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| logo小 | **Hengyi Industries Sdn Bhd 恒逸实业（文莱）有限公司** | | | | | | | |
| **Emergency Drill Record**  **应急演练记录** | | | | | | | |
| Record No. | | HYBN-T6-08-1016- -2018 | | | | Page 3 of 3 | |
| 使用部门  Department | | 公用工程  Utilities | | | 日期  Date | 2022 年 10 月 5日 | | |
| 演练地点  Location | | 空分空压中控/现场  Central Control Room/Site | | | 时间  Time | 15时 38分 | | |
| 演练内容  Content | | 空分空压氮气中断应急演练  Air separation air compressor nitrogen interruption emergency drill | | | | | | |
| 参加人员  Participants | | 孟新 陈聊 姬生莘 牛志超 | | | | | | |
| 观摩人员  Observers | | 温建成、张云波、邓文涛 | | | | | | |
| 演练过程记录：  15:38分，中控陈聊发现DCS显示0.6MPa氮气管网压力及流量下降，同时空分氮气放空阀FIQ00402缓慢开大；立即使用对讲机告知现场班长孟新，并安排内副操牛志超使用中压液氮汽化后供应低压氮气管网；  15:38分，班长孟新收到中控汇报后，立即启动空分外供氮气中断应急预案，安排中控一人负责汇报调度，另一人负责0.6MPa、0.85MPa、2.5MPa氮气管网压力的稳定（同时缓慢加载低压液氮泵外供）；安排姬生莘第一时间至低压后备汽化器前排气，保证低压后备正常外供氮气；班长孟新赶往现场检查及查找原因；  15:40分，副班长陈聊将2.5MPa氮气补充0.6MPa氮气阀门调至手动，并开至50%、30%，将中压水浴式汽化器汽化器液氮阀门开至40%、中压空温式汽化器设至50%；内副操牛志超通过对讲机告知现场，低压后备系统已正常供应氮气，中压后备缓慢退出供应，氮气管网压力保持稳定；  15:42分，外主操姬生莘汇报，检查现场后备系统正常供应氮气且未发现有氮气泄漏；  15:44分，孟新现场检查至空分氮气送出阀HIC00403时发现阀门处于全关状态；姬生莘至二层平台FIQ00402阀门处检查确认放空阀开度；  15:45分，孟新现场打开空分氮气送出阀HIC00403旁通供气，要求中控做好氮气管网及后备系统工况调整；  15:46分，关闭HIC00403前后截止阀，联系仪控人员至现场检查处理故障阀门；  15:49分，HIC00403阀门故障处理完毕，联系中控调试正常后阀门手动开至42%；  15:50分，打开HIC00403前后截止阀，缓慢关闭HIC00403旁通；  15:51分，班长孟新通知中控退出后备系统，改空分供应氮气；  15:52分，班长孟新安排内操汇报调度及部门领导；班长宣布演练结束。  Record of the exercise process:  At 15:38, the central control Chen Liao found that the DCS showed that the pressure and flow of the 0.6MPa nitrogen pipe network dropped, and the air separation nitrogen vent valve FIQ00402 was slowly opened; immediately used the walkie-talkie to inform the on-site squad leader Meng Xin, and arranged for the deputy operator Niu Zhichao to use it. After the pressure liquid nitrogen is vaporized, the low pressure nitrogen pipe network is supplied;  At 15:38, after receiving the report from the central control, the squad leader Meng Xin immediately started the emergency plan for the interruption of nitrogen supply from the air separation, and arranged one person from the central control to be responsible for reporting and scheduling, and another person responsible for the pressure of the 0.6MPa, 0.85MPa, 2.5MPa nitrogen pipe network. Stable (while slowly loading the low-pressure liquid nitrogen pump for external supply); arrange Ji Shengxin to exhaust in front of the low-pressure backup vaporizer as soon as possible to ensure the normal supply of nitrogen from the low-pressure backup; monitor Meng Xin rushed to the site to check and find out the reason;  At 15:40, the deputy squad leader Chen Liao adjusted the 2.5MPa nitrogen supplementary 0.6MPa nitrogen valve to manual, and opened it to 50% and 30%, and opened the liquid nitrogen valve of the medium pressure water bath vaporizer vaporizer to 40%, and the medium pressure air temperature. Niu Zhichao, the deputy operator, informed the scene through the walkie-talkie that the low-pressure backup system had been supplying nitrogen normally, the medium-pressure backup was slowly withdrawing from the supply, and the pressure of the nitrogen pipe network remained stable;  At 15:42, the field operator Ji Shengxin reported that the on-site backup system was supplying nitrogen normally and no nitrogen leakage was found;  At 15:44, Mengxin inspected the air separation nitrogen delivery valve HIC00403 on site and found that the valve was fully closed; Ji Shengxin went to the