

I ~~XXXXXX~~ have made the attached code changes to
16-4-64-10 Satellite to provide a latched trip feature for the
group inlet valves. The group valves will now tripped closed and latch in
that position if a AC power failure, low instrument air pressure, or high
group line pressure alarm occurs. The following logic has been tested on
July 13, 2011 and has been confirmed to operate correctly. In
the event of one of the above alarms a local reset must be pressed at the
satellite to reopen the group inlets.

~~XXXXXXXXXX~~

January 4/11

VALVE: Source code

(* When the AC Power fail input is open for 2 minutes this sets the AC_FAIL_2_MIN *)



(* This rung creates the group permissive for all the produce commands. Elsewhere as fail for 2 min or a group hi pressure alarm will result in the group valves closing *)



(* This rung creates the test permissive for all the test commands. A sep high level or a hi sep pressure or a low instrument air will close the test valves *)



(* This rung controls the test sep inlet valve *)



(* well 1 produce command *)



(* well 1 test command *)



(* well 2 produce command *)



(* well 2 test command *)



(* well 3 produce command *)



(* well 3 test command *)



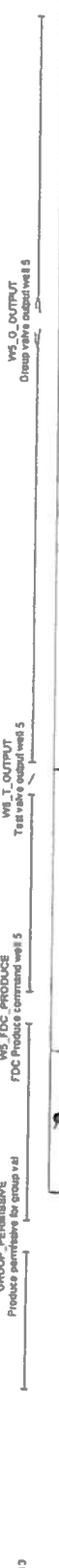
(* well 4 produce command *)



(* well 4 test command *)



(* well 5 produce command *)

