

 HENGYI	Hengyi Industries Sdn Bhd 恒逸实业（文莱）有限公司											
	Process Interlock Record 工艺联锁台账											
	Record No. 文件编号				HYBN-T7-06-5028-2018-1						Page 1 of 16	
NO. 序号	Interlockin g level 联锁等级	Tag NO. 位号	Explain 说明	Unit 单位	Measurin g range 量程	Alarm Value 报警值		Number of interlocks 联锁值		Interlocking action 联锁动作	Remarks 备注	
						high 高	low 低	high 高	low 低			
1	First level 一级	5701PIAS00101A	Air cooling tower outlet pressure 空冷塔出口压力	MPa(g)	0-1.6	-	0.75	-	0.65	Trigger UZ00101 air separation unit jump 触发UZ00101空分单元跳车	Three take two 三取二	
2	First level 一级	5701PIAS00101B	Air cooling tower outlet pressure 空冷塔出口压力	MPa(g)	0-1.6	-	0.75	-	0.65			
3	First level 一级	5701PIAS00101C	Air cooling tower outlet pressure 空冷塔出口压力	MPa(g)	0-1.6	-	0.75	-	0.65			
5	First level 一级	5701LICAS00101	Air cooling tower level 空冷塔液位	%	0-100	72	40	80	-	Stop pre-cooling system 4 pumps 停预冷系统4台水泵		
6	Second level 二级	5701LICAS00104	Water cooling tower liquid level 水冷塔液位	%	0-100	72	40	-	24	Stop cryogenic water pump 停低温水泵		
7	First level 一级	5701PIS00201	1# adsorber outlet pressure 1#吸附器出口压力	MPa(g)	0-1.6	-	-	-	0.01	The pressure relief time is up, the pressure is higher than 0.01MPa, and the molecular sieve program is suspended. 泄压时间到，压力高于0.01MPa,分子筛程序暂停	Before regeneration 再生前	
8	First level 一级	5701PIS00203	2# adsorber outlet pressure 2#吸附器出口压力	MPa(g)	0-1.6	-	-	-	0.01	The pressure relief time is up, the pressure is higher than 0.01MPa, and the molecular sieve program is suspended. 泄压时间到，压力高于0.02MPa,分子筛程序暂停		
9	First level 一级	5701FICAS00201	Regenerative exhaust gas into the purification system flow 再生废气进纯化系统流量	Nm³/h	0-15000	-	9000	-	2000	Molecular sieve electric heater stops working 分子筛电加热器停止工作	During regeneration 再生时	
10	First level 一级	5701TIS00201	1# adsorber inlet temperature 1#吸附器入口温度	℃	-20-200	-	-	40	-	冷吹时间结束后，温度高于40℃，则分子筛程序暂停	After regeneration 再生后	
11	First level 一级	5701TIS00203	2# adsorber inlet temperature 2#吸附器入口温度	℃	-20-200	-	-	40	-	After the end of the cold blowing time, the temperature is higher than 40 ° C, the molecular sieve program is suspended. 冷吹时间结束后，温度高于40℃，则分子筛程序暂停		

	12	First level 一级	5701TIAS00205	1# electric heater outlet temperature 1#电加热器出口温度	℃	0-300	250	-	270	-	Electric heater A outlet temperature >250 °C alarm, >270 °C power failure heater 电加热器A出口温度>250℃报警，>270℃停电加热器	
	13	First level 一级	5701TIAS00206	2# electric heater outlet temperature 2#电加热器出口温度	℃	0-300	250	-	270	-	Electric heater A outlet temperature >250 °C alarm, >270 °C power failure heater 电加热器A出口温度>250℃报警，>271℃停电加热器	
	14	First level 一级	5701VXIAS00359A	Expander A expansion end X side shaft vibration 膨胀机A膨胀端X侧轴振动	μm	0-100	30	-	35	-	Expander A interlocking trip 膨胀机A联锁跳车	
	15	First level 一级	5701VXIAS00359B	Expander B expansion side X side shaft vibration 膨胀机B膨胀端X侧轴振动	μm	0-100	30	-	35	-	Expander B interlocking trip 膨胀机B联锁跳车	
	16	First level 一级	5701VYIAS00360A	Expanding machine A compressor side Y side shaft vibration 膨胀机A压缩机侧Y侧轴振动	μm	0-100	30	-	35	-	Expander A interlocking trip 膨胀机A联锁跳车	
	17	First level 一级	5701VYIAS00360B	Expanding machine B compressor side Y side shaft vibration 膨胀机A压缩机侧Y侧轴振动	μm	0-100	30	-	35	-	Expander B interlocking trip 膨胀机B联锁跳车	
	18	First level 一级	5701TIAS00351A	Expander A expansion side axial bearing temperature 膨胀机A膨胀侧轴向轴承温度	℃	0-200	95	-	100	-	Expander A interlocking trip 膨胀机A联锁跳车	
	19	First level 一级	5701TIAS00351B	Expander B expansion side axial bearing temperature 膨胀机B膨胀侧轴向轴承温度	℃	0-200	95	-	100	-	Expander B interlocking trip 膨胀机B联锁跳车	
	20	First level 一级	5701TIAS00352A	Expander A expansion side radial bearing temperature 膨胀机A膨胀侧径向轴承温度	℃	0-200	95	30	100	-	Expander A interlocking trip 膨胀机A联锁跳车	
	21	First level 一级	5701TIAS00352B	Expander B expansion side radial bearing temperature 膨胀机B膨胀侧径向轴承温度	℃	0-200	95	30	100	-	Expander B interlocking trip 膨胀机B联锁跳车	
	22	First level 一级	5701TIAS00353A	Expander A compression side radial bearing temperature 膨胀机A压缩侧径向轴承温度	℃	0-200	95	-	100	-	Expander A interlocking trip 膨胀机A联锁跳车	
	23	First level 一级	5701TIAS00353B	Expander B compression side radial bearing temperature 膨胀机B压缩侧径向轴承温度	℃	0-200	95	-	100	-	Expander B interlocking trip 膨胀机B联锁跳车	
	24	First level 一级	5701TIAS00354A	Expander B pressurization side axial bearing temperature 膨胀机B增压侧轴向轴承温度	℃	0-200	95	-	100	-	Expander A interlocking trip 膨胀机A联锁跳车	
	25	First level 一级	5701TIAS00354B	Expander A pressurization side axial bearing temperature 膨胀机A增压侧轴向轴承温度	℃	0-200	95	-	100	-	Expander B interlocking trip 膨胀机B联锁跳车	

