	Troubleshooting method for electromagnetic shut-off valve of hydrocracking unit								
When an	When an accident occurs, contact the dispatcher, instrument, and department on-duty leader, send information and maintain communication, grasp								
the situa	the situation of the unit and respond in time, contact upstream feed units and downstream product units, and change the line.								
Serial number	Solenoid valve position number	description	Phenomenon after abnormal closing/opening	Main hazard	Disposal method				
1	UV11012	P102 outlet shut-off valve	 The valve status on DCS turns red, SIS displays interlock and keeps alarming. The device feed rate FIC11803 drops to zero, alarm. P102 interlocks shutdown. F101 main burner shut-off valve UV14801, UV14802 closed. Hydraulic turbine ST101 interlock, LV12105A closed. 	 The unit feed is interrupted The furnace is interlocked shutdown. Hydraulic turbine interlock, D106 liquid level fluctuates greatly; Large fluctuations in the temperature of the hydrocracking bed. Flange leakage. 	 Contact dispatch to stop supplying feed and change all products to unqualified line. Confirm on-site that the outlet shut-off valve is closed, the pump is interlocked shutdown, and close the pump outlet hand valve, electric valve, and standby pump warm-up line. Confirm the interlocking of heating furnace and hydraulic turbine. Adjust the load of the new hydrogen compressor according to the system pressure. Adjust and monitor the temperature of each bed in the reactor. Establish fractionation short circulation. After the temperature of the reaction bed is controllable, resume feeding and start work. 				
					9. Strengthen the inspection of high-pressure parts on site.				
2	UV14801	Main burner	1. The valve status on DCS turns red SIS displays	1. The temperature at the outlet of the furnace drops	1. Do unit emergency feed reduction. Adjust fractionation				
	0111002	Samo		outor of the furnade drops,					

		shut-off	interlock and keeps	causing the temperature of the	2 Quickly adjust the negative pressure in the furnace
				P101 reaction had to be too	Confirm that the main hurner shut, off value of the heating
		valve	2 The fuel are flow	low and hydrogonation door	furnace is closed; close the hand value at the reat of the
			Z. The fuel gas now	not react	main human
			FICQ14801 Instantiy		main purner.
			returns to zero.	2. Unrefined feedstock oil	3. Confirm whether the pilot is burning normally.
			3. The furnace	enters R102, poisoning the	4. Adjust the load of the new hydrogen compressor
			temperature of the	cracking catalyst.	according to the system pressure.
			heating furnace and the	3. The hydrogen consumption	5. Manually open the main burner shut-off valve, ignite the
			temperature of the	of the reaction is rapidly	main burner, and gradually resume production.
			furnace outlet drop	reduced and the system is	
			rapidly.	overpressured.	
			4. The negative pressure	4. The negative pressure is too	
			in the furnace decreases	low and the pilot is	
			rapidly and the oxygen	extinguished.	
			content rises sharply		
3	UV14803	Heating	1. The valve status on DCS	1. The main burner shut-off	1. Confirm on-site that the main burner and pilot light
	UV14804	furnace	turns red, SIS displays	valve and the pilot light	shut-off valve are closed.
		pilot	interlock and keeps	shut-off valve are interlocked	2. Close the the hand valve at the root of the pilot and
		shut-off	alarming	and closed;	main burner, close the main burner control valve.
		valve		2. The temperature at the	3. The reaction system feed is reduced to maintain
				outlet of the furnace drops,	production, and the fractionation is adjusted according to
				causing the temperature of the	the reaction conditions.
				R101 reaction bed to be too	4. Adjust the load of the new hydrogen compressor
				low, and hydrogenation does	according to the system pressure.
				not react.	5. Open the pilot light shut-off valve manually on site. After
				3. Unrefined feedstock oil	recovery, gradually ignite the pilot light, manually open the

