

Report of Communication on Progress 进展报告



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- 十、反腐败Anti-Corruption

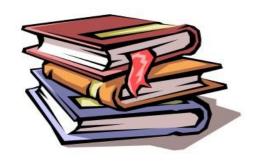




Top management demonstrate commitments and continued support:

- Management review管理评审
- Safety meeting安全会议
- Various Plant OHS inspection 多方面OHS 检查
- JHA review作业危害分析
- Leads procedures update 引导程序更新
- Leads emergency drills引导应急演练
- Push safety hazards to be corrected推进隐患整改

- 2020年11月-









持续支持申明- Statement of continued support

Health and Safety Declaration 健康安全宣言

SNF CHINA puts Health and Safety at the top of its list of obectives in the workplace.

爱森中国将健康安全放在工作场所目标的首位

WE ARE ALL COMMITTED 我们的承诺

Our company, SNF CHINA operates in accordance with the following points, ensuring that our business activities take place under the best possible health and safety conditions

爱寿公司承诺将实施以下方针以南尔所有运动均在保证职业规度安全的工作环境下进行:

Compliance with all applicable laws, regulations and other requirements relating to OHS.满足所有适用的与职业健康安全有关法律法规及其他要求。

Take laws and other requirements as system inputs. This process would be done through the opportunity and risk identification (unique document) procedure for analysis and evaluation, in order to realize the effective management 将在原本具在现代的内容,通过风险和迅速扩充影响。如果在保险器。

Involvement and responsible behaviour of every employee to realize worker participation and consultation. 关于每个人责任的承诺和行动,以实现全员参与和协商。

Safety is not just one priority among many, it is much more Safety is everyone's duty at all times this is why we will attempt to control behaviour with specifically fixed objectives. 完全是是有其他政策的两个子内自己。它有是是实验证是,它关于任何人在任何

Permanent evaluation of professional risks持续地进行职业风险评估

Proximity Management and follow up追踪和管控

Follow-ups and safety controls should be performed daily on-site by it management levels from the production engineer to team ervisor. Furthermore, the numerous audits and meetings are the time for everyone to participate and give input on safety

REV: 02

Bank or



Statement of continued support 持续支持声明

Dec. 2018

To our stakeholders: 發本公司利益相关者:

I am pleased to confirm that SNF (China)Flocculant Co., Ltd reaffirms its support of the Ten Principles of the United Nations Global Compact in the areas of Human Rights, Labour, Environment and Anti-Corruption.

我很高兴地确认爱森(中国) 絮凝剂有限公司重申支持《联合国全球契约》在人权、劳工、环境和反腐败领域的十项原则。

In this annual communication on Progress, we describe our actions to continually improve the integration of the Global Compact and its principles into our business strategy, culture and daily operations. We also commit to share this information with our stakeholders using our primary channels of communication.

在年度进展报告中。我们描述了我们为不断更好地在我们的商业战略、 文化和日常运营中融入《全球契约》及其原则而采取的行动。我们也承 诺通过我们的主要沟通渠道与我们的利益相关者分享这个信息。

Bruno Michel
General Manager of SNF China

SUP NO: OG-0030C ISSUE: 01 F

SNF FLOERGER

ISO 14001 环境方针

INF's mission is to develop, manufacture and sale the products and service for water treatment, enhanced oil recovery, paper and mining industries. The nature of business has generated numerous actions to improve environment. Therefore, as a key player in this industry, SNF ensure the environment continuous improvement for its product, operation and service towards this environment toolicy.

爱森敦力于水处理、油田、边纸和采矿领域的产品的研发。生产和销售活动, 病负着研媒选者的使命。作为行业的领先者、受森将遵循以下环境方针,实现 联络的转换方面。

- Comply with existing local legislation and environmental regulations.

 遵守提有的法律法規模定及要求。
- Advocate actions to prevent any environmental degradation during the whole process, and have end treatment before discharging. 預防污染、这形神纹。
- Minimize the environmental impact of our activities, to reduce our energy and source consumption. 減少難級活动对环境的影响。降低能調和簽書的清耗。
- Reduce the waste emission by driving the recycled waste application, and by controlling the influence of the hazards.

 推动废物回收利用和有害物质控制,减少废物持效。
- Kaep improving environment system and environment performance, and contribute for the global environment protection. 持续改进环境体系和模效。为全球的环境保护作出贡献。
- Motivate employees as well as working partners to act in an environment responsible way. 海边员工及相关方参与环境活动。
- Benefit all the group's entities from worldwide feedback and communication.
 集团公司会球范围内环境信息交流与共享。
- n order to reach these goals, SNF has implemented an Environmental transgement System under ISO 14001 standard. And our commitment is to fill the current and future obligation and expectations as a modern

ial company. 沒遊遊略,豐春在 ISO14001 标准指导下,实施了环境管理体系,并 作为一个现代化工业企业,受奋将义不容辞地持续承担当前或样



CONTROLLE





持续改进 Continuous Improvement

- ► 年度安全/质量/环境管 理评审
- Yearly safety/Quality/Environm ent audit
- ▶ 年度内部审核
- Yearly internal audit
- ▶ 月度安全检查
- Monthly safety checking
- ➤ 关于化学品注册、评估 、许可和限制法案(REACH),责任关怀,环 境等ISO
- Chemicals registration, evaluation, permitting (REACH), responsible care











❖ 培训: 重视和发展每个人的技能
Training: Value and develop everyone's skill

- 平均每年培训38865h, 其中
- 29342h为安全培训
- Average training hour 38865H/Y, 29342H for safety training