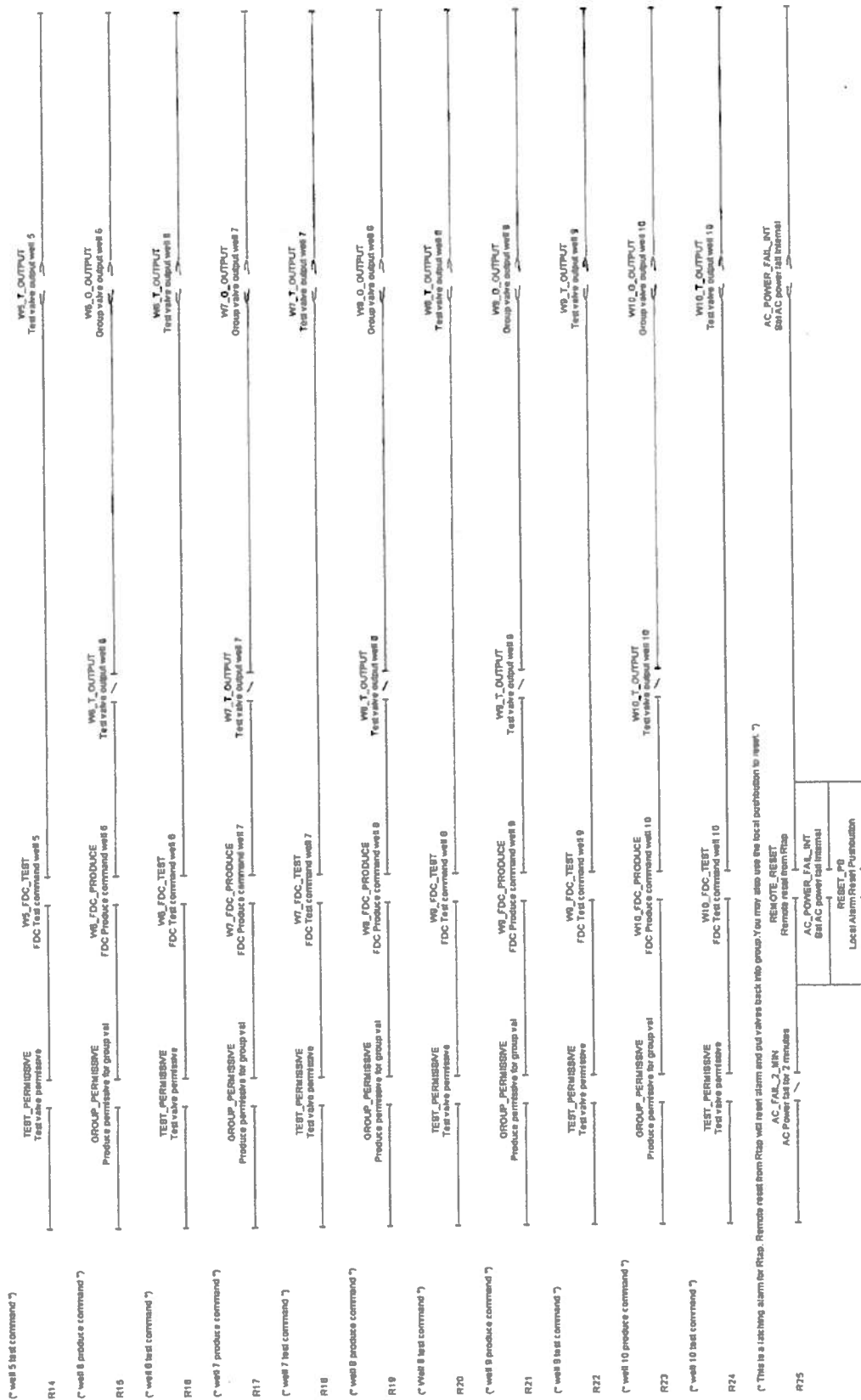


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VALVE: Source code



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(C) This is a latching alarm for Rtap. Reminds reset from Rtap will reset alarm and put valves back into group. You may also use the local pushbutton to reset.

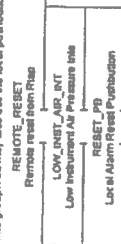
GROUP_HL_PRES03
Group Line High Pressure



GROUP_HI_PRESS_INT
Group Line High Pressure Internal

^c This is a locking alarm for Rtap. Remote reset from Rtap will reset alarm and put value back into group. You may also use the local pushbutton to reset. *)

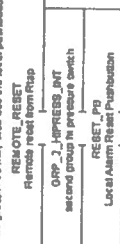
LOW_BEND_MOT



LOW_INBT_AIR_INT
Low Instrumented Air Pressure Inlet

"This is a lecturing alarm for Ring Remote reset from Ring and put values back into group. You may also use the local pushbutton to reset."

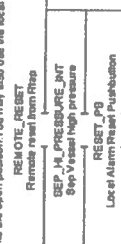
QRP_3_HIPRESS



ORIP_2_HAPRES_WJT

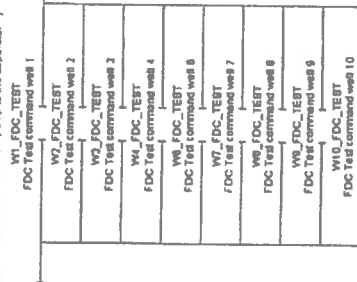
* This is a latching alarm for Rbap. Remote reset from Rbap will reset alarm and put valve back into the open position. You may also use the local pushbutton to reset.*

BEP_H_PRESSURE

BEP_HQ_PRESSURE_BNT
Bep Vessel high pressure

"When a 120 perrisolve is energized this will start up the chemical pump to the separator."

W1_FDC_TEST
FDC Test command was 1



CHEM_PUMP
Chemical Pump output

I ~~XXXXXX~~ have made the attached code changes to
4-20-63-11 Satellite to provide a latched trip feature for the
group inlet valves. The group valves will now tripped closed and latch in
that position if a AC power failure, low instrument air pressure, or high
group line pressure alarm occurs. The following logic has been tested on
August 28, 2011 and has been confirmed to operate correctly. In
the event of one of the above alarms a local reset must be pressed at the
satellite to reopen the group inlets.

~~422~~

January 4/11

VALVE: Source code

("When the AC Power fail hold is open for 2 minutes this sets the AC_FAIL_2_MIN")



("This rung creates the group permissive for all the produce commands. Either a ac fail for 2 min or a group H4 pressure alarm will result in the group valves closing")



("This rung creates the test permissive for all the test commands. A sep high level or a hi sep pressure or a low instrument air will close the test valves")



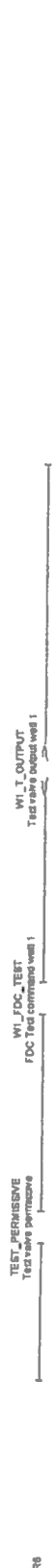
("This rung creates the test sep valve")



