

Water	->	V301	closed	->	<b>ALARM</b>	->	System OFF										
		V301	opened	->	3B3 low	->	<b>ALARM</b>	->	System OFF								
					3B2 high	->	3B10 low	->	<b>WARNING</b>	->	3M4 OFF						
					3B10 high	->	<b>ALARM</b>	->	System OFF								
					3B3 high	->	3B2 low	->	<b>GOOD</b>	->	3M4 ON	->	3B1 above	->	<b>WARNING</b>	->	3M1 OFF
												->	3B1 below	->	<b>NOTHING</b>	->	3M1 ON
												->	3B1 good	->	3M3 OFF	->	<b>WARNING</b>
														->	3M3 ON (PUMP)	->	STATION 4

V301 == „closed“	=>	<b>ALARM</b>															
V301 == „opened“	&&	3B3 (low sensor) == „low“	=>	<b>ALARM</b>													
V301 == „opened“	&&	3B2 (middle sensor) == „high“	&&	<b>ALARM</b>	3B10(high sensor) == „low“	=>	<b>WARNING</b>										
V301 == „opened“	&&	3B10 (high sensor) == „high“	=>	<b>ALARM</b>													
V301 == „opened“	&&	3B3 (low sensor) == „high“	&&	3B2(middle sensor) == „low“	=>	GOOD											
V301 == „opened“	&&	3B3 (low sensor) == „high“	&&	3B2(middle sensor) == „low“	&&	3B1(tempraturesensor) == „above“	=>	<b>WARNING</b>									
V301 == „opened“	&&	3B3 (low sensor) == „high“	&&	3B2(middle sensor) == „low“	&&	3B1(tempraturesensor) == „below“	=>	<b>NOTHING</b>									
V301 == „opened“	&&	3B3 (low sensor) == „high“	&&	3B2(middle sensor) == „low“	&&	3B1(tempraturesensor) == „good“	&&	3M3 == „turnedOFF“	=>	<b>WARNING</b>							

V301 == „opened“	&&	3B3 (low sensor) == „high“	&&	3B2(middle sensor) == „low“	&&	3B1(tempraturesensor) == „good“	&&	3M3 == „turnedOn“	=>	<b>GOOD</b>
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<http://sequencediagram.org>

title Reactor Station

V301->Tank B301: fill tank

note over Tank B301: flued sensors: \n3B2, 3B3, 3B10

V301<-Tank B301:check sensor values

note over Tank B301: thermometer:\n 3B1

Tank B301-> 3M1: switch state

Tank B301-> 3M4: switch state

Tank B301->3M3:flush to pump

note over 3M3: If temperature is above circulate water

3M3->Tank B301:circulate water

Tank B301->3M2:water flush to pump

3M2->Station 4:water to next station