总培训小时数 Total Training Hours





❖ 培训: 重视和发展每个人的技能 Training: Value and develop everyone's skill

安全培训小时数 Safety Training Hours







❖ 社会政策: 留住员工,发展素质公司 Social policy: retain employees and develop quality

company



- 专业知识/经验
- Specialized knowledge/experience
- 丰富知识
- enrich knowledge
- 培训累积
- Accumulation of training
- 员工福利welfare
- 公司归属感
- sense of belonging
- 12个内部晋升
- 12 internal promotion
- 持续的工资增长
- Continual salary increasing
- 工龄奖金
- Seniority bonus
- 男女员工性别比例 64:36
- Gender balance man to woman, 64:36



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- 建立工会,建立膳食委员会,提高员工满意度
- Labor union, food committee, improve the satisfaction of employee
- 资助困难员工和额外的医疗保险
- Help employee with financial difficulties and extra medical insurance
- 每年举办篮球比赛Yearly Basketball game
- 每年年会 End-Year Party









社会责任 Social ability

- 2014年 40万元黄桥老区建设
- 400,000RMB help huangqiao construction
- 2016年56万元贫困村扶贫
- 560,000RMB help poor village 2016
- 2017年慈善总会20万元
- 200,000RMB to charity federation 2017
- 2019 年扶贫义购公益行动-陕西旬邑县
- Public Welfare and Poverty Alleviation Action 2019- Shanxi Xunyi
- 2020年捐赠60万元抗疫,口罩给学校,持续的扶贫义购
- 600,000RMB for epidemic prevention, masks to school, continues poverty alleviation





爱森(中国)絮凝剂有限公司:

感谢您为<u>肺炎疫情防控捐赠人民币陆拾万元</u>整,我们将根据您的捐赠意向用于<u>泰兴经济开发区</u><u>疫情防控物资采购工作</u>。对此崇高之举,谨表示诚挚的敬意!

特颁此证, 谨致谢忱!

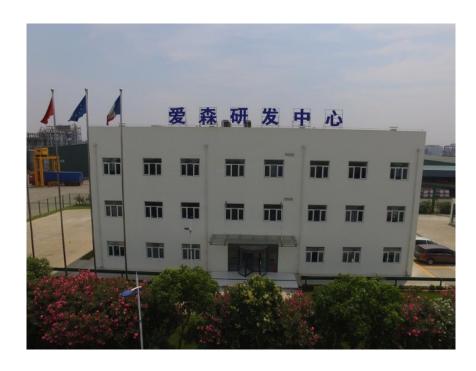






高新企业High-Tech

- Investment 10MRMB to build R&D Center in 2017 and start to use in 2018/05.
- ▶ 2017年投资1000多万元建立地区总部研发中心,2018年投入使用。
- > There are 3 floors in R&D Center. Each floor area is 600m2.
- ▶ 研发中心共三层,每层600平方米
- We have scientific R&D director, R&D center head and 21 full time R&D staff.
- ▶ 我们有研发总监,研发中心负责人和21名专职研发人员





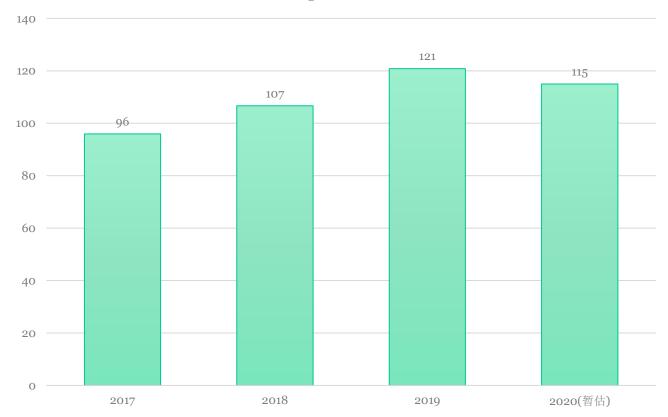


高新企业High-Tech

现有研发人员148人,23个专利证书

148research staff, 23patents

R&D Expense 研发费用





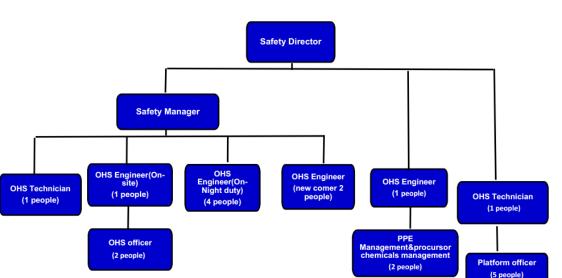


职业卫生/安全Occupational health/Safety- strong team强大团队

□ OHS personnel at work site 现场的HS 人员

- Around 917 employees in SNF Taixing site
- 全厂有917名员工
- 24 people working in Health Safety department

- 健康安全团队24人



	2019	2020
Total	850	917
OHS	13	24



职业卫生安全OHS - SNF 安全的可靠性Safety reliability

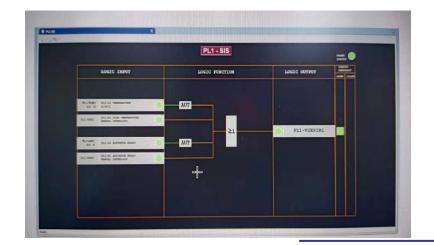
所有新建,改扩建生产线均会进行工艺安全可靠性论证,并在详细设计阶段进行HAZOP分析(危险与可操作性分析)和LOPA(保护层分析),根据LOPA报告选择适合的SIS系统,有效进行工艺安全管理。

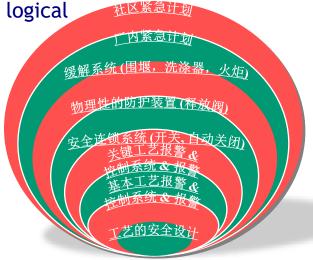
2020年对多胺SIS系统进行升级改造,现场显示逻辑联锁图

 All new and expanded production lines will be demonstrated for process safety reliability, and HAZOP analysis (hazard and operability analysis) and LOPA (protection layer analysis) will be carried out in the detailed design stage, then choose suitable SIS system to effectively manage process safety.