("well 1 produce command")



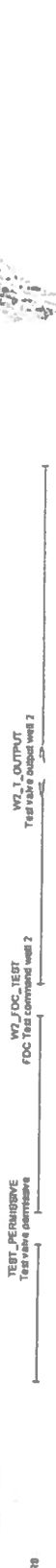
("well 1 test command")



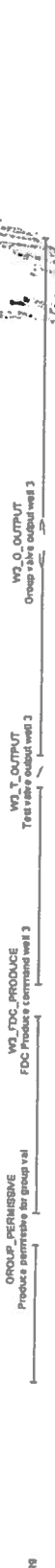
("well 2 produce command")



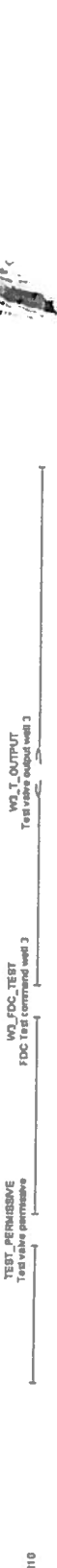
("well 2 test command")



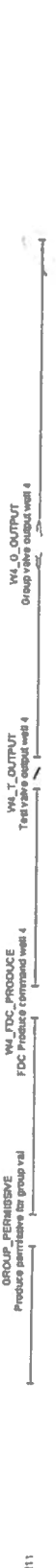
("well 3 produce command")



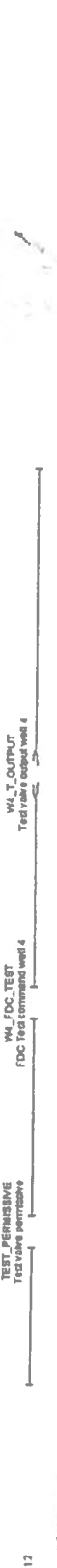
("well 3 test command")



("well 4 produce command")



("well 4 test command")



("well 5 produce command")