				enters R102, poisoning the	main burner shut-off valve on site, increase the main
				cracking catalyst.	burner according to the actual situation, and gradually
				4. The hydrogen consumption	resume production.
				of the reaction is rapidly	
				reduced, and the system is	
				overpressured.	
4	UV13011	New	1. The valve status on DCS	1. System new hydrogen	1. Confirm on site that the shut-off valve at the outlet of
		hydrogen	turns red, SIS displays	interruption.	the new hydrogen compressor is closed and the new
		compressor	interlock and keeps	2. The system pressure drops	hydrogen compressor is out of service.
		outlet	alarming.	quickly.	2. Quickly reduce temperature and reduce feed. Increase
		shut-off	2. The outlet flow of the	3. The safety valve at all levels	the amount of circulation oil to maintain
		valve	new hydrogen	of the outlet of the new	reaction-fractionation large circulation.
			compressor is returned to	hydrogen machine will jump	3. Manually open the shut-off valve at the outlet of the
			zero.	off.	new hydrogen compressor.
			3. D111 pressure reaches		4. Start the new hydrogen compressor, and increase back
			2.8MPa, the pressure		pressure and temperature to resume production.
			control valve is fully		5. Adjust fractionation parameters according to reaction
			opened.		load.
5	UV12510	High	1. The valve status on DCS	1. Circulating hydrogen	1. Confirm on site that the outlet shut-off valve is closed,
		pressure	turns red, SIS displays	hydrogen sulfide continues to	the pump is interlocked shutdown, and close the pump
		lean amine	interlock and keeps	rise.	outlet hand valve and electric valve; contact the instrument
		pump	alarming.		to quickly check the cause and repair it in time.
		outlet	2. The outlet flow of lean		2. Adjust C101 liquid level.
		shut-off	amine liquid is reset to		3. Fully open C101 bypass line, the shut-off valve has not
		valve	zero.		been opened for a long time, open the waste hydrogen to
			3. The delivery volume of		ensure the purity of the circulating hydrogen.

			D109 rich amine liquid		4. Start the backup pump and manually fully open the
			drops rapidly.		outlet shut-off valve to resume production
6	UV14313	Medium	1. The valve status on DCS	1. The low gas hydrogen sulfide	1. Confirm on-site that the outlet shut-off valve is closed,
		pressure	turns red, SIS displays	exceeds the index, causing	and close the hand valve and electric valve of the pump
		lean amine	interlock and keeps	abnormalities in the PSA unit.	outlet. Report the dispatch in time and contact the PSA
		liquid outlet	alarming.		unit.
		shut-off	2. The outlet flow of lean		2. Change the D107 low separation gas to flare, close the
		valve	amine liquid is reset to		offplot control valve and the hand valve in the boundary
			zero.		area.
					3. Manually open the outlet shut-off valve to restore the
					lean amine liquid, and change to PSA after passing the
					sample of the low gas separation gas.
7	UV14505	Water	1. The valve status on DCS	1. High pressure heat	1. Confirm on site that the outlet shut-off valve is closed,
		injection	turns red, SIS displays	exchanger, high and low	the pump is interlocked shutdown, and close the hand
		pump	interlock and keeps	pressure air-cooler ammonium	valve and electric valve at the outlet of the running pump.
		outlet	alarming.	salt crystallization	2. Manually close D106 interface, D107 interface control
		shut-off	2. The outlet flow of the	2. High pressure to low	valve.
		valve	water injection pump is	pressure leak accidents.	3. Start the backup pump and manually fully open the
			reset to zero.		outlet shut-off valve to resume production
					4. If it does not recover for a long time, follow the
					long-term water injection interruption treatment
8	UV12203	0.7Mpa/min	1. The status of the valve	1. Emergency shutdown of the	1. Confirm that the 0.7Mpa pressure relief is opened on
		pressure	on the DCS turns green;	unit.	site; quickly analyze the cause and try to maintain K101
		relief valve	2. System pressure		operation.
			decreases.		2. Press the 0.7Mpa pressure relief button at CCR;
					3. Emergency shutdown of the the unit;