	26	First level 一级	5701PIAS00355A	Expander A oil supply pressure 膨胀机A供油压力	Bar	0-20	-	7	-	6.5	Expander A interlocking trip 膨胀机A联锁跳车	
	27	First level 一级	5701PIAS00355B	Expander B oil supply pressure 膨胀机B供油压力	Bar	0-20	-	7	-	6.5	Expander B interlocking trip 膨胀机B联锁跳车	
	28	First level 一级	5701PDIAS00361A	Expander A expansion end seal air pressure difference 膨胀机A膨胀端密封气压差	Bar	0-5	-	0.75	-	0.5	Expander A interlocking trip 膨胀机A联锁跳车	
	29	First level 一级	5701PDIAS00361B	Expander B expansion end seal air pressure difference 膨胀机B膨胀端密封气压差	Bar	0-5	-	0.75	-	0.5	Expander B interlocking trip 膨胀机B联锁跳车	
	30	First level 一级	5701PDIAS00362A	Expander A pressurization end seal air pressure difference 膨胀机A增压端密封气压差	Bar	0-5	-	0.75	-	0.5	Expander A interlocking trip 膨胀机A联锁跳车	
	31	First level 一级	5701PDIAS00362B	Expander B pressurization end seal air pressure difference 膨胀机B增压端密封气压差	Bar	0-5	-	0.75	-	0.5	Expander B interlocking trip 膨胀机B联锁跳车	
	32	First level 一级	5701PDIAS00372A	Expander A booster inlet filter resistance 膨胀机A增压端入口过滤器阻力	MPa(g)	0-0.2	0.05	-	0.1	-	Expander A interlocking trip 膨胀机A联锁跳车	
	33	First level 一级	5701PDIAS00372B	Expander B booster inlet filter resistance 膨胀机B增压端入口过滤器阻力	MPa(g)	0-0.2	0.05	-	0.1	-	Expander B interlocking trip 膨胀机B联锁跳车	
	34	First level 一级	5701SIAS00359A	Expander B speed 膨胀机B转速	RPM	0-20000	14300	-	14700	3000	Expander A interlocking trip 膨胀机A联锁跳车	
	35	First level 一级	5701SIAS00359B	Expander A speed 膨胀机A转速	RPM	0-20000	14300	-	14700	3000	Expander B interlocking trip 膨胀机B联锁跳车	
	36	Second level 二级	5701PDIAS00621	NP001A inlet and outlet pressure difference NP001A进出口压差	MPa(g)	0-1	-	0.55	-	0.45	NP001A interlocking jumper NP001A联锁跳车	
	37	Second level 二级	5701PDIAS00622	NP001B inlet and outlet pressure difference NP002B进出口压差	MPa(g)	0-1	-	0.55	-	0.45	NP001B interlocking jumper NP002B联锁跳车	
	38	First level 一级	5701LIA00601	Atmospheric liquid nitrogen storage tank level 常压液氮储罐液位	%	0-100	77.3	4	81.3	3.3	The liquid level is low and the pump cannot be started. The interlocking stops NP001A/B and NP003A/B 液位低无法启泵，联锁停NP001A/B和NP003A/B	
	39	First level 一级	5701TIAS00604A	Nitrogen to low pressure pipe network temperature 氮气去低压管网温度	℃	-20-50	-	5	-	0	Backup system external supply valve lost power interlock 后备系统外供阀失电联锁关闭	

	40	First level 一级	5701TIAS00604B	Nitrogen to low pressure pipe network temperature 氮气去低压管网温度	℃	-20-50	-	5	-	0	Backup system external supply valve lost power interlock 后备系统外供阀失电联锁关闭	Three take two 三取二
	41	First level 一级	5701TIAS00604C	Nitrogen to low pressure pipe network temperature 氮气去低压管网温度	℃	-20-50	-	5	-	0	Backup system external supply valve lost power interlock 后备系统外供阀失电联锁关闭	
	42	Second level 二级	5701PICAS00701	Vacuum tank A tank top pressure 真空罐A罐顶压力	MPa(g)	0-4	2.5	2.3	-	2.2	USV00731B is powered on USV00731B得电打开	SV002A self-priming valve SV002A自增压阀
	43	Second level 二级	5701PICAS00702	Vacuum tank B tank top pressure 真空罐B罐顶压力	MPa(g)	0-4	2.5	2.3	-	2.2	USV00731A is powered on USV00732A得电打开	SV002A self-priming valve SV003A自增压阀
	44	First level 一级	5701TIAS00703A	Medium pressure nitrogen to pipe network temperature 中压氮气去管网温度	℃	20-50	-	5	-	0	Backup system external supply valve lost power interlock 后备系统外供阀失电联锁关闭	Three take two 三取二
	45	First level 一级	5701TIAS00703B	Medium pressure nitrogen to pipe network temperature 中压氮气去管网温度	℃	20-50	-	5	-	0	Backup system external supply valve lost power interlock 后备系统外供阀失电联锁关闭	
	46	First level 一级	5701TIAS00703C	Medium pressure nitrogen to pipe network temperature 中压氮气去管网温度	℃	20-50	-	5	-	0	Backup system external supply valve lost power interlock 后备系统外供阀失电联锁关闭	
	47	First level 一级	5701PIS01002	Instrument air accident tank pressure 仪表空气事故罐压力	MPa(g)		-	2	3.7	-	Automatically stop the instrument air booster when the pressure reaches 3.7MPa 当压力达到3.7MPa时，自动停仪表空气增压机	
	48	First level 一级	5701PI07113	Air compressor A oil supply pressure 1 空压机A供油压力1	BarG	0-5	-	1.63	-	1.03	Air compressor A interlocking trip 空压机A联锁跳车	
	49	First level 一级	5701PI07114	Air compressor A oil supply pressure 2 空压机A供油压力2	BarG	0-5	-	1.63	-	1.03	Air compressor A interlocking trip 空压机A联锁跳车	
	50	First level 一级	5701PI07115	Air compressor A oil supply pressure 3 空压机A供油压力3	BarG	0-5	-	1.63	-	1.03	Air compressor A interlocking trip 空压机A联锁跳车	
	51	Second level 二级	5701PDI07116	Air compressor A oil filter pressure difference 空压机A油过滤器压差	Bar	0-3.5	1.75	-	-	-	Air compressor A interlocking trip 空压机A联锁跳车	
	52	First level 一级	5701VI07111	Air compressor A first-stage impeller vibration 空压机A一级叶轮振动	μm	0-127	37	-	53	-	Air compressor A interlocking trip 空压机A联锁跳车	
	53	First level 一级	5701VI07112	Air compressor A second-stage impeller vibration 空压机A二级叶轮振动	μm	0-127	37	-	53	-	Air compressor A interlocking trip 空压机A联锁跳车	