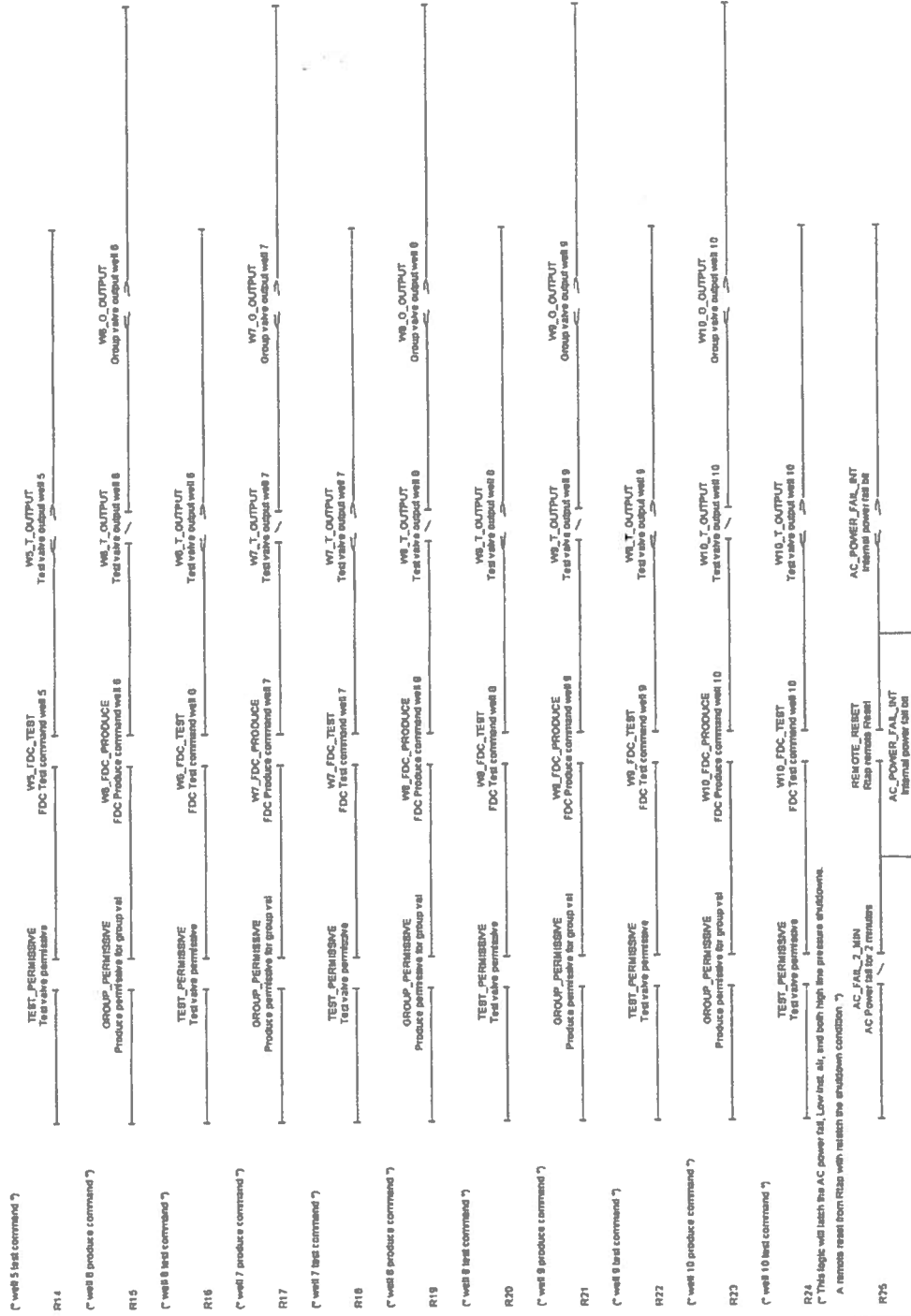


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VALVE: Source code

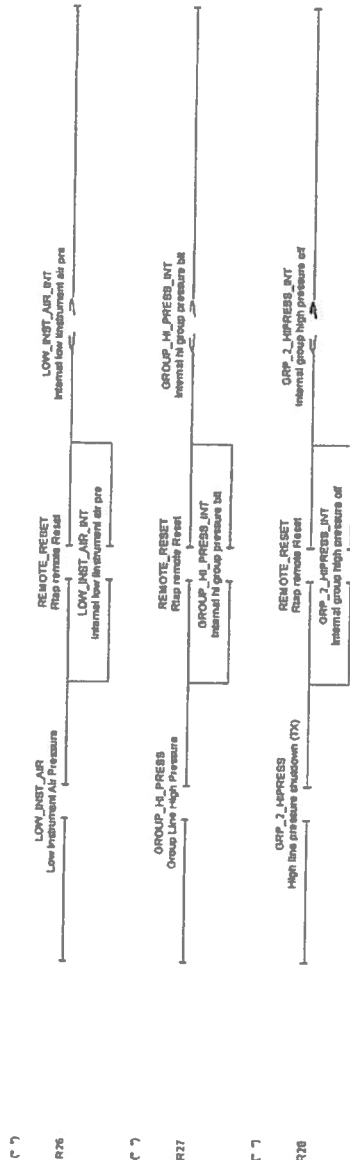


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VALVE: Source code



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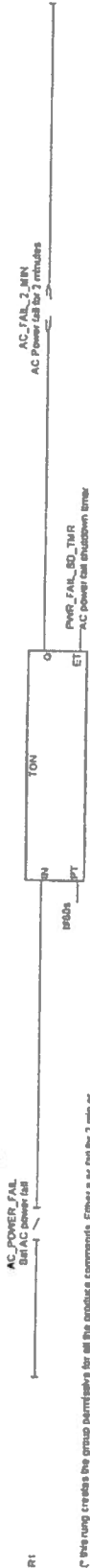
I ~~██████████~~ have made the attached code changes to
16-27-63-10 Satellite to provide a latched trip feature for the
group inlet valves. The group valves will now tripped closed and latch in
that position if a AC power failure, low instrument air pressure, or high
group line pressure alarm occurs. The following logic has been tested on
October 15, 2011 and has been confirmed to operate correctly. In
the event of one of the above alarms a local reset must be pressed at the
satellite to reopen the group inlets.

