



*Report of Communication on Progress*  
*进展报告*





- 一、支持申明Statement of continued support
- 二、持续性改进Continuous improvement
- 三、管理层承诺Top management commitment
- 四、员工Employee
- 五、社会责任Social ability
- 六、安全健康宣言和环保方针Healthy safety declaration and environment policy
- 七、安全Safety
- 八、环保Environment
- 九、反腐败Anti-Corruption



# 持续支持申明 - Statement of continued support

## Statement of continued support 持续支持声明

Dec 2018

To our stakeholders:  
致本公司利益相关者:

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

PAGE: 1/1



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# 持续改进 Continuous Improvement

- 年度安全/质量/环境管理评审
- Yearly safety/Quality/Environment 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
- EcoVadis CSR silver 企业社会责任银牌

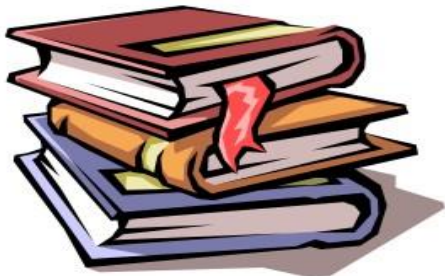




## 管理层承诺

### Top management demonstrate commitments:

- Management review 管理评审
- safety meeting 安全会议
- Various Plant HSE inspection 多方面HSE 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



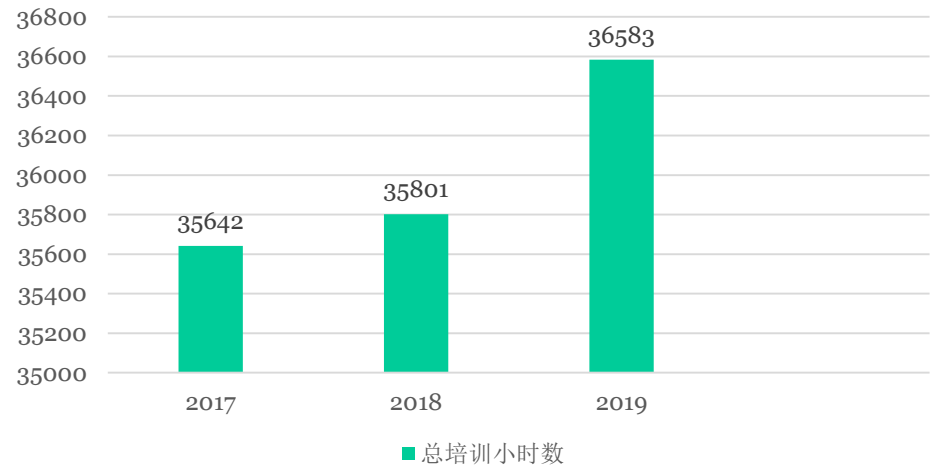


# 员工 Employee

## ❖ 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36009h, 其中
- 27699h为安全培训
- Average training hour 36009H/Y, 27699H for safety training

总培训小时数 Total Training Hours

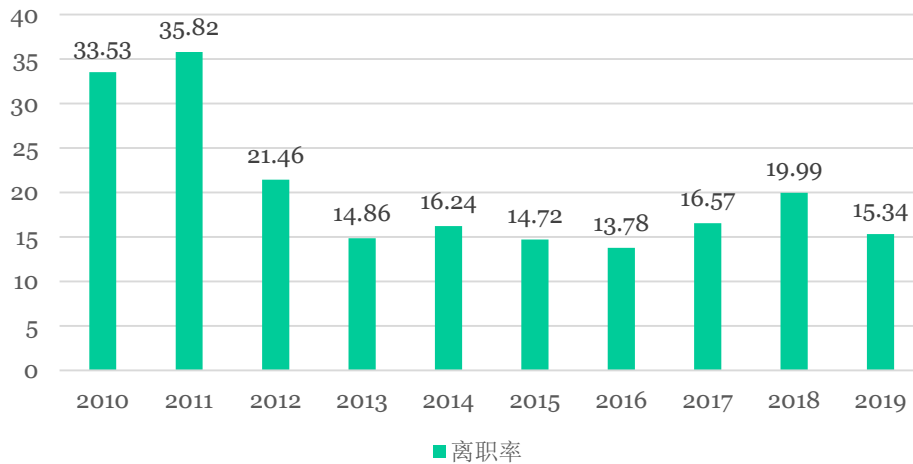




# 员工 Employee

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

离职率 Turnover



- 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
- 内部晋升internal promotion
- 持续的工资增长  
Continual salary increasing



# 员工 Employee

- 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