					4. The system pressure is lower than 3.5Mpa, close the
					hand valve before 0.7Mpa/min pressure relief.
9	UV12204A	2.1Mpa/min	1. The valve status on the	1. Emergency shutdown of the	1. Confirm on site that the 2.1Mpa/min pressure relief is
	UV12204B	pressure	DCS turns green; 2. The	unit	open
		relief valve	system pressure drops		2. In the central control, press the 2.1Mpa pressure relief
					button
					3. Emergency shutdown of the unit.
					4. The system pressure is vented to slightly positive
					pressure
10	UV12204A	2.1Mpa/min	1. The valve status on the	1. Unit temperature excursion	1. Central control start 0.7Mpa pressure relief
	UV12204B	pressure	DCS is normal, but the	or unable to relief pressure	2. Open the D106 safety valve to relieve the pressure on
		relief valve	valve actually cannot		the auxiliary line, pay attention to the pressure relief speed
			open.		of the unit, and stop K101 when it reaches 2.1Mpa/min
					3. Emergency shutdown of the unit
11	UV20512	C201	1. The valve status on DCS	1. C201 top product is greatly	1. Reduce reaction feed and temperature
	UV20513	stripping	turns red, SIS displays	reduced	2. Manually reduce the reflux, increase the top temperature
		steam	interlock and keeps	2. Hydrogen sulfide enters the	of C201, and reduce the light component entering C204
			alarming.	fractionation tower and	3. Close the stripping steam control valve, fully open the
			2. Stripping steam flow	naphtha tower, the product is	shut-off valve on site, and gradually resume stripping
			reset to zero.	unqualified	4. Arrange personnel to go to C204 safety valve platform to
			3. D201 liquid level drops	3. C204 overpressure causes	prepare the safety valve to open the auxiliary line
			rapidly, C201 liquid level	EH201 interlock to shut down	5. The stripping steam cannot be used again for a short
			rises rapidly.	and shut-off valve to close	time, heavy naphtha and light naphtha are changed to the
					unqualified line, and D211 is changed to the auxiliary line.
12	UV20701	D201 outlet	1. The valve status on DCS	1. C201 flooding, C205 feed	1. Respond to emergency cooling and reducing volume,
		shut-off	turns red, SIS displays	interruption	reducing the amount of stripping steam

		valve	interlock and keeps	2. D201 tank full	2. Open the shut-off valve on site and start P201 and P202
			alarming	3. Dry gas entrained with liquid	to resume production
			2.P201, P202 stop pump		3. C205 single-tower circulation, fully open A201 fan,
			3. The liquid level of D201		control the pressure rise trend, pay attention to the liquid
			rises rapidly, and the top		situation of the C202 inlet separation tank and drain the
			pressure of C201 rises		liquid in time
			rapidly.		4. After opening the shut-off valve by hand to start P201
					and P202, the system resumes normal production
13	UV20501	P204 inlet	1. The valve status on DCS	1. Dry gas C3 exceeds index	1. Manually open the shut-off valve on site and start P204
		shut-off	turns red, SIS displays	2. C203 tower flooding	to resume production
		valve	interlock and keeps		2. Contact the dispatcher to change the dry gas to flare
			alarming		3. Stop C203 lean amine solution
			2. P204 stops the pump,		4. Stop P205, wait for P204 to start, then start P205 to
			and the outlet flow returns		gradually resume production
			to zero;		
14	UV21012	P206 outlet	1. The valve status on DCS	1. The hydrogen sulfide in dry	1. Contact the dispatcher and send dry gas to flare
		shut-off	turns red, SIS displays	gas exceeds the index	2. Open the shut-off valve manually on site to restore the
		valve	interlock and keeps		feed of lean amine liquid
			alarming		3. The dry gas analysis is qualified and change the dry gas
			2. The outlet flow of lean		back to to the unit.
			amine liquid is reset to		
			zero;		
15	UV21218	C204	1. The valve status on DCS	1. The C204 top product is too	1. Close the valve closest to the stripping tower wall (at the
	UV21217	stripping	turns red, SIS displays	low and the separation effect is	root).
		steam	interlock and keeps	poor	2. Open tEH201 outlet safety valve bypass valve, start
			alarming	2. The bottom component is	EH201, and increase the temperature to above 320°C.

			2. Stripping steam flow	too light, P210 is cavitated, and	3. Manually open the shut-off valve on site and start using
			reset to zero.	the recycle oil is too light, which	stripping steam slowly.
			3. Electric heater EH201	affects the reaction feed.	4. If the valve cannot be opened for a long time, increase
			interlock.		the top temperature of C204 to ensure sufficient top
					product.
16	UV21501	D203 outlet	1. The valve status on DCS	1. C204 tower flooding.	1. Open the shut-off valve manually on site and start P208
		shut-off	turns red, SIS displays	2. C207 feed interruption.	to resume production.
		valve	interlock and keeps	3. The direct supply of heavy	2. Reduce reaction temperature, reduce unit feed and
			alarming.	naphtha to reformer was	reduce reaction depth.
			2. P208 stops the pump,	interrupted, causing	3. C207 single tower circulation, reduce C204 stripping
			and the outlet flow returns	fluctuations in the reforming	steam, and change heavy naphtha to unqualified tank area.
			to zero;	unit, which in turn affected the	4. After P208 is activated by manually opening the shut-off
				fluctuations in the hydrogen	valve, resume normal production.
				system pipeline network.	
17	UV21201	P211 inlet	1. The valve status on DCS	1. Part of the light components	1. Open the shut-off valve manually on site and start P211
		shut-off	turns red, SIS displays	enter the recycle oil to the	to resume production.
		valve	interlock and keeps	reaction system.	2. Be aware of fluctuations raw material properties.
			alarming.		
			2. P211 stops the pump,		
			the outlet flow returns to		
			zero.		
18	UV22401	D208 outlet	1. The valve status on DCS	1. C207 tower flooding, and	1. Manually open the shut-off valve on site and start P215
		shut-off	turns red, SIS displays	overpressure.	to resume production.
		valve	interlock and keeps	2. Light naphtha product	2. Quickly reduce the heat source at the bottom of the
			alarming.	interrupted.	tower and change the heavy naphtha to the unqualified
			2. P215 stops.and the	3. Light naphtha is unqualified.	line.