~~██████████~~
~~██████████~~

January 4/11

VALVE: Source code

(* When the AC Power fail input is open for 2 minutes this sets the AC_FAIL_2 MIN *)



(* This rung creates the group permissive for all the produce commands. Either a ac fail for 2 min or a group hi pressure alarm will result in the group valves closing *)



(* This rung creates the test permissive for all the test commands. A sep high level or a hi sep pressure or a low instrument air will stop the test valves *)



(* This rung controls the test sep relief valve *)



(* well 1 produce command *)



(* well 1 test command *)



(* well 2 produce command *)



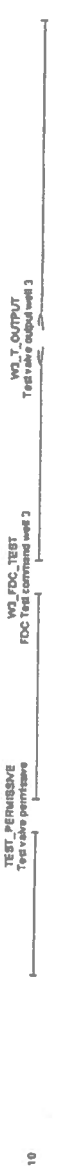
(* well 2 test command *)



(* well 3 produce command *)



(* well 3 test command *)



(* well 4 produce command *)



(* well 4 test command *)



(* well 5 produce command *)



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VALVE: Source code

(* well 5 test command *)	TEST_PERMISSIVE Test valve permissives		W5_FDC_TEST FDC Test command well 5		W5_I_OUTPUT Test valve output well 5	
	GROUP_PERMISSIVE Produce permissives for group val		W5_FDC_PRODUC FDC Produce command well 5		W5_O_OUTPUT Group valve output well 5	
(* well 6 test command *)	TEST_PERMISSIVE Test valve permissives		W6_FDC_TEST FDC Test command well 6		W6_I_OUTPUT Test valve output well 6	
	GROUP_PERMISSIVE Produce permissives for group val		W6_FDC_PRODUC FDC Produce command well 6		W6_O_OUTPUT Group valve output well 6	
(* well 7 test command *)	TEST_PERMISSIVE Test valve permissives		W7_FDC_TEST FDC Test command well 7		W7_I_OUTPUT Test valve output well 7	
	GROUP_PERMISSIVE Produce permissives for group val		W7_FDC_PRODUC FDC Produce command well 7		W7_O_OUTPUT Group valve output well 7	
(* well 8 test command *)	TEST_PERMISSIVE Test valve permissives		W8_FDC_TEST FDC Test command well 8		W8_I_OUTPUT Test valve output well 8	
	GROUP_PERMISSIVE Produce permissives for group val		W8_FDC_PRODUC FDC Produce command well 8		W8_O_OUTPUT Group valve output well 8	
(* well 9 test command *)	TEST_PERMISSIVE Test valve permissives		W9_FDC_TEST FDC Test command well 9		W9_I_OUTPUT Test valve output well 9	
	GROUP_PERMISSIVE Produce permissives for group val		W9_FDC_PRODUC FDC Produce command well 9		W9_O_OUTPUT Group valve output well 9	
(* well 10 test command *)	TEST_PERMISSIVE Test valve permissives		W10_FDC_TEST FDC Test command well 10		W10_I_OUTPUT Test valve output well 10	
	GROUP_PERMISSIVE Produce permissives for group val		W10_FDC_PRODUC FDC Produce command well 10		W10_O_OUTPUT Group valve output well 10	
(* well 11 test command *)	TEST_PERMISSIVE Test valve permissives		W11_FDC_TEST FDC Test command well 11		W11_I_OUTPUT Test valve output well 11	
	GROUP_PERMISSIVE Produce permissives for group val		W11_FDC_PRODUC FDC Produce command well 11		W11_O_OUTPUT Group valve output well 11	
(* well 12 test command *)	TEST_PERMISSIVE Test valve permissives		W12_FDC_TEST FDC Test command well 12		W12_I_OUTPUT Test valve output well 12	
	GROUP_PERMISSIVE Produce permissives for group val		W12_FDC_PRODUC FDC Produce command well 12		W12_O_OUTPUT Group valve output well 12	
(* well 13 test command *)	TEST_PERMISSIVE Test valve permissives		W13_FDC_TEST FDC Test command well 13		W13_I_OUTPUT Test valve output well 13	
	GROUP_PERMISSIVE Produce permissives for group val		W13_FDC_PRODUC FDC Produce command well 13		W13_O_OUTPUT Group valve output well 13	
(* well 14 test command *)	TEST_PERMISSIVE Test valve permissives		W14_FDC_TEST FDC Test command well 14		W14_I_OUTPUT Test valve output well 14	