	54	First level 一级	5701VI07113	Air compressor A third-stage impeller vibration 空压机A二级叶轮振动	μm	0-127	32	-	45	-	Air compressor A interlocking trip 空压机A联锁跳车	
	55	Second level 二级	5701II07111	Air compressor A motor current 空压机A电机电流	Amps	0-300	149.5	-	-	-	Air compressor A interlocking trip 空压机A联锁跳车	
	56	First level 一级	5701TI07111	Air compressor A oil supply temperature 空压机A供油温度	℃	0-200	60	-	74	-	Air compressor A interlocking trip 空压机A联锁跳车	
	57	Second level 二级	5701TI07112	Air compressor A tank temperature 空压机A油箱温度	℃	0-200	-	16	-	-	Air compressor A interlocking trip 空压机A联锁跳车	
	58	First level 一级	5701TI07113	Air compressor A third stage intake air temperature 空压机A第三级进气温度	℃	0-200	54	-	60	-	Air compressor A interlocking trip 空压机A联锁跳车	
	59	First level 一级	5701TI07114	Air compressor A motor coil R temperature 空压机A电机线圈R温度	℃	0-200	150	-	155	-	Air compressor A interlocking trip 空压机A联锁跳车	
	60	First level 一级	5701TI07115	Air compressor A motor coil S temperature 空压机A电机线圈S温度	℃	0-200	150	-	155	-	Air compressor A interlocking trip 空压机A联锁跳车	
	61	First level 一级	5701TI07116	Air compressor A motor coil T temperature 空压机A电机线圈T温度	℃	0-200	150	-	155	-	Air compressor A interlocking trip 空压机A联锁跳车	
	62	First level 一级	5701TI07117	Air compressor A motor bearing NDE temperature 空压机A电机轴承NDE温度	℃	0-200	85	-	90	-	Air compressor A interlocking trip 空压机A联锁跳车	
	63	First level 一级	5701TI07118	Air compressor A motor bearing DE temperature 空压机A电机轴承DE温度	℃	0-200	85	-	90	-	Air compressor A interlocking trip 空压机A联锁跳车	
	64	First level 一级	5701PI07123	Air compressor B oil supply pressure 1 空压机B供油压力1	BarG	0-5	-	1.63	-	1.03	Air compressor B interlocking trip 空压机B联锁跳车	
	65	First level 一级	5701PI07124	Air compressor B oil supply pressure 2 空压机B供油压力2	BarG	0-5	-	1.63	-	1.03	Air compressor B interlocking trip 空压机B联锁跳车	
	66	First level 一级	5701PI07125	Air compressor B oil supply pressure 3 空压机B供油压力3	BarG	0-5	-	1.63	-	1.03	Air compressor B interlocking trip 空压机B联锁跳车	
	67	Second level 二级	5701PDI07126	Air compressor B oil filter pressure difference 空压机B油过滤器压差	Bar	0-3.5	1.75	-	-	-	Air compressor B interlocking trip 空压机B联锁跳车	

	68	First level 一级	5701VI07121	Air compressor B first stage impeller vibration 空压机B一级叶轮振动	μm	0-127	37	-	53	-	Air compressor B interlocking trip 空压机B联锁跳车	
	69	First level 一级	5701VI07122	Air compressor B second stage impeller vibration 空压机B一级叶轮振动	μm	0-127	37	-	53	-	Air compressor B interlocking trip 空压机B联锁跳车	
	70	First level 一级	5701VI07123	Air compressor B third stage impeller vibration 空压机B一级叶轮振动	μm	0-127	32	-	45	-	Air compressor B interlocking trip 空压机B联锁跳车	
	71	First level 一级	5701TI07121	Air compressor B oil supply temperature 空压机B供油温度	℃	0-200	60	-	74	-	Air compressor B interlocking trip 空压机B联锁跳车	
	72	First level 一级	5701TI07123	Air compressor B third stage intake air temperature 空压机B第三级进气温度	℃	0-200	54	-	60	-	Air compressor B interlocking trip 空压机B联锁跳车	
	73	First level 一级	5701TI07124	Air compressor B motor coil R temperature 空压机B电机线圈R温度	℃	0-200	150	-	155	-	Air compressor B interlocking trip 空压机B联锁跳车	
	74	First level 一级	5701TI07125	Air compressor B motor coil S temperature 空压机B电机线圈S温度	℃	0-200	150	-	155	-	Air compressor B interlocking trip 空压机B联锁跳车	
	75	First level 一级	5701TI07126	Air compressor B motor coil T temperature 空压机B电机线圈T温度	℃	0-200	150	-	155	-	Air compressor B interlocking trip 空压机B联锁跳车	
	76	First level 一级	5701TI07127	Air compressor B motor bearing DE temperature 空压机B电机轴承DE温度	℃	0-200	85	-	90	-	Air compressor B interlocking trip 空压机B联锁跳车	
	77	First level 一级	5701TI07128	Air compressor B motor bearing NDE temperature 空压机B电机轴承NDE温度	℃	0-200	85	-	90	-	Air compressor B interlocking trip 空压机B联锁跳车	
	78	First level 一级	5701PI07133	Air compressor C oil supply pressure 1 空压机C供油压力1	BarG	0-5	-	1.63	-	1.03	Air compressor C interlocking trip 空压机C联锁跳车	
	79	First level 一级	5701PI07134	Air compressor C oil supply pressure 2 空压机C供油压力2	BarG	0-5	-	1.63	-	1.03	Air compressor C interlocking trip 空压机C联锁跳车	
	80	First level 一级	5701PI07135	Air compressor C oil supply pressure 3 空压机C供油压力3	BarG	0-5	-	1.63	-	1.03	Air compressor C interlocking trip 空压机C联锁跳车	
	81	Second level 二级	5701PDI07136	Air compressor C oil filter pressure difference 空压机C油过滤器压差	Bar	0-3.5	1.75	-	-	-	Air compressor C interlocking trip 空压机C联锁跳车	