In 2020, the polyamine SIS system was upgraded, and the logical

interlocking diagram was displayed on site









职业卫生安全OHS-Smart safety management system智能化安全管理系统

In 2020, invest more than 2MRMB to build and run "5 in 1" a smart safety management system, this system involves:2020年, 投资超过200万元,实施并运行五位一体智能化安全管理系统,包括

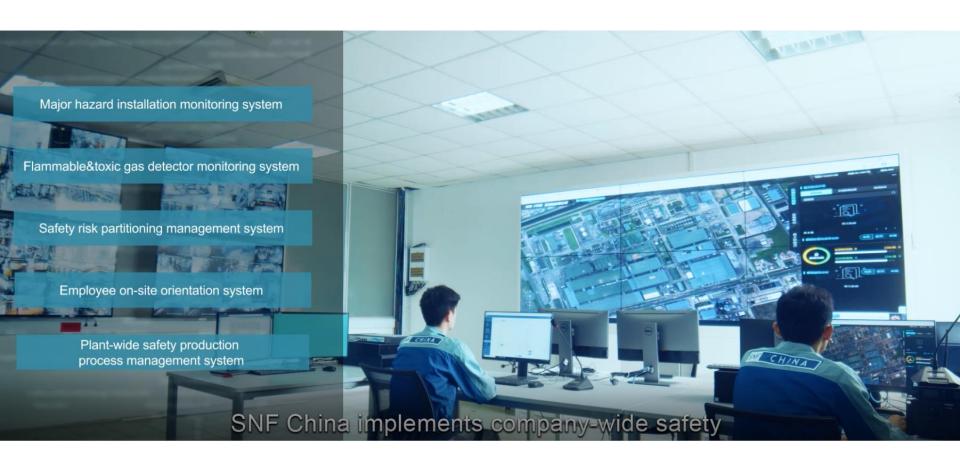
- ▶ Detailed GPS of all posts 全员定位
- ▶ Video signal of major hazard source重大危险源监控
- ➤ Inflammable and toxic gas detector气体探测
- ➤ Safety production process management安全生产全流程工艺管理
- ➤ Safety risk partition安全风险分区
- ▶ Face recognition entrance进入厂区的人脸识别

	Number
Positioning card	877
Beacon	1418
Inflammable and toxic gas detector	96
Video signal	31





职业卫生安全OHS- Smart safety management system智能化安全







职业卫生安全OHS-Smart safety management system智能化安全管理系统-- Detailed GPS of all posts全员定位

> Real-time display of personnel location is realized

实现人员位置实时显示

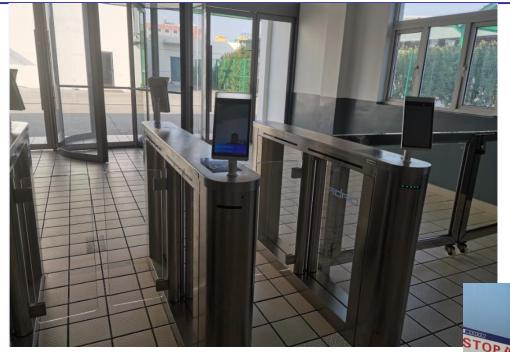






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职业卫生安全OHS-Smart safety management system智能化安全管理系统-- Face recognition+ personnel ID card entrance进入厂区的人脸识别和人员识别卡

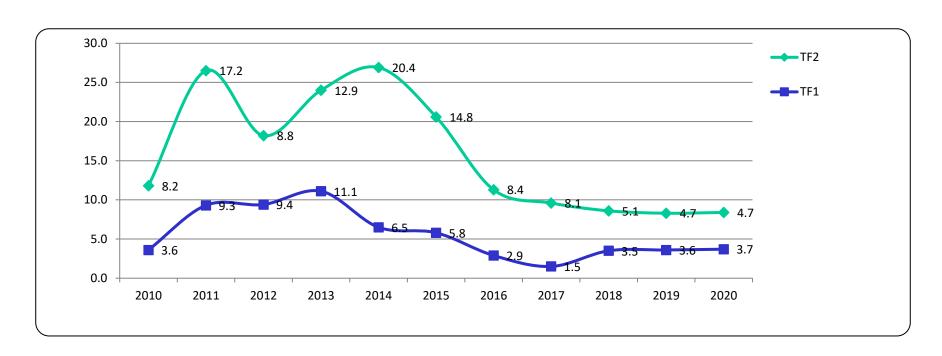




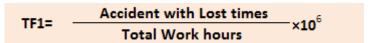




职业卫生安全OHS-Historical data of safety performance安全成绩的历史数据



NOTE:







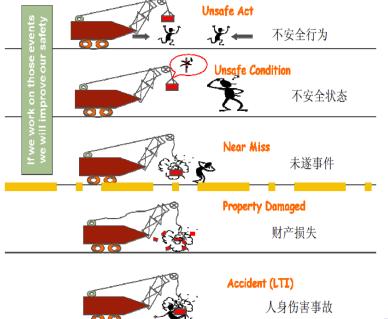


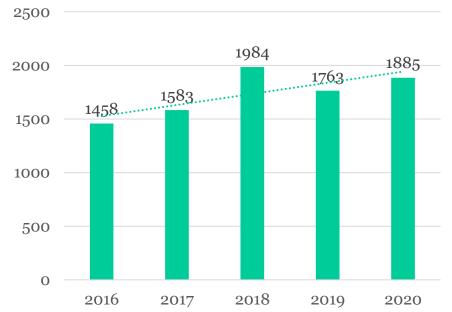
□Near miss report未遂事故报

In April 2013, "near miss report" is commenced in SNF Taixing site to reduce accident happened.