	GROUP_PERMISSIVE Produce permissives for group val		W14_FDC_PRODUC FDC Produce command well 14		W14_O_OUTPUT Group valve output well 14	
(* well 15 test command *)	TEST_PERMISSIVE Test valve permissives		W15_FDC_TEST FDC Test command well 15		W15_I_OUTPUT Test valve output well 15	
	GROUP_PERMISSIVE Produce permissives for group val		W15_FDC_PRODUC FDC Produce command well 15		W15_O_OUTPUT Group valve output well 15	
(* well 16 test command *)	TEST_PERMISSIVE Test valve permissives		W16_FDC_TEST FDC Test command well 16		W16_I_OUTPUT Test valve output well 16	
	GROUP_PERMISSIVE Produce permissives for group val		W16_FDC_PRODUC FDC Produce command well 16		W16_O_OUTPUT Group valve output well 16	
(* well 17 test command *)	TEST_PERMISSIVE Test valve permissives		W17_FDC_TEST FDC Test command well 17		W17_I_OUTPUT Test valve output well 17	
	GROUP_PERMISSIVE Produce permissives for group val		W17_FDC_PRODUC FDC Produce command well 17		W17_O_OUTPUT Group valve output well 17	
(* well 18 test command *)	TEST_PERMISSIVE Test valve permissives		W18_FDC_TEST FDC Test command well 18		W18_I_OUTPUT Test valve output well 18	
	GROUP_PERMISSIVE Produce permissives for group val		W18_FDC_PRODUC FDC Produce command well 18		W18_O_OUTPUT Group valve output well 18	
(* well 19 test command *)	TEST_PERMISSIVE Test valve permissives		W19_FDC_TEST FDC Test command well 19		W19_I_OUTPUT Test valve output well 19	
	GROUP_PERMISSIVE Produce permissives for group val		W19_FDC_PRODUC FDC Produce command well 19		W19_O_OUTPUT Group valve output well 19	
(* well 20 test command *)	TEST_PERMISSIVE Test valve permissives		W20_FDC_TEST FDC Test command well 20		W20_I_OUTPUT Test valve output well 20	
	GROUP_PERMISSIVE Produce permissives for group val		W20_FDC_PRODUC FDC Produce command well 20		W20_O_OUTPUT Group valve output well 20	
(* well 21 test command *)	TEST_PERMISSIVE Test valve permissives		W21_FDC_TEST FDC Test command well 21		W21_I_OUTPUT Test valve output well 21	
	GROUP_PERMISSIVE Produce permissives for group val		W21_FDC_PRODUC FDC Produce command well 21		W21_O_OUTPUT Group valve output well 21	
(* well 22 test command *)	TEST_PERMISSIVE Test valve permissives		W22_FDC_TEST FDC Test command well 22		W22_I_OUTPUT Test valve output well 22	
	GROUP_PERMISSIVE Produce permissives for group val		W22_FDC_PRODUC FDC Produce command well 22		W22_O_OUTPUT Group valve output well 22	
(* well 23 test command *)	TEST_PERMISSIVE Test valve permissives		W23_FDC_TEST FDC Test command well 23		W23_I_OUTPUT Test valve output well 23	
	GROUP_PERMISSIVE Produce permissives for group val		W23_FDC_PRODUC FDC Produce command well 23		W23_O_OUTPUT Group valve output well 23	
(* well 24 test command *)	TEST_PERMISSIVE Test valve permissives		W24_FDC_TEST FDC Test command well 24		W24_I_OUTPUT Test valve output well 24	
	GROUP_PERMISSIVE Produce permissives for group val		W24_FDC_PRODUC FDC Produce command well 24		W24_O_OUTPUT Group valve output well 24	
(* well 25 test command *)	TEST_PERMISSIVE Test valve permissives		W25_FDC_TEST FDC Test command well 25		W25_I_OUTPUT Test valve output well 25	
	GROUP_PERMISSIVE Produce permissives for group val		W25_FDC_PRODUC FDC Produce command well 25		W25_O_OUTPUT Group valve output well 25	

(* This is a latching alarm for R25. Remote reset from R25 will reset alarm and put valves back into group. You may also use the local pushbutton to reset. *)

R25	AC_FAIL_2_MIN AC Power fail for 2 minutes		REMOTE_RESET Remote reset from R25		AC_POWER_FAIL_INT Bat AC power fail internal	
					RESET_PB Local Alarm Reset Pushbutton	