5701	82	First level 一级	5701VI07131	Air compressor C first stage impeller vibration 空压机C一级叶轮振动	μm	0-127	37	-	53	-	Air compressor C interlocking trip 空压机C联锁跳车	
	83	First level 一级	5701VI07132	Air compressor C second stage impeller vibration 空压机C二级叶轮振动	μm	0-127	37	-	53	-	Air compressor C interlocking trip 空压机C联锁跳车	
	84	First level 一级	5701VI07133	Air compressor C third stage impeller vibration 空压机C三级叶轮振动	μm	0-127	32	-	45	-	Air compressor C interlocking trip 空压机C联锁跳车	
	85	Second level 二级	5701II07131	Air compressor C motor current 空压机C电机电流	Amps	0-300	149.5	-	-	-	Air compressor C interlocking trip 空压机C联锁跳车	
	86	First level 一级	5701TI07131	Air compressor C oil supply temperature 空压机C供油温度	℃	0-200	60	-	74	-	Air compressor C interlocking trip 空压机C联锁跳车	
	87	Second level 二级	5701TI07132	Air compressor C tank temperature 空压机C油箱温度	℃	0-200	-	16	-	-	Air compressor C interlocking trip 空压机C联锁跳车	
	88	First level 一级	5701TI07133	Air compressor C third stage intake air temperature 空压机C第三级进气温度	℃	0-200	54	-	60	-	Air compressor C interlocking trip 空压机C联锁跳车	
	89	First level 一级	5701TI07134	Air compressor C motor coil R temperature 空压机C电机线圈R温度	℃	0-200	150	-	155	-	Air compressor C interlocking trip 空压机C联锁跳车	
	90	First level 一级	5701TI07135	Air compressor C motor coil S temperature 空压机C电机线圈S温度	℃	0-200	150	-	155	-	Air compressor C interlocking trip 空压机C联锁跳车	
	91	First level 一级	5701TI07136	Air compressor C motor coil T temperature 空压机C电机线圈T温度	℃	0-200	150	-	155	-	Air compressor C interlocking trip 空压机C联锁跳车	
	92	First level 一级	5701TI07137	Air compressor C motor bearing NDE temperature 空压机C电机轴承NDE温度	℃	0-200	85	-	90	-	Air compressor C interlocking trip 空压机C联锁跳车	
	93	First level 一级	5701TI07138	Air compressor C motor bearing DE temperature 空压机C电机轴承DE温度	℃	0-200	85	-	90	-	Air compressor C interlocking trip 空压机C联锁跳车	
	94	First level 一级	5701PI07143	Air compressor D oil supply pressure 1 空压机D供油压力1	BarG	0-5	-	1.63	-	1.03	Air compressor D interlocking trip 空压机D联锁跳车	
	95	First level 一级	5701PI07144	Air compressor D oil supply pressure 2 空压机D供油压力2	BarG	0-5	-	1.63	-	1.03	Air compressor D interlocking trip 空压机D联锁跳车	

	96	First level 一级	5701PI07145	Air compressor D oil supply pressure 3 空压机D供油压力3	BarG	0-5	-	1.63	-	1.03	Air compressor D interlocking trip 空压机D联锁跳车	
	97	Second level 二级	5701PDI07146	Air compressor D oil filter pressure difference 空压机D油过滤器压差	Bar	0-3.5	1.75	-	-	-	Air compressor D interlocking trip 空压机D联锁跳车	
	98	First level 一级	5701VI07141	Air compressor D first stage impeller vibration 空压机D一级叶轮振动	μm	0-127	37	-	53	-	Air compressor D interlocking trip 空压机D联锁跳车	
	99	First level 一级	5701VI07142	Air compressor D second stage impeller vibration 空压机DE二级级叶轮振动	μm	0-127	37	-	53	-	Air compressor D interlocking trip 空压机D联锁跳车	
	100	First level 一级	5701VI07143	Air compressor D third stage impeller vibration 空压机D三级叶轮振动	μm	0-127	32	-	45	-	Air compressor D interlocking trip 空压机D联锁跳车	
	101	Second level 二级	5701II07141	Air compressor D motor current 空压机D电机电流	Amps	0-300	149.5	-	-	-	Air compressor D interlocking trip 空压机D联锁跳车	
	102	First level 一级	5701TI07141	Air compressor D oil supply temperature 空压机D供油温度	℃	0-200	60	-	74	-	Air compressor D interlocking trip 空压机D联锁跳车	
	103	Second level 二级	5701TI07142	Air compressor D tank temperature 空压机D油箱温度	℃	0-200	-	16	-	-	Air compressor D interlocking trip 空压机D联锁跳车	
	104	First level 一级	5701TI07143	Air compressor D third stage intake air temperature 空压机D第三级进气温度	℃	0-200	54	-	60	-	Air compressor D interlocking trip 空压机D联锁跳车	
	105	First level 一级	5701TI07144	Air compressor D motor coil R temperature 空压机D电机线圈R温度	℃	0-200	150	-	155	-	Air compressor D interlocking trip 空压机D联锁跳车	
	106	First level 一级	5701TI07145	Air compressor D motor coil S temperature 空压机D电机线圈S温度	℃	0-200	150	-	155	-	Air compressor D interlocking trip 空压机D联锁跳车	
	107	First level 一级	5701TI07146	Air compressor D motor coil T temperature 空压机D电机线圈T温度	℃	0-200	150	-	155	-	Air compressor D interlocking trip 空压机D联锁跳车	
	108	First level 一级	5701TI07147	Air compressor D motor bearing DE temperature 空压机D电机轴承DE温度	℃	0-200	85	-	90	-	Air compressor D interlocking trip 空压机D联锁跳车	
	109	First level 一级	5701TI07148	Air compressor D motor bearing NDE temperature 空压机D电机轴承NDE温度	℃	0-200	85	-	90	-	Air compressor D interlocking trip 空压机D联锁跳车	