Almost 160 near miss reports have been received every month in 2020.

Quantity of received near miss reports Unsafe Act 2500



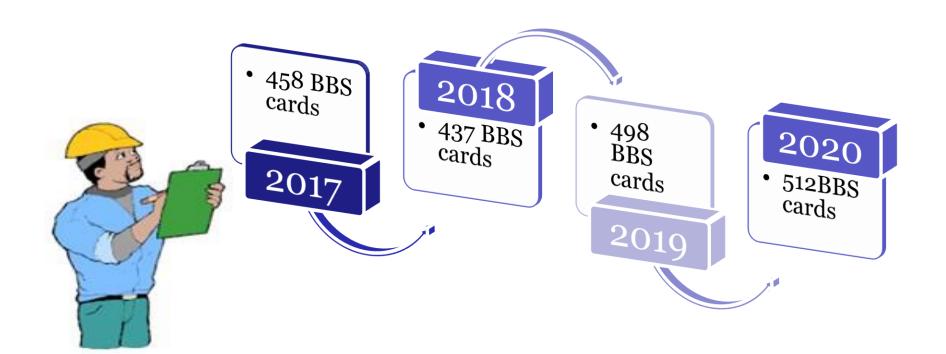






In October 2013, BBS observation project is initialed.

- Nowadays we have 28 qualified BBS observers.
- OHS can receive almost 48 BBS cards every month, then analyze the unsafe behaviors and make them corrected.





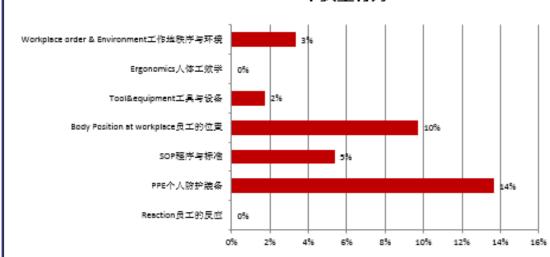
职业卫生安全OHS-BBS observation report安全行为观察报告

Monthly BBS observation & communication data analysis

BBS observation & communication data analysis

BBS observation section 观察的类别	amount of each observed BBS section	Numb er 数量	Ratio of Safe behavior in BBS observation 被观察到的安全行为所占 物观察到的比例	Numb er 数量	Ratio of Unsafe behavior in BBS observation 被观察到的不安全行为所占 物观察到的不安全行为所占	Numb er 数量	% Category of observation/Safety suggestion 占建议总量比例
Reaction员工的反应	288	288	100%	0	0%	0	0%
PPE个人防护装备	432	373	86%	59	14%	0	0%
SOP程序与标准	336	318	95%	18	5%	0	0%
Body Position at workplace员工的位置	432	390	90%	42	10%	0	0%
Tool&equipment工具与设备	288	283	98%	5	2%	0	0%
Ergonomics人体工效学	240	240	100%	0	0%	0	0%
Workplace order & Environment工作单秩序与环境	240	232	97%	8	3%	0	0%
Total合计:	2256	2124	l l	132	ı	0	0%
Amount of safe behaviors and unsafe behaviors行为总数	2256	/	Rate of safe behaviors	94%	Rate of unsafe behaviors	6%	/

Unsafe behavior不安全行为



Safety Situation:

Pve got 48 BBS observation cards in Sep 2020 Rate of unsafe behaviors was 6.20 which is as same as the last. month. We shall keep improving our safety all over the company!

2. Main Unsafe Sections Analysis:

1. PPE was 14%. According to the observation cards the results highlighting as follow:

PO8-VI1M2 maintainence

- ' Didn't wear dust mask well.
- 'Didn't set chin strap well
- Didn't wear earplugs
- ' Didn't waer safety goggles
- 2. Body Position at workplace was 10%. According to the observation cards the results highlighting as follow: Most of this issue are working without safety glasses. Working at high place without safety belt is also high-frequency
- 3.50P was 5%, According to the observation cards the results highlighting as follow:

Most of this issue is working without work permit.





职业卫生安全OHS-EHS action follow up list EHS追踪单

Implement:

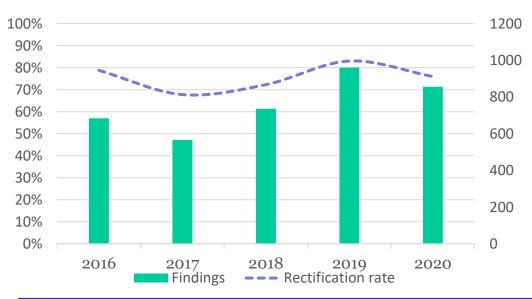
EHS findings from various EHS inspections are put on the follow up list to track.

Each item on the list will be taken care of within one month.

Follow up list reviewed weekly.

Plan Do Check

EHS findings and rectification rate





职业卫生安全OHS-Positive OHS Culture积极的OHS 文化

Toolbox meeting have been running continuously since 2015 从2015年至今班组活动持续正常运行

- The topic of toolbox meeting is decided by staffs.
- Organized by themselves.
- Every shift should organize the toolbox meeting at least twice each month.