			outlet flow returns to zero;		 3. If the valve can't be opened for a long time, decrease reaction temperature, reduce feed and decrease reaction depth. Establish reaction-fractionation large circulation. 4. After the shut-off valve is manually opened, resume according to the shut off.
					normal production.
19	UV22321	C207	1. The valve status on DCS	1. No separation at C207.	1. Reduce the reflux at the top of the tower, change heavy
	UV22320	heating	turns red, SIS displays		naphtha to the unqualified line, and manually open the
		steam	interlock and keeps		shut-off valve on site to resume production.
		shut-off	alarming.		2. If it can't be opened for a long time, reduce reaction
		valve	2. The heating steam flow		temperature, reduce feed and decrease reaction depth.
			is reset to zero.		Establish reaction-fractionation large circulation.
					3. After opening the shut-off valve, the system resumes
					normal production.

	Fault handling method of electromagnetic shut-off valve of the LPG Fractionation Unit								
When an accident occurs, contact the dispatcher, instrument, and department on-duty leader, send information and maintain communication, grasp									
the situation of the unit and respond in time, contact upstream feed units and downstream product units, and change the line.									
	Solenoid		Phonomonon after						
Serial	valve	description	abnormal	Main bazard	Disposal mathed				
number	position	description		Main hazaru	Disposal method				
	number		closing/opening						
1	UV10101	P101 inlet	1. The valve status on	1. Series I feed interruption.	1. Confirm on site that the shut-off valve is closed and the				
		shut-off	DCS turns red, SIS	2. D101 liquid level rises rapidly.	pump is interlocked to stop the pump.				
		valve	displays interlock and		2. Open the shut-off valve manually on site and start the				
			keeps alarming.		pump to resume feeding.				
			2. P101 stops and the		2. If it cannot be opened for a long time, establish single				

			outlet flow returns to		tower circulation for series I and III, Change feed to
			zero.		unqualified line and stop delivering products.
					3. After shut-off valve is opened, resume normal
					production.
2	UV10201	P102 and	1. The valve status on	1. C101 reflux interrupted.	1. Confirm on site that the shut-off valve is closed and the
		P103 inlet	DCS turns red, SIS	2. C102 feed interruption.	pump is interlocked to stop the pump.
		shut-off	displays interlock and		2. Manually open the shut-off valve on site and start the
		valve	keeps alarming.		pump to resume production.
			2. P102 and P103 stop,		3. If it cannot be opened for a long time, Cut off C101 feed,
			and the outlet flow		maintain temperature, pressure and liquid levels. Change
			returns to zero.		series I feed to unqualified line.
					4. C102, C301 single tower circulation
					5. Resume production after the shut-off valve is opened.
3	UV10102	C101	1. The valve status on	1. C101 liquid level rises rapidly.	1. Confirm that the shut-off valve is closed on site.
		bottom	DCS turns red, SIS	2. C301 feed is basically	2. Open the shut-off valve manually on site to resume
		shut-off	displays interlock and	interrupted.	production.
		valve	keeps alarming.		3. If it can't be opened for a long time, establish single
			2. C101 bottom outlet		tower circulation for series I and III, change feeds to
			flow is zero.		unqualified line and stop delivering products.
					4. Resume production after the shut-off valve is opened.
4	UV10401	P104 inlet	1. The valve status on	1. C102 tower flooding.	1. Confirm on site that the shut-off valve is closed and that
		shut-off	DCS turns red, SIS	2. The flow of C3 at the bottom	the pump is interlocked to stop. Reduce the heat source at
		valve	displays interlock and	of the tower fluctuates sharply.	the bottom of the tower, and try to ensure the normal
			keeps alarming.		pressure of C102.
			2. P104 stops, the outlet		2. Manually open the shut-off valve on site and start the
			flow returns to zero.		pump to resume production.