	110	First level 一级	5701PI07153	Air compressor E oil supply pressure 1 空压机E供油压力1	BarG	0-5	-	1.63	-	1.03	Air compressor E interlocking trip 空压机E联锁跳车	
	111	First level 一级	5701PI07154	Air compressor E oil supply pressure 2 空压机E供油压力2	BarG	0-5	-	1.63	-	1.03	Air compressor E interlocking trip 空压机E联锁跳车	
	112	First level 一级	5701PI07155	Air compressor E oil supply pressure 3 空压机E供油压力3	BarG	0-5	-	1.63	-	1.03	Air compressor E interlocking trip 空压机E联锁跳车	
	113	Second level 二级	5701PDI07156	Air compressor E oil filter pressure difference 空压机E油过滤器压差	Bar	0-3.5	1.75	-	-	-	Air compressor E interlocking trip 空压机E联锁跳车	
	114	First level 一级	5701VI07151	Air compressor E first stage impeller vibration 空压机E一级叶轮振动	μm	0-127	37	-	53	-	Air compressor E interlocking trip 空压机E联锁跳车	
	115	First level 一级	5701VI07152	Air compressor E second stage impeller vibration 空压机E二级叶轮振动	μm	0-127	37	-	53	-	Air compressor E interlocking trip 空压机E联锁跳车	
	116	First level 一级	5701VI07153	Air compressor E third stage impeller vibration 空压机E三级叶轮振动	μm	0-127	32	-	45	-	Air compressor E interlocking trip 空压机E联锁跳车	
	117	Second level 二级	5701II07151	Air compressor E motor current 空压机E电机电流	Amps	0-300	149.5	-	-	-	Air compressor E interlocking trip 空压机E联锁跳车	
	118	First level 一级	5701TI07151	Air compressor E oil supply temperature 空压机E供油温度	℃	0-200	60	-	74	-	Air compressor E interlocking trip 空压机E联锁跳车	
	119	Second level 二级	5701TI07152	Air compressor E tank temperature 空压机E油箱温度	℃	0-200	-	16	-	-	Air compressor E interlocking trip 空压机E联锁跳车	
	120	First level 一级	5701TI07153	Air compressor E third stage intake air temperature 空压机E第三级进气温度	℃	0-200	54	-	60	-	Air compressor E interlocking trip 空压机E联锁跳车	
	121	First level 一级	5701TI07154	Air compressor E motor coil R temperature 空压机E电机线圈R温度	℃	0-200	150	-	155	-	Air compressor E interlocking trip 空压机E联锁跳车	
	122	First level 一级	5701TI07155	Air compressor E motor coil S temperature 空压机E电机线圈S温度	℃	0-200	150	-	155	-	Air compressor E interlocking trip 空压机E联锁跳车	
	123	First level 一级	5701TI07156	Air compressor E motor coil T temperature 空压机E电机线圈T温度	℃	0-200	150	-	155	-	Air compressor E interlocking trip 空压机E联锁跳车	

	124	First level 一级	5701TI07157	Air compressor E motor bearing DE temperature 空压机E电机轴承DE温度	℃	0-200	85	-	90	-	Air compressor E interlocking trip 空压机E联锁跳车	
	125	First level 一级	5701TI07158	Air compressor E motor bearing NDE temperature 空压机E电机轴承NDE温度	℃	0-200	85	-	90	-	Air compressor E interlocking trip 空压机E联锁跳车	
	126	First level 一级	5701PI07163	Air compressor F supply pressure 1 空压机F供油压力1	BarG	0-5	-	1.63	-	1.03	Air compressor F interlocking trip 空压机F联锁跳车	
	127	First level 一级	5701PI07164	Air compressor F supply pressure 2 空压机F供油压力2	BarG	0-5	-	1.63	-	1.03	Air compressor F interlocking trip 空压机F联锁跳车	
	128	First level 一级	5701PI07165	Air compressor F supply pressure 3 空压机F供油压力3	BarG	0-5	-	1.63	-	1.03	Air compressor F interlocking trip 空压机F联锁跳车	
	129	First level 一级	5701VI07161	Air compressor F first stage impeller vibration 空压机F一级叶轮振动	μm	0-127	37	-	53	-	Air compressor F interlocking trip 空压机F联锁跳车	
	130	First level 一级	5701VI07162	Air compressor F second stage impeller vibration 空压机F二级叶轮振动	μm	0-127	37	-	53	-	Air compressor F interlocking trip 空压机F联锁跳车	
	131	First level 一级	5701VI07163	Air compressor F third stage impeller vibration 空压机F三级叶轮振动	μm	0-127	32	-	45	-	Air compressor F interlocking trip 空压机F联锁跳车	
	132	First level 一级	5701TI07161	Air compressor F oil supply temperature 空压机F供油温度	℃	0-200	60	-	74	-	Air compressor F interlocking trip 空压机F联锁跳车	
	133	First level 一级	5701TI07163	Air compressor F third stage intake air temperature 空压机F第三级进气温度	℃	0-200	54	-	60	-	Air compressor F interlocking trip 空压机F联锁跳车	
	134	First level 一级	5701TI07164	Air compressor F motor coil R temperature 空压机F电机线圈R温度	℃	0-200	150	-	155	-	Air compressor F interlocking trip 空压机F联锁跳车	
	135	First level 一级	5701TI07165	Air compressor F motor coil S temperature 空压机F电机线圈S温度	℃	0-200	150	-	155	-	Air compressor F interlocking trip 空压机F联锁跳车	
	136	First level 一级	5701TI07166	Air compressor F motor coil T temperature 空压机F电机线圈T温度	℃	0-200	150	-	155	-	Air compressor F interlocking trip 空压机F联锁跳车	
	137	First level 一级	5701TI07167	Air compressor F motor bearing DE temperature 空压机F电机轴承DE温度	℃	0-200	85	-	90	-	Air compressor F interlocking trip 空压机F联锁跳车	