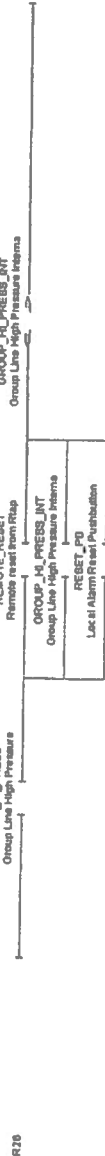
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VALVE: Source code

(* This is a latching alarm for Rlap. Remote reset from Rlap will reset alarm and put valves back into group. You may also use the local pushbutton to reset. *)



(* This is a latching alarm for Rlap. Remote reset from Rlap will reset alarm and put valves back into group. You may also use the local pushbutton to reset. *)



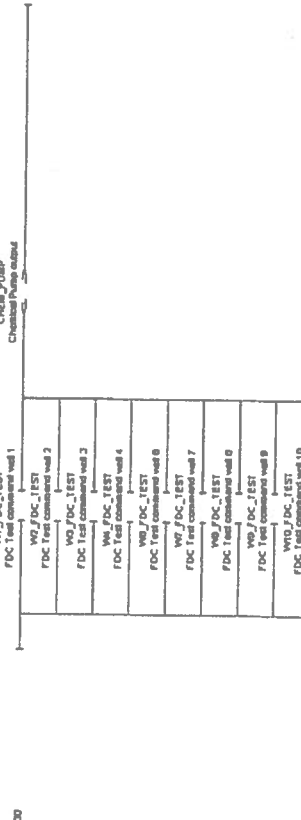
(* This is a latching alarm for Rlap. Remote reset from Rlap will reset alarm and put valves back into group. You may also use the local pushbutton to reset. *)



(* This is a latching alarm for Rlap. Remote reset from Rlap will reset alarm and put valve back into the open position. You may also use the local pushbutton to reset. *)




(* When a test is available it is displayed on the valve start up the circuit of pump in the separator. *)



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I  have made the attached code changes to

16-33-63-10 Satellite to provide a latched trip feature for the group inlet valves. The group valves will now tripped closed and latch in that position if a AC power failure, low instrument air pressure, or high group line pressure alarm occurs. The following logic has been tested on September 18, 2010 and has been confirmed to operate correctly. In the event of one of the above alarms a local reset must be pressed at the satellite to reopen the group inlets.

January 4/11

VALVE: Source code

(*When the AC Power fail input is open for 2 minutes this sets the AC_FAIL_2_MIN *)



(*This rung creates the group permissive for all the produce commands. Either a ac fail for 2 min or a group H pressure alarm will result in the group valves closing *)



(*This rung creates the test permissive for all the test commands. A sep high level or a test pressure or a low instrument air will stop the test valves *)



(*The rung creates the test stop valve *)



(*well 1 produce command *)



(*well 1 test command *)



(*well 2 produce command *)



(*well 2 test command *)



(*well 3 produce command *)



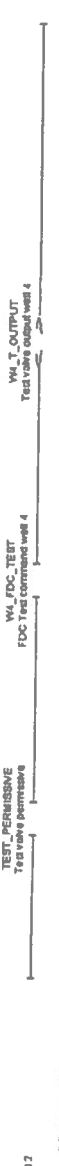
(*well 3 test command *)



(*well 4 produce command *)



(*well 4 test command *)



(*well 5 produce command *)

