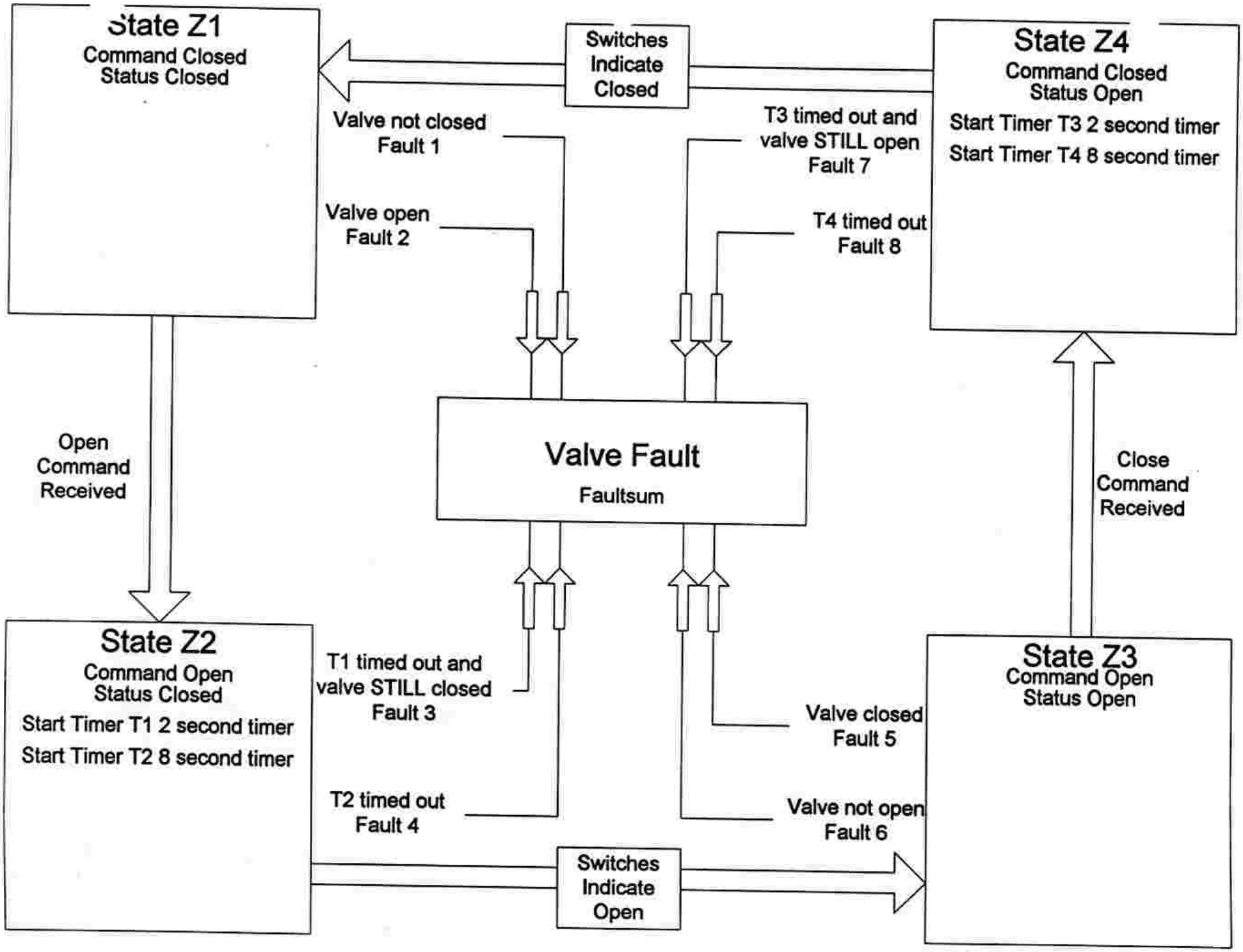
File B11
File N13
BTR
destination
Open command
B11/0 to B11/63
Close command
B11/64 to B11/127
Reset faults
B11/128 to B11/159
B16/5
Override I/L
to open
File B18
I/L to open
gates
B16/4
Override
Vote to close
disable of
open
File B10
Vote to close
disable open
B16/6
Override
fault lockout
File B14
Fault disable
of open
File B17
Valve output bits
Valves
Program 5
BTR
Co-Processor
Program 6
BTW
File B10
Vote to close
bits
B16/7
Override
Vote to close
B16/7
Override
close on fault
File B14
Valve fault
registers
Program 7
Valve Status detector
Valve Fault detector
File B19
In transit bits
File B12
Valve Status
File B15
BTW source
Guage inputs
Program 2
Interlock to
open logic
File B18
Program 2
Vote to
close logic
File B10
Program 4
Beam Permits
Beam
permits
Program 4
Cooldown Permits
Cooldown
permits


State Z1
Command Closed
Status Closed
Switches
Indicate
Closed
State Z4
Command Closed
Status Open
Start Timer T3 2 second timer
Start Timer T4 8 second timer
Valve not closed
Fault 1
Valve open
Fault 2
T3 timed out and
valve STILL open
Fault 7
T4 timed out
Fault 8
Valve Fault
Faultsum
Open
Command
Received
Close
Command
Received
State Z2
Command Open
Status Closed
Start Timer T1 2 second timer
Start Timer T2 8 second timer
T1 timed out and
valve STILL closed
Fault 3
T2 timed out
Fault 4
Valve closed
Fault 5
Valve not open
Fault 6
State Z3
Command Open
Status Open
Switches
Indicate
Open