	138	First level 一级	5701TI07168	Air compressor F motor bearing NDE temperature 空压机F电机轴承NDE温度	℃	0-200	85	-	90	-	Air compressor F interlocking trip 空压机F联锁跳车	
	139	First level 一级	5701PIAS07216	Instrument air booster oil supply pressure 仪表气增压机供油压力	MPa(g)	0-1	0.5	0.25	-	0.2	Instrument air booster interlocking trip 仪表气增压机联锁跳车	
	140	First level 一级	5701PIAS07217	Instrument air booster oil supply pressure 仪表气增压机供油压力	MPa(g)	0-1	0.5	0.25	-	0.2	Instrument air booster interlocking trip 仪表气增压机联锁跳车	
	141	First level 一级	5701PIAS07218	Instrument air booster oil supply pressure 仪表气增压机供油压力	MPa(g)	0-1	0.5	0.25	-	0.2	Instrument air booster interlocking trip 仪表气增压机联锁跳车	
	142	First level 一级	5701PIAS07219	Instrument air booster oil supply pressure 仪表气增压机供油压力	MPa(g)	0-1	0.5	0.25	-	0.2	Instrument air booster interlocking trip 仪表气增压机联锁跳车	
	143	First level 一级	5701TIAS07204	Instrument air booster level 1 exhaust temperature (after compression) 仪表气增压机一级排气温度（压缩后）	℃	0-200	133	-	138	-	Instrument air booster interlocking trip 仪表气增压机联锁跳车	
	144	First level 一级	5701TIAS07208	Instrument air booster level 2 exhaust temperature (after compression) 仪表气增压机一级排气温度（压缩后）	℃	0-200	131	-	136	-	Instrument air booster interlocking trip 仪表气增压机联锁跳车	
	145	First level 一级	5701PIAS07315A	Nitrogen booster A oil supply pressure 氮气增压机A供油压力	MPa(g)	0-1	0.5	0.25	-	0.2	Nitrogen press A interlocking trip 氮压机A联锁跳车	
	146	First level 一级	5701PIAS07315B	Nitrogen booster A oil supply pressure 氮气增压机A供油压力	MPa(g)	0-1	0.5	0.25	-	0.2	Nitrogen press B interlocking trip 氮压机B联锁跳车	
	147	First level 一级	5701PIAS07316A	Nitrogen booster A oil supply pressure 氮气增压机A供油压力	MPa(g)	0-1	-	-	-	0.15	Nitrogen press A interlocking trip 氮压机A联锁跳车	
	148	First level 一级	5701PIAS07316B	Nitrogen booster B oil supply pressure 氮气增压机B供油压力	MPa(g)	0-1	-	-	-	0.15	Nitrogen press B interlocking trip 氮压机B联锁跳车	
	149	First level 一级	5701PIAS07317A	Nitrogen booster A oil supply pressure 氮气增压机A供油压力	MPa(g)	0-1	-	-	-	0.15	Nitrogen press A interlocking trip 氮压机A联锁跳车	
	150	First level 一级	5701PIAS07317B	Nitrogen booster B supply pressure 氮气增压机B供油压力	MPa(g)	0-1	-	-	-	0.15	Nitrogen press B interlocking trip 氮压机B联锁跳车	
	151	First level 一级	5701PIAS07318A	Nitrogen booster A oil supply pressure 氮气增压机A供油压力	MPa(g)	0-1	-	-	-	0.15	Nitrogen press A interlocking trip 氮压机A联锁跳车	

	152	First level 一级	5701PIAS07318B	Nitrogen booster B supply pressure 氮气增压机B供油压力	MPa(g)	0-1	-	-	-	0.15	Nitrogen press B interlocking trip 氮压机B联锁跳车	
	153	First level 一级	5701TIAS07304A	Nitrogen booster A exhaust temperature (after compression) 氮气增压机A排气温度（压缩后）	℃	0-200	82	-	92	-	Nitrogen press A interlocking trip 氮压机A联锁跳车	
	154	First level 一级	5701TIAS07304B	Nitrogen booster B exhaust temperature (after compression) 氮气增压机B排气温度（压缩后）	℃	0-200	82	-	92	-	Nitrogen press B interlocking trip 氮压机B联锁跳车	
	155	First level 一级	5701TI07305A	Nitrogen booster A fuselage bearing temperature 氮气增压机A机身轴承温度	℃	0-200	70	-	75	-	Nitrogen press A interlocking trip 氮压机A联锁跳车	
	156	First level 一级	5701TI07305B	Nitrogen booster B fuselage bearing temperature 氮气增压机B机身轴承温度	℃	0-200	70	-	75	-	Nitrogen press B interlocking trip 氮压机B联锁跳车	
	157	First level 一级	5701TI07306A	Nitrogen booster A fuselage bearing temperature 氮气增压机A机身轴承温度	℃	0-200	70	-	75	-	Nitrogen press A interlocking trip 氮压机A联锁跳车	
	158	Second level 二级	5701TI07306B	Nitrogen booster B fuselage bearing temperature 氮气增压机B机身轴承温度	℃	0-200	70	-	75	-	Nitrogen press B interlocking trip 氮压机B联锁跳车	
	159	First level 一级	5701TI07405	Dryer A electric heater outlet temperature 干燥器A电加热器出口温度	℃	0-400	200	-	220	-	Electric heater stop 电加热器停	
	160	First level 一级	5701TI07412	Dryer B electric heater outlet temperature 干燥器B电加热器出口温度	℃	0-400	200	-	220	-	Electric heater stop 电加热器停	
	161	First level 一级	5701TI07419	Dryer C electric heater outlet temperature 干燥器C电加热器出口温度	℃	0-400	200	-	220	-	Electric heater stop 电加热器停	
	162	First level 一级	5701PIS07401	Dryer A intake manifold pressure 干燥器A进气总管压力	MPa(g)	0-1.6	-	-	-	0.4	Dryer inlet valve V17 interlock closed 干燥器入口阀V17联锁关闭	
	163	First level 一级	5701PIS07402	Dryer B intake manifold pressure 干燥器B进气总管压力	MPa(g)	0-1.6	-	-	-	0.4	Dryer inlet valve V17 interlock closed 干燥器入口阀V17联锁关闭	
	164	First level 一级	5701PIS07403	Dryer C intake manifold pressure 干燥器C进气总管压力	MPa(g)	0-1.6	-	-	-	0.4	Dryer inlet valve V17 interlock closed 干燥器入口阀V17联锁关闭	
	165	Second level 二级	5111TIAS20211	5111-FAN-201A motor stator U-phase temperature 5111-FAN-201A电机定子U相温度	℃	0-200	150		155		Fan interlock TRIP 风机联锁停车	