					3. If it cannot be opened for a long time, Establish C101
					single tower circulation, maintain temperatures, pressures
					and liquid levels of C102, then establish single tower
					circulation for series III. Change feeds to unqualified line
					and stop sending out product.
					4. Resume production after the shut-off valve is opened.
5	UV10301	C102	1. The valve status on	1. C102 liquid level rises rapidly.	1. Confirm that the shut-off valve is closed on site.
		bottom	DCS turns red, SIS	2. The flow of C3 at the bottom	2. Open the shut-off valve manually on site to resume
		shut-off	displays interlock and	of the tower fluctuates greatly.	production.
		valve	keeps alarming.	3. The quality of liquefied gas	3. If it can't be opened for a long time, establish series I and
			2. Return flow at the	products is unqualified.	Ill single tower circulation, change feeds to unqualified line
			bottom of C102 to zero.		and stop sending out products.
					4. Resume production until the shut-off valve is opened.
6	UV20101	P201 inlet	1. The valve status on	1. C201 feed interruption.	1. Confirm on site that the shut-off valve is closed and the
		shut-off	DCS turns red, SIS	2. D201 liquid level rises rapidly.	pump is interlocked to stop the pump.
		valve	displays interlock and		2. Open the shut-off valve manually on site and resume
			keeps alarming.		production after starting the pump.
			2. P201 outlet flow is		3. If it can't be opened for a long time, establish series II
			zero.		single tower circulation, change feeds to unqualified line
					and stop sending out products.
					4. Resume production after the shut-off valve is opened.
7	UV20102	C201	1. The valve status on	1. C201 liquid level rises rapidly.	1. Confirm that the shut-off valve is closed on site.
		bottom	DCS turns red, SIS		2. Open the shut-off valve manually on site to resume
		shut-off	displays interlock and		production.
		valve	keeps alarming.		3. If it can't be opened for a long time, establish series II
			2. C201 bottom flow is		single tower circulation, change feeds to unqualified line

			zero.		and stop sending out products.
					4. Resume production after the shut-off valve is opened.
8	UV20201	P202, P203	1. The valve status on	1. C201 reflux interrupted.	1. Confirm on site that the shut-off valve is closed and the
		outlet	DCS turns red, SIS	2. C202 feed interruption.	pump is interlocked to stop the pump.
		shut-off	displays interlock and		2. Manually open the shut-off valve on site and start the
		valve	keeps alarming.		pump to resume production.
			2. P202 and P203 stop,		3. If it cannot be opened for a long time, cut off C201 feed
			and the outlet flow		and maintain temperature, pressure and liquid levels.,
			returns to zero.		Change the feed to unqualified line and stop sending out
					products.
					4. C202, C203, C204 single tower circulation.
					5. Resume production after the shut-off valve is opened.
9	UV20401	C202	1. The valve status on	1. C202 liquid level rises rapidly.	1. Confirm that the shut-off valve is closed on site.
		bottom	DCS turns red, SIS	2. C203 feed is cut off and	2. Open the shut-off valve manually on site to resume
		shut-off	displays interlock and	refined propylene production is	production.
		valve	keeps alarming.	interrupted.	3. If it can't be opened for a long time, establish C201,
			2. The outlet flow at the		C203 and C204 single tower circulation, maintain C202
			bottom of C202 is reset		pressure, temperature and liquid levels. Change the feed to
			to zero;		unqualified line and stop sending out products.
					4. Resume production after the shut-off valve is opened.
10	UV20402	P204 inlet	1. The valve status on	1. C202tower flooding;	1. Confirm on-site that the shut-off valve is closed and the
		shut-off	DCS turns red, SIS	2. C3 flow at the bottom of the	pump is interlocked to stop;
		valve	displays interlock and	tower fluctuates sharply.	2. Quickly reduce the bottom heat source of C202, control
			keeps alarming.		the pressure of C202 within the index range, and open the
			2. P204 stops, the out.let		large E203 circulating water valve in time.
			flow returns to zero		3. Maintain C202 bottom to C203, increase C203 hot water