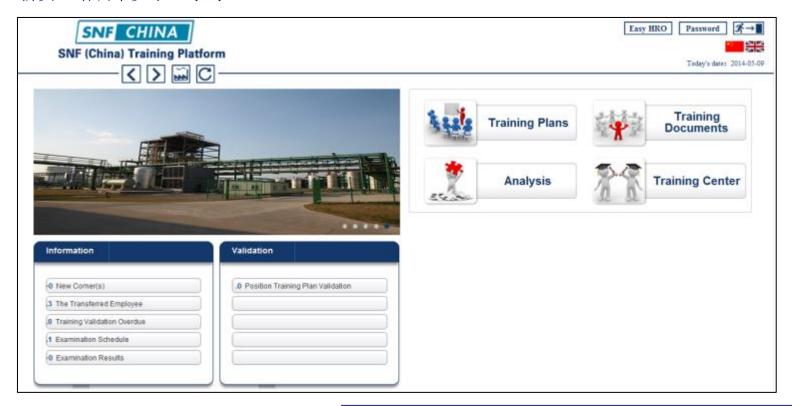




职业卫生安全OHS -Positive OHS Culture积极的OHS 文化

□ Competence and general OHS training 能力和OHS培训

- Employee training is managed in SNF training platform including new comer.
- 员工培训在SNF培训平台进行管理,包括新人培训。
- We provide series contents on HR,OHS, operation etc..
- 我们提供人力资源安全环保,操作等各种内容
- It is not less than 72 hours training for new comer.
- 新员工培训不少于72小时。







职业卫生安全OHS -Positive OHS Culture积极的OHS 文化

- After training, attendees must pass examination in the training platform then can get a passport as qualified operator in workshop operation.
- 培训后,员工要通过培训平台的考试,合格后才能操作。
- Score for both OHS and operation skill are recorded.
- 安全环保培训和操作技能培训分数都要记录

· "维发"。		培训成绩		
安全考试比分	71.8			-
技术考试比分	88.5	车间培训导师评论		
其他				
		工作获能		
根据以上各项培训成绩,	我同意 <u>胡荣</u> 顺利完成他/她	的工作岗位培训计划。		-
该员工能够作为	<u>胺生产操作工</u> 独立上岗。			
部门经理 又 投				
日期 2014 4 25				
至期间,我_胡荣_参加了	了岗位培训计划的全部内容。		•	
经过培训,我能够作为	丙烯酰胺生产操作工 独立上	岗。		
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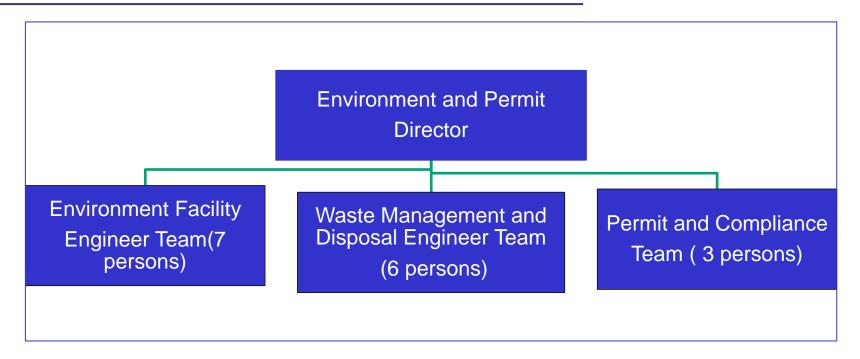








环保Environment- 专业团队建立Professional team set up



- SNF set up the separate Environment and Permit Team to enforce and specify environment management, improve environment performance, achieve full compliance to regulation. 爱森成立单独的环保许可团队,从而加强和专注于环保管理,提升环保绩效,实现合规运行。





环保Environment-Policy 方针

- Strictly follow Regulation requirement to run environment facility, control emission and discharge, manage and dispose all waste. 严格执行法规要求,运行环保设施,控制大气和水的排放,管理和处置所有废物。
- □ Continuously improvement environment performance, drive to improve process to reduce the waste, emission and energy and water consumption, encourage the resource utilization.持续提升环保业绩,致力于改进工艺以减少废物产生,减少排放,减少能源和水的消耗,鼓励资源综合利用。
- Set up all environment performance data inventory and measurement system, identified all deviations in time, control and drive to reduce environment emission.建立环保绩效数据清单和检测系统,及时识别偏差,控制并减少环保排放。
- Encourage all environment incidents to be reported, all environment deviations are analysed and investigated to find the root cause.鼓励汇报所有环境事件,所有环境偏差得到分析和调查并找出根本原因。
- Set up Environment Performance Audit Program, improve Top to Down Environment Awareness.建立环保绩效现场稽查制度,从上到下提升环保意识。





环保Environment- 危废处置DG waste disposal

- Build new 400m2 HW storage, can accommodate 400 t HW, all HW are disposed within one month(legal request not more than three months). 新建400平方米危废仓库,可以同时容纳400吨危废,所有的危废当月内及时处置(法规要求不超过三个月)。
- □ Install Smart Hazards Waste Management system, video measurement and record all Waste receiving and delivery安装智能化危废称管理系统,视频称重计量系统,对危废进出进行控制。
- □ The HW measurement system is connected to TEDA EPB, the receiving and delivery is supervised by EPB危废称重系统和环保局联网,废物收发称重过程均由环保局监控。







环保Environment - Two Waste Incinerators

- □ To response National resource utilization and Waste reduction, SNF build two Incinerators with total capacity 800kg/h, can reduce 3000t/a waste. 为了响应国家资源综合利用,减少废物产生,爱森建立两套焚烧炉,产能共计800公斤/小时,每年减少约3000吨危废处置。
- □ Incinerator produce SnO2 ashes and then extract metal to reproduce catalyst back to process, not only bring huge economic income, but also drive to reduce Hazards waste, achieve win-wins to environment and operations. 焚烧炉生产锡灰到提炼金属锡,再生产催化剂回到生产使用,不仅带来巨大经济效益,同时降低危废产生,实现环保和运行双赢机制。
- □ The field incinerator also improve HW waste logistic safety for HW residuals are dangerous during transportation to treatment.现场焚烧同时提升危废物流安全,消除了危废处置运输过程的不安全因素。