	166	Second level 二级	5111TIAS20212	5111-FAN-201A motor stator V-phase temperature 5111-FAN-202A电机定子V相温度	℃	0-200	150		155		Fan interlock TRIP 风机联锁停车	
	167	Second level 二级	5111TIAS20213	5111-FAN-201A motor stator W-phase temperature 5111-FAN-203A电机定子W相温度	℃	0-200	150		155		Fan interlock TRIP 风机联锁停车	
	168	Second level 二级	5111TIAS20214	5111-FAN-201A motor bearing temperature 1 5111-FAN-201A电机轴承温度1	℃	0-100	90		95		Fan interlock TRIP 风机联锁停车	
	169	Second level 二级	5111TIAS20215	5111-FAN-201A motor bearing temperature 2 5111-FAN-201A电机轴承温度2	℃	0-100	90		95		Fan interlock TRIP 风机联锁停车	
	170	Second level 二级	5111TIAS20216	5111-FAN-201B motor stator U-phase temperature 5111-FAN-201B电机定子U相温度	℃	0-200	150		155		Fan interlock TRIP 风机联锁停车	
	171	Second level 二级	5111TIAS20217	5111-FAN-201B motor stator V-phase temperature 5111-FAN-202B电机定子V相温度	℃	0-200	150		155		Fan interlock TRIP 风机联锁停车	
	172	Second level 二级	5111TIAS20218	5111-FAN-201B motor stator W-phase temperature 5111-FAN-203B电机定子W相温度	℃	0-200	150		155		Fan interlock TRIP 风机联锁停车	
	173	Second level 二级	5111TIAS20219	5111-FAN-201B motor bearing temperature 1 5111-FAN-201B电机轴承温度1	℃	0-100	90		95		Fan interlock TRIP 风机联锁停车	
	174	Second level 二级	5111TIAS20220	5111-FAN-201B motor bearing temperature 2 5111-FAN-201B电机轴承温度2	℃	0-100	90		95		Fan interlock TRIP 风机联锁停车	
	175	First level 一级	5111TIAS20221	5111-P201A motor A phase coil temperature 1 5111-P201A电机A相线圈温度1	℃	0-200	140		145		Circulating water pump interlock trip 循环水泵联锁停车	
	176	First level 一级	5111TIAS20222	5111-P201A motor B phase coil temperature 2 5111-P201A电机B相线圈温度2	℃	0-200	140		145		Circulating water pump interlock trip 循环水泵联锁停车	
	177	First level 一级	5111TIAS20223	5111-P201A motor C phase coil temperature 3 5111-P201A电机C相线圈温度3	℃	0-200	140		145		Circulating water pump interlock trip 循环水泵联锁停车	
	178	First level 一级	5111TIAS20224	5111-P201A motor shaft end bearing temperature 5111-P201A电机轴伸端轴承温度	℃	0-100	90		95		Circulating water pump interlock trip 循环水泵联锁停车	
	179	First level 一级	5111TIAS20225	5111-P201A motor non-shaft extension bearing temperature 5111-P201A电机非轴伸端轴承温度	℃	0-100	90		95		Circulating water pump interlock trip 循环水泵联锁停车	

5111-2	180	First level 一级	5111TIAS20226	5111-P201A drive end bearing bearing temperature 5111-P201A驱动端轴承轴承温度	℃	0-100	75		80		Circulating water pump interlock trip 循环水泵联锁停车	
	181	First level 一级	5111TIAS20227	5111-P201A non-drive end bearing temperature 5111-P201A非驱动端轴承轴承温度	℃	0-100	75		80		Circulating water pump interlock trip 循环水泵联锁停车	
	182	First level 一级	5111TIAS20231	5111-P201B motor A phase coil temperature 1 5111-P201B电机A相线圈温度1	℃	0-200	140		145		Circulating water pump interlock trip 循环水泵联锁停车	
	183	First level 一级	5111TIAS20232	5111-P201B motor B phase coil temperature 1 5111-P201B电机B相线圈温度1	℃	0-200	140		145		Circulating water pump interlock trip 循环水泵联锁停车	
	184	First level 一级	5111TIAS20233	5111-P201B motor C phase coil temperature 1 5111-P201B电机C相线圈温度1	℃	0-200	140		145		Circulating water pump interlock trip 循环水泵联锁停车	
	185	First level 一级	5111TIAS20234	5111-P201B motor shaft end bearing temperature 5111-P201B电机轴伸端轴承温度	℃	0-100	90		95		Circulating water pump interlock trip 循环水泵联锁停车	
	186	First level 一级	5111TIAS20235	5111-P201B motor non-shaft extension bearing temperature 5111-P201B电机非轴伸端轴承温度	℃	0-100	90		95		Circulating water pump interlock trip 循环水泵联锁停车	
	187	First level 一级	5111TIAS20236	5111-P201B drive end bearing bearing temperature 5111-P201B驱动端轴承轴承温度	℃	0-100	75		80		Circulating water pump interlock trip 循环水泵联锁停车	
	188	First level 一级	5111TIAS20237	5111-P201B non-drive end bearing bearing temperature 5111-P201B非驱动端轴承轴承温度	℃	0-100	75		80		Circulating water pump interlock trip 循环水泵联锁停车	
	189	First level 一级	5111TIAS20241	5111-P201C motor A phase coil temperature 1 5111-P201C电机A相线圈温度1	℃	0-200	140		145		Circulating water pump interlock trip 循环水泵联锁停车	
	190	First level 一级	5111TIAS20242	5111-P201C motor B phase coil temperature 1 5111-P201C电机B相线圈温度1	℃	0-200	140		145		Circulating water pump interlock trip 循环水泵联锁停车	
	191	First level 一级	5111TIAS20243	5111-P201C motor C phase coil temperature 1 5111-P201C电机C相线圈温度1	℃	0-200	140		145		Circulating water pump interlock trip 循环水泵联锁停车	
	192	First level 一级	5111TIAS20244	5111-P201C motor shaft end bearing temperature 5111-P201C电机轴伸端轴承温度	℃	0-100	90		95		Circulating water pump interlock trip 循环水泵联锁停车	
	193	First level 一级	5111TIAS20245	5111-P201C motor non-shaft end bearing temperature 5111-P201C电机非轴伸端轴承温度	℃	0-100	90		95		Circulating water pump interlock trip 循环水泵联锁停车	