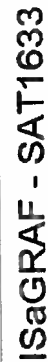


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<p>(“well 5 test command”)</p> <p>R14</p> <p>TEST_PERMISSIVE Test valve permissive</p> <p>WS_FDC_TEST FDC Test command well 5</p> <p>WS_T_OUTPUT Test valve output well 5</p>	<p>(“well 6 produce command”)</p> <p>R15</p> <p>GROUP_PERMISSIVE Produce permissive for group val</p> <p>WS_FDC_PRODUCE FDC Produce command well 6</p> <p>WS_O_OUTPUT Group valve output well 6</p>
<p>(“well 6 test command”)</p> <p>R16</p> <p>TEST_PERMISSIVE Test valve permissive</p> <p>WS_FDC_TEST FDC Test command well 6</p> <p>WS_T_OUTPUT Test valve output well 6</p>	<p>(“well 7 produce command”)</p> <p>R17</p> <p>GROUP_PERMISSIVE Produce permissive for group val</p> <p>WT_FDC_PRODUCE FDC Produce command well 7</p> <p>WT_O_OUTPUT Group valve output well 7</p>
<p>(“well 7 test command”)</p> <p>R18</p> <p>TEST_PERMISSIVE Test valve permissive</p> <p>WT_FDC_TEST FDC Test command well 7</p> <p>WT_T_OUTPUT Test valve output well 7</p>	<p>(“well 8 produce command”)</p> <p>R19</p> <p>GROUP_PERMISSIVE Produce permissive for group val</p> <p>WS_FDC_PRODUCE FDC Produce command well 8</p> <p>WS_O_OUTPUT Group valve output well 8</p>
<p>(“well 8 test command”)</p> <p>R20</p> <p>TEST_PERMISSIVE Test valve permissive</p> <p>WS_FDC_TEST FDC Test command well 8</p> <p>WS_T_OUTPUT Test valve output well 8</p>	<p>(“well 9 produce command”)</p> <p>R21</p> <p>GROUP_PERMISSIVE Produce permissive for group val</p> <p>WS_FDC_PRODUCE FDC Produce command well 9</p> <p>WS_O_OUTPUT Group valve output well 9</p>
<p>(“well 9 test command”)</p> <p>R22</p> <p>TEST_PERMISSIVE Test valve permissive</p> <p>WS_FDC_TEST FDC Test command well 9</p> <p>WS_T_OUTPUT Test valve output well 9</p>	<p>(“well 10 produce command”)</p> <p>R23</p> <p>GROUP_PERMISSIVE Produce permissive for group val</p> <p>W10_FDC_PRODUCE FDC Produce command well 10</p> <p>W10_O_OUTPUT Group valve output well 10</p>
<p>(“well 10 test command”)</p> <p>R24</p> <p>TEST_PERMISSIVE Test valve permissive</p> <p>W10_FDC_TEST FDC Test command well 10</p> <p>W10_T_OUTPUT Test valve output well 10</p>	<p>(“This is a latching alarm for R16p. Remote reset from R16p will reset alarm and put valves back into group. You may also use the local pushbutton to reset.”)</p> <p>R25</p> <p>AC_ALARM AC Alarm</p> <p>AC_FAL_2_MIN AC Power fail for 2 minutes</p> <p>AC_POWER_FAIL_INT Bad AC power fail internal</p> <p>RESETE_P10 Reset P10</p> <p>AC_POWER_FAIL_INT Bad AC power fail internal</p> <p>RESETE_P10 Reset P10</p> <p>Local Alarm Reset Pushbutton</p>



VALVE: Source code

⚠ This is a latching alarm for Rlap. Remote reset from Rlap will reset alarm and put valves back into group. You may also use the local pushbutton to reset. ⚠



⚠ This is a latching alarm for Rlap. Remote reset from Rlap will reset alarm and put valves back into group. You may also use the local pushbutton to reset. ⚠



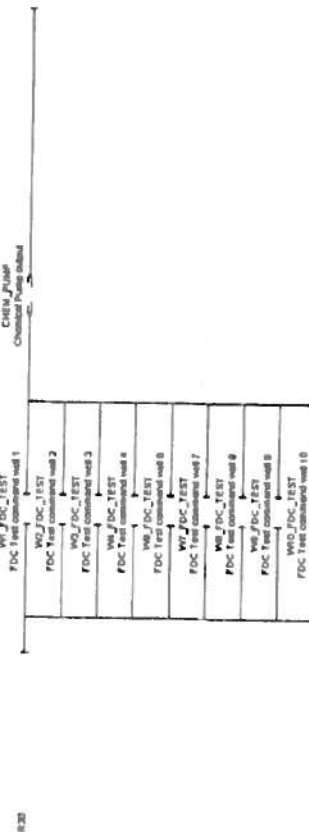
⚠ This is a latching alarm for Rlap. Remote reset from Rlap will reset alarm and put valves back into group. You may also use the local pushbutton to reset. ⚠



⚠ This is a latching alarm for Rlap. Remote reset from Rlap will reset alarm and put valves back into the open position. You may also use the local pushbutton to reset. ⚠



⚠ When a test permeation is engaged the well start up the chemical pump to the separator. ⚠



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