环保Environment - 气Air

- □ To drive to reduce emission, SNF invest to improve process, environment facility to contribute to the air quality, make blue sky light. 为了减少对大气的排放,爱森投资改进工艺,环保设施,致力于改进空气质量,让蓝天更蓝。
- SNF all off-gas from process and tank go for TO burning, SNF will continue to expand TO capacity to drive to reduce emission further. 爱森所有尾气均进入TO炉焚烧,爱森将继续扩大TO炉的能力,致力于降低排放。
- □ Install Polaris Treatment to condense MeCL, not only reduce VOC, but also recycle MeCL and realize circular economy. 一氯甲烷冷凝吸收装置,不仅降低VOC排放,而且对一氯甲烷回收再利用,实现循环经济。

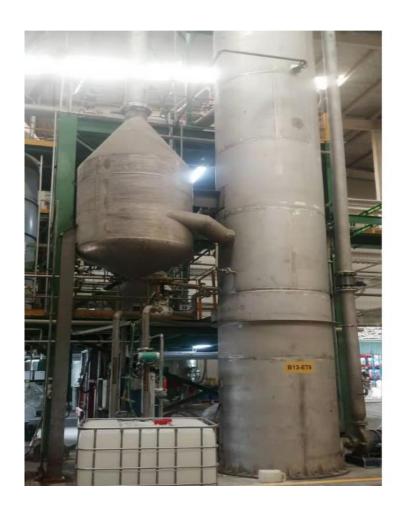






环保Environment - 气Air

- □ To drive to reduce NH3, SNF improve process, recycle NH3 emission by producing (NH4)2SO4, also contribute the circular economy. 为了减少氨气对的大气排放,爱森投资改进工艺,将氨气变成副产硫酸铵,从而实现循环经济并减少排放。
- □ In the coming few years, SNF will continue to drive to optimize and revamp our process, to reduce emission and impact to environment. 未来几年,爱森将会继续对工艺进行持续改进和优化,降低排放,减少对环境的影响。







环保Environment-气 Air

In 2020, LDAR inspection is planned 4 times:

- 2 times full inspection of 26342 sealed points (June and December).
- 2 times inspection for 7026 dynamic seals (March and September).

Following the full inspection of June 2020 and after maintenance, the releasing quantity of VOCs is 1845kg/a, and have reduced 2667kg/a VOCs emission.







排放量与减排(kg)							
运行部	维修前VOC	维修后VOC	减排量				
ADAM	3024.82	661.79	2363.03				
粉末车间	506.8	506.8					
丙烯酰胺装置	157.48	157.48					
罐区	485.06	181.21	303.85				
Dadmac装置	53.53	53.53					
B25	18.59	18.59					
B15	200.15	200.15					
精馏残渣装置	62.18	62.18					
B05罐区	3.16	3.16					
合计	4511.75	1844.87	2666.88				





环保Environment - 水 Water

- SNF 600t/a WWTP plant, use air flotation + hydrolysis acidification + MSABP sewage treatment system 启用气浮+水解酸化+MSABP的污水处理系统。
- □ Use evaporators as pre-treatment for high concentration WW, to ensure WWTP in stable operation, achieve far below 500 mg/l discharge.采取蒸发工艺处理高浓度污水,确保污水处理厂稳定运行并达到COD远低于500排放。
- □ Use low temperature plasma UV light technology to treat exhausted gas, reduce VOC emission.废气采用低温等离子+UV光解除臭技术来处理,减少VOC排放。





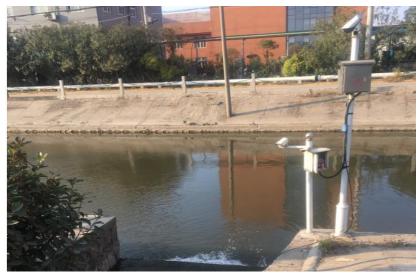




环保Environment - 水 Water

- SNF TX TEDA Chemical Park is close to Yangtze River, all Rainwater discharge must achieve COD below 30mg/L, NH3N below 1.5mg/L, TP below 0.3mg/L.爱森泰兴化工区紧靠长江,所有雨水排放必须执行COD低于30mg/L,氨氮低于1.5mg/L,总磷低于0.3mg/L。
- Online monitor of COD is connected to rainwater discharge gate and EPB to control no above limit rainwater are discharged. 在线COD监控和雨水排口闸门以及环保局联动,确保没有超标的水排出。
- □ All tank farms, 15 minutes rainwater are collected to be treated, strict rainwater management to ensure no any pollution to rainwater. 所有罐区15分钟初期雨水收集处置,严格的雨水管理确保雨水没有任何污染。