	194	First level 一级	5111TIAS20246	5111-P201C drive end bearing bearing temperature 5111-P201C驱动端轴承轴承温度	℃	0-100	75		80		Circulating water pump interlock trip 循环水泵联锁停车	
	195	First level 一级	5111TIAS20247	5111-P201C non-drive end bearing bearing temperature 5111-P201C非驱动端轴承轴承温度	℃	0-100	75		80		Circulating water pump interlock trip 循环水泵联锁停车	
	196	First level 一级	5111TIAS20248	5111-P202 drive end bearing bearing temperature 5111-P202驱动端轴承轴承温度	℃	0-100	75		80		Circulating water pump interlock trip 循环水泵联锁停车	
	197	First level 一级	5111TIAS20249	5111-P202 non-drive end bearing bearing temperature 5111-P202非驱动端轴承轴承温度	℃	0-100	75		80		Circulating water pump interlock trip 循环水泵联锁停车	
	198	Second level 二级	5111LIAS20401	BA-203 level BA-203液位	%	0-100	58.8	11	61.2	9.4	When the liquid level is 61.2%, two salty sewage pumps are started at the same time; 液位>61.2%时，两台含盐污水泵同时启动； When the liquid level is <9.4%, the two salty sewage pumps are stopped at the same time. "	
	199	Second level 二级	5111LIAS20201	BA-202 level BA-202液位	%	0-100	90.74	83.33	92.59	81.48	When the liquid level is 92.59%, the water supply valve is closed; 液位>92.59%时，补水阀关闭； When the liquid level is <81.48%, the water supply valve is opened. "	
	200	Second level 二级	5602TI00111	P001A motor stator U phase temperature measurement 1 P001A电机定子U相测温1	℃	0-200	140		145		Refrigerated water pump interlocking trip 冷冻水泵联锁跳车	
	201	Second level 二级	5602TI00112	P001A motor stator V phase temperature measurement 1 P001A电机定子V相测温2	℃	0-200	140		145		Refrigerated water pump interlocking trip 冷冻水泵联锁跳车	
	202	Second level 二级	5602TI00113	P001A motor stator W phase temperature measurement 1 P001A电机定子W相测温3	℃	0-200	140		145		Refrigerated water pump interlocking trip 冷冻水泵联锁跳车	
	203	Second level 二级	5602TI00114	P001A motor drive end temperature measurement P001A电机驱动端测温	℃	0-200	90		95		Refrigerated water pump interlocking trip 冷冻水泵联锁跳车	
	204	Second level 二级	5602TI00115	P001A motor non-drive end temperature measurement P001A电机非驱动端测温	℃	0-200	90		95		Refrigerated water pump interlocking trip 冷冻水泵联锁跳车	
	205	Second level 二级	5602TI00116	P001B motor stator U phase temperature measurement 1 P001B电机定子U相测温1	℃	0-200	140		145		Refrigerated water pump interlocking trip 冷冻水泵联锁跳车	
	206	Second level 二级	5602TI00117	P001B motor stator V phase temperature measurement 1 P001B电机定子V相测温1	℃	0-200	140		145		Refrigerated water pump interlocking trip 冷冻水泵联锁跳车	
	207	Second level 二级	5602TI00118	P001B motor stator W phase temperature measurement 1 P001B电机定子W相测温1	℃	0-200	140		145		Refrigerated water pump interlocking trip 冷冻水泵联锁跳车	

5602	208	Second level 二级	5602TI00119	P001B motor drive end temperature measurement P001B电机驱动端测温	℃	0-200	90		95		Refrigerated water pump interlocking trip 冷冻水泵联锁跳车	
	209	Second level 二级	5602TI00120	P001B motor non-drive end temperature measurement P001B电机非驱动端测温	℃	0-200	90		95		Refrigerated water pump interlocking trip 冷冻水泵联锁跳车	
	210	Second level 二级	5602TI00121	P001C motor stator U phase temperature measurement 1 P001C电机定子U相测温1	℃	0-200	140		145		Refrigerated water pump interlocking trip 冷冻水泵联锁跳车	
	211	Second level 二级	5602TI00122	P001C motor stator V phase temperature measurement 1 P001C电机定子V相测温1	℃	0-200	140		145		Refrigerated water pump interlocking trip 冷冻水泵联锁跳车	
	212	Second level 二级	5602TI00123	P001C motor stator W phase temperature measurement 1 P001C电机定子W相测温1	℃	0-200	140		145		Refrigerated water pump interlocking trip 冷冻水泵联锁跳车	
	213	Second level 二级	5602TI00124	P001C motor drive end temperature measurement P001C电机驱动端测温	℃	0-200	90		95		Refrigerated water pump interlocking trip 冷冻水泵联锁跳车	
	214	Second level 二级	5602TI00125	P001C motor non-drive end temperature measurement P001C电机非驱动端测温	℃	0-200	90		95		Refrigerated water pump interlocking trip 冷冻水泵联锁跳车	
	215	Second level 二级	5602TI00126	P001D motor stator U phase temperature measurement 1 P001D电机定子U相测温1	℃	0-200	140		145		Refrigerated water pump interlocking trip 冷冻水泵联锁跳车	
	216	Second level 二级	5602TI00127	P001D motor stator V phase temperature measurement 1 P001D电机定子V相测温1	℃	0-200	140		145		Refrigerated water pump interlocking trip 冷冻水泵联锁跳车	
	217	Second level 二级	5602TI00128	P001D motor stator W phase temperature measurement 1 P001D电机定子W相测温1	℃	0-200	140		145		Refrigerated water pump interlocking trip 冷冻水泵联锁跳车	
	218	Second level 二级	5602TI00129	P001D motor drive end temperature measurement P001D电机驱动端测温	℃	0-200	90		95		Refrigerated water pump interlocking trip 冷冻水泵联锁跳车	
	219	Second level 二级	5602TI00130	P001D motor non-drive end temperature measurement P001D电机非驱动端测温	℃	0-200	90		95		Refrigerated water pump interlocking trip 冷冻水泵联锁跳车	