					heat source to ensure refined propylene is sent out as normal. 4. Open the shut-off valve manually on site and start the pump to resume production.
11	UV20501	C203 bottom shut-off valve	 The valve status on DCS turns red, SIS displays interlock and keeps alarming. C203 bottom outlet flow is zero. 	1. C203 liquid level rises rapidly.	 Confirm that the shut-off valve is closed on site. Open the shut-off valve manually on site to resume production. If it cannot be opened for a long time, establish series II single tower circulation, change feed to unqualified line and stop sending out products. Resume production after the shut-off valve is opened.
12	UV20502	C204 bottom shut-off valve	 The valve status on DCS turns red, SIS displays interlock and keeps alarming. P205 interlocks to stop, and the outlet flow returns to zero. 	 C204 liquid level rises rapidly. C204 tower flooding and overpressure. 	 Confirm that the shut-off valve is closed on site. Panel operation appropriately reduce the heat source at the bottom of C203, open the C204 top cold bypass control valve, increases the air-cooler fan, and if necessary, open the D204 top control valve to control the pressure; At the same time, manually open the shut-off valve on site and resume production. If it can't be opened for a long time, operate C203 at a reduced temperature. Directly change C203 bottom distillate passing through E207 to the unqualified LPG tank, stop sending out refined propylene and close UV20602. Resume production after the shut-off valve is opened.
13	UV20601	P206 inlet	1. The valve status on	1. C204 reflux interruption.	1. Confirm that the shut-off valve is closed on site.

		shut-off	DCS turns red, SIS	2. C204 tower flooding and	2. Panel operation appropriately reduce the heat source at
		valve	displays interlock and	overpressure.	the bottom of C203, open the C204 top cold bypass
			keeps alarming.		control valve, increases the air-cooler fan, and if necessary,
			2. P206 interlocks to stop,		open the D204 top control valve to control the pressure;
			and the outlet flow is		manually open the shut-off valve on site and resume
			reset to zero		production at the same time.
			3. Refined propylene		3. If it can't be opened for a long time, operate C203 at a
			delivery flow is reset to		reduced temperature. Directly change C203 bottom
			zero		distillate passing through E207 to the unqualified LPG tank,
					stop sending out refined propylene and close UV20602.
					4. Resume production after the shut-off valve is opened.
14	UV20602	Refined	1. The valve status on	-	1. Confirm that the shut-off valve is closed on site.
		propylene	DCS turns red, SIS		2. Open the shut-off valve manually on site to resume
		shut-off	displays interlock and		production
		valve	keeps alarming.		3. If it cannot be opened for a long time, fill D204 first, fill
			2. Return flow of refined		D206 through the gas-phase propylene line, increase flow
			propylene to zero;.		to C203 as much as possible to store in C203 and C204. If it
					can't be opened for a long time, operate C203 at a reduced
					temperature. Directly change C203 bottom distillate
					passing through E207 to the unqualified LPG tank.
					4. Resume production after the shut-off valve is opened.
15	UV30101	C301	1. The valve status on	1. C301 liquid level rises rapidly.	1. Confirm that the shut-off valve is closed on site.
		bottom	DCS turns red, SIS	2. Unqualified LPG products.	2. Open the shut-off valve manually on site to resume
		shut-off	displays interlock and		production.
		valve	keeps alarming.		3. If it cannot be opened for a long time,cut off series I and
			2. P301 interlocks to stop		III feed and establish series I and III single tower circulation.

			and the outlet flow		Stop sending out isobutane, change C201 bottom LPG to
			returns to zero.		unqualified line, change feeds to unqualified line and stop
					sending out products
					4. Resume production after the shut-off valve is opened.
16	UV30201	P302, P303	1. The valve status on	1. C301 tower flooding.	1. Confirm that the shut-off valve is closed on site.
		inlet	DCS turns red, SIS		2. Open the shut-off valve manually on site to resume
		shut-off	displays interlock and		production.
		valve	keeps alarming.		3. If it cannot be opened for a long time, establish Series I
			2. P302, P303 interlock to		single tower circulation, change isobutane to unqualified
			stop, and the outlet flow		line, change feed to unqualified line and stop sending out
			will return to zero.		products.
					4. Resume production after the shut-off valve is opened.
17	UV30202	P303 inlet	1. The valve status on	1.D301 liquid level rises rapidly.	1. Confirm that the shut-off valve is closed on site.
		shut-off	DCS turns red, SIS	2. Stop delivery of isobutane	2. Open the shut-off valve manually on site to resume
		valve	displays interlock and	products.	production.
			keeps alarming.		3. If it can't be opened for a long time, establish series I and
			2. P303 interlocks to stop		series III single tower circulation, change LPG to unqualified
			the pump, and the outlet		line, change feed to unqualified line and stop sending
			flow returns to zero.		products.
					4. Resume production after the shut-off valve is opened