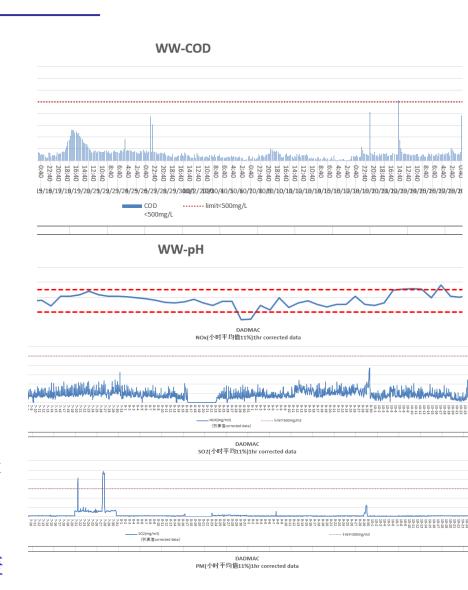






环保Environment- 水

- SNF online monitors: total 17 sets (CEMS, NHMC, ACN, HCL, COD, NH3N, PH, Flow meter) are connected to EPB &TEDA, SNF all emission and discharge are watched by EPB and SNF strictly.爱森共17套在线监控 (CEMS, NHMC,ACN, HCL,COD,氨氮,PH和流量计),均接入环保局和TEDA,爱森所有排放都受到环保局和爱森严格监控。
- SNF TO, incinerator, WWTP run status are connected to TZ EPB. 爱森TO炉, 焚烧炉,污水处理厂的运行工况接入泰州环保局。
- All environment emission are partial of process control and line manager take the responsibility to control.所有环保排放都是工艺参数控制的一部分,现场经理有责任去控制。
- Environment trace all deviations, analyze and find root cause.环保部对所有排放偏差进行跟踪分析并找出具体原因。







环保Environment -Waste Reuse, Recycle, Recover

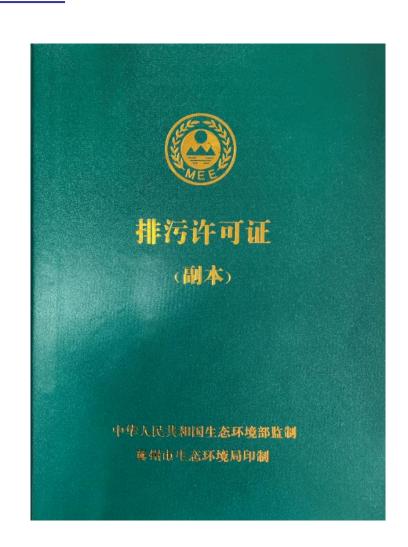
- □ Continue to increase MeOH boiler's capacity, to utilize 22.6kt/a MeOH and produce 66kt/a steam.继续增加甲醇锅炉的产量,将会扩大到消耗22.6万吨甲醇副产物,自产18.8万吨蒸汽。
- Follow Hazards chemical category, implement precisely Waste separation, try to avoid package polluted from workshop and recycle, reduce Waste. 严格按照危险化学品目录,实现废物精细化分类,从车间避免污染包材从而实现回收,减少废物产生。
- Encourage to reuse IBC and drums, e.g. H2O2 and Acetic Acid reuse, LQ IBC reuse.鼓励重复使用IBC桶,如双氧水桶,乙酸桶回用,水剂桶回用。





环保Environment- Discharge Permit Update

- □ Change SNF discharge permit from Petrochemical to special chemical industry. 将爱森排污许可证从石油化学行业变更到专项化学品行业。
- □ Follow Discharge permit requirement to do regular self-monitoring for 51 exhausted ducts. 执行排污许可证要求, 对51个排气筒,展开定期环保监测。
- □ Inventory SNF actual discharge quota and emission concentration, compared with EIA approval quota and its limit.盘点爱森实际排放量和浓度值,和环评批复进行比对。
- Assess whole plant discharge GB code limit and total Quota risk and find solution.评估整个工厂排放限值和排放总量风险,找出解决方案。







环保Environment-应急演练ERP drill





环保Environment- Audit Program

- □ Total 150 audit reports have received since July, encourage all environment team to do field site audit, identify and solve the findings. 自2020年7月份开始,环保部共实施了稽查,收到了150份报告,鼓励环保部所有成员实施现场稽查,及时发现现场问题并立即解决问题。
- Environment audit program will help SNF to identify deviation in time, improve field site environment awareness, and then improve SNF field site environment performance. 环保部稽查制度会帮助公司及时找出偏差,提升现场环保意识,同时提升现场环保绩效。

機構を開発 A. Jake J Dior 1 + Ch			★数4分□ 世界人 - 12 つ ·	L-, 2020 #1	0.04		
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D3南侧冰水罐滴漏,取样分析COD数值超	过1650.通过		废水进行集中处		工程		已完成
桶进行收集,水桶已经接满。		理		The	utility		done
03 south ice drip POTS, sample analysis COD value more than 1650, the wastewater is full.		Centralized treatment of collected wastewater					
31TO 沪帧洗塔育商景现象,已通知生产 ne scrubber is leaking and the producti as been informed.	·工程师。 on engineer	进行修复 The prodects contacts mainten	duction engineer s the	维修介	·部门 1A		
水沟上游有实油堆积,未对总排口造成 here is a small amount of diesel accum ostream of the channel, which does no W outlet.	ulation in the	Oil abso	持续吸附。 rbent cotton is continuous	E	NV		