second floor platform FIQ00402 valve to check and confirm the opening of the vent valve;  At 15:45, Mengxin opened the air separation nitrogen delivery valve HIC00403 to bypass the gas supply on site, requiring the central control to adjust the working conditions of the nitrogen pipe network and backup system;  At 15:46, close the front and rear stop valves of HIC00403, and contact the instrument and control personnel to check and deal with the faulty valve on site;  At 15:49, the HIC00403 valve fault was processed, contact the central control and the valve was manually opened to 42% after the debugging was normal;  At 15:50, open the front and rear stop valves of HIC00403, and slowly close the bypass of HIC00403;  At 15:51, the squad leader Meng Xin informed Central Control to withdraw from the backup system and change the air separation to supply nitrogen;  At 15:52, the squad leader Meng Xin arranged for the internal exercise to report to the scheduling and department leaders; the squad leader announced the end of the drill.  /Users/dengwentao/Desktop/WechatIMG421.jpegWechatIMG421  现场确认阀门故障后，中控汇报调度及部门领导  After the valve failure is confirmed on site, the central control reports to the dispatch and department leaders  中控发现系统氮气外供压力、流量异常，及时汇报班长  The central control found that the nitrogen supply pressure and flow rate of the system were abnormal and reported to the squad leader in time      现场外操模拟打开低压液氮汽化器前阀门进行排气  The field operation simulates opening the front valve of the low-pressure liquid nitrogen vaporizer for exhaust  现场外操模拟打开中压液氮罐出口外供氮气  The on-site operation simulates opening the outlet of the MP liquid nitrogen tank to supply nitrogen      现场关闭问题阀门前后截止阀并联系仪控处理  Close the front and rear stop valves of the problem valve on site and contact the instrument control for processing  现场检查发现问题阀门.  On-site inspection found faulty valves | | | | | | | | |
| 演练效果评价：  班组演练按照“氮气中断后先用后备系统补充管网然后查找问题，处理问题后投用”的思路进行；演练过程中班组人员分工明确，班员能够按照分工要求完成操作并及时反馈操作信息；班组成员相互提醒、配合，但班组演练中也存在部分问题，希望后续演练中予以整改。  Evaluation of the exercise effect:  The team drill is carried out according to the idea of "after the nitrogen is interrupted, first use the backup system to supplement the pipeline network, then find the problem, and then put it into use after solving the problem"; during the drill, the team members have a clear division of tasks, and the team members can complete the operation according to the requirements of the task division and timely feedback the operation information; The team members reminded and cooperated with each other, but there were also some problems in the team drills. I hope that they will be rectified in the follow-up drills.  签字： 年 月 日 | | | | | | | | |
| 存在的问题 Existing problems | | | | 整改人  Revise Personnel | | | | 整改期限  Date |
| 班组演练过程中较紧张，需加强班组演练频次  The team is relatively nervous during the drill, and the frequency of team drills needs to be strengthened | | | | 孟新 | | | | 2022.10.10 |
| 现场检查后未及时反馈至中控  No timely feedback to central control after on-site inspection | | | | 孟新 | | | | 2022.10.10 |
| 演习过程时间太短，模拟真实度不够  The exercise process is too short, and the simulation is not realistic enough | | | | 孟新 | | | | 2022.10.10 |
| 后续跟踪落实 Follow-up implementation | | | | | | | | |
| 整改措施落实：Implementation of corrective measures: | | | | 验证人  Verify Personnel | | | | 日期  Date |
| 加强班组演练频次，下月副班再次演练  Strengthen the frequency of team drills, and the sub-class will drill again next month | | | | 温建成、张云波、邓文涛 | | | | 2022.10.10 |