爱森(中国)絮凝剂有限公司



节能减排 Energy saving and emission reduction

- 改造项目:
- Renovation projects:
- C2: 淘汰现有5000吨/年硫酸铵装置,增加母液蒸发装置,现有2万吨/年硫酸铵生产线扩建为3万吨/年硫酸铵生产线。经废气处理后的含氨废水,加入 硫酸,形成硫酸铵溶解,结晶后成为硫酸铵,是化肥的一种。
- C2: Eliminate the existing 5000 tons/year ammonium sulfate facilites, add mother fluid evaporation skid, then extent the existing 20,000 tons/year ammonium sulfate productivity to 30,000 tons/year. Ammonium-containing wastewater after exhaust gas treatment is added to sulfuric acid to form ammonium sulfate dissolved and crystallized into ammonium sulfate, which is a kind of fertilizer.
- 环保: 水
- Environmental protection: water
- 处理: 废气处理后的含氨废水,加入硫酸,形成硫酸铵溶解,结晶后成为硫酸铵,是优良氮肥之一。
- Treatment: ammonia-containing wastewater after exhaust gas treatment, added sulfuric acid, formed ammonium sulfate dissolved, crystallized into ammonium sulfate, is one of the excellent nitrogen fertilizer.
- 排水:比现有标准提高了雨水排放要求,将COD减少到30,减少对环境的污染和影响。
- 采用紫外线灯对冷却塔循环水进行杀菌处理,排水前采用电导率仪与排放阀门联锁,智能达标排放,减少对环境的污染。
- Drainage: Increases stormwater discharge requirements compared to existing standards, reduces COD to 30, and reduces pollution and impact on the environment.
- The use of ultraviolet lamps to cool tower circulating water sterilization treatment, drainage before the use of conductivity meter and discharge valve interlock, intelligent emission standards, reduce environmental pollution.
- 减少用水量:继续对其他生产线上的容器进行高压清洁喷嘴改造,大大的减少了用水量和污水量。
- 污水经过蒸发处理后产生的清洁水,原本送污水装置处理的,现在重新收集并用于生产线作为冲洗水循环使用。
- Reducing water consumption: Continue to make high-pressure cleaning nozzle modifications to containers on other production lines, significantly reducing water consumption and sewage volume.
- Clean water produced by evaporation treatment of sewage, originally sent to the sewage unit for treatment, is now re-collected and used in the production line for recycling as flushing water.





节能减排Energy saving and emission reduction

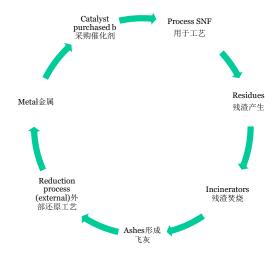
- 环保: 节能
- Environmental protection: energy saving
- 节能工作
- Energy-saving work
- 氧化锡回收装置烟气余热回收系统。氧化锡回收装置在运行中产生大量高温烟气,采用余热锅炉收集烟气中的余热生产蒸汽并网,烟气生成量约3800Nm3,温度约900度,可连续生产质量为0.75t/h压力为 2.0MPa 温度为214.9度的过热蒸汽。按年运行时间330计,每年可回收5940吨蒸汽,年节能量达568tce。
- Flue gas recovery system of Incinerators can make heat recovery. Incinerator in operation to produce a large number of high-temperature flue gas, the use of waste heat boiler to collect the residual heat in the flue gas production steam and reuse it, flue gas generation of about 3800Nm3, temperature of about 900°C, can continuously produce a mass of 0.75t/h pressure of 2.0MPa temperature of 214.9°C of superheated steam. With an annual operating time of 330hr, 5940 tons of steam can be recovered each year, saving 568tce per year.
- 新型节能空压机替换老旧空压机。空压机系统目前几乎处于满负荷运行状态,空压机改用目前最节能的二级压缩螺杆空压机,容积效率和绝热效率更高,能效进一步提升。
- Use the new energy-saving air compressor replaces the old air compressor. Air compressor system is now at full capacity operation, air compressor to the current most energy-saving secondary compression screw air compressor, volume efficiency and insulation efficiency is higher, energy efficiency further improved.
- 副产品甲醇全部燃烧用于生产蒸汽,提高蒸汽回收比例,降低外购蒸汽输入。2020年1-9月内部产蒸汽68629吨,折标煤6519tce(热值取0.095kgce/kg),降低外购能源输入6519tce。
- The by-product methanol is all burned for the production of steam, increasing the proportion of steam recovery and reducing the input of purchased steam. From January to September 2020, the internal production of steam 68,629 tons, 6519tce (thermal value of 0.095 kgce/kg), reduce the import of foreign energy 6519tce.





循环经济Circular economy

- 1.废气处理后的含氨废水,加入硫酸,形成硫酸铵溶解,结晶后成为硫酸铵,是优良氮肥之一。 Treatment: ammonia-containing wastewater after exhaust gas treatment, added sulfuric acid, formed ammonium sulfate dissolved, crystallized into ammonium sulfate, is one of the excellent nitrogen fertilizer.
- 2. 氧化锡回收装置出来的废灰含氧化锡,可以交给下游的企业提炼出金属锡和催化剂,催化剂仍可以用于工艺使用 The waste ash from the tin oxide recovery device contains tin oxide, which can be handed over to downstream enterprises to extract the metal tin and catalyst, which can still be used in the process







ANTI-CORRUPTION 反贪腐



-For our employees, everyone who joined the company need to sign the SNF Company Business Ethics **Rules** and do the work according to this rule.

对于我们的员工,每个人在入职时都 会接受反贪腐的培训, 并签名。



Commercial **Partners** 商业伙伴

-SNF does its utmost to choose reliable and ethical commercial partners. Every supplier shall sign the Charter on Suppliers' Ethics. 对于我们的商业合作伙伴, 我们会将 反贪腐的要求传递给他们, 以施加影 响

we pass URSA

URSA: Understanding Responsible Sourcing Audit The terms of this audit include:

Business is conducted lawfully and with integrity Work is conducted on the basis of freely agreed and documented terms of employment 2. The first point is: **Business is conducted** lawfully and with integrity All workers are paid fair wages Working hours for all workers are reasonable All workers are free to exercise their right to form and/or join trade unions or to refrain from doing so and to bargain collectively 9. All workers' health and safety are protected at work 10 All workers have access to fair procedures and remedies 11. Land rights of communities, including indigenous peoples, will be protected and promoted Zero anti-corruption issue recorded in Y2020

2020年"零" 含腐事件。

Slide 45 - 2020 -CONFIDENTIAL 2020年11月



In the future未来......



- "Zero tolerance" to accident
- □事故零容忍
- We will keep expanding our plant
- □继续扩建工厂
- We will boost more OHS activities
- □ 推动更多的OHS 活动
- ☐ We will recruit more people
- □录用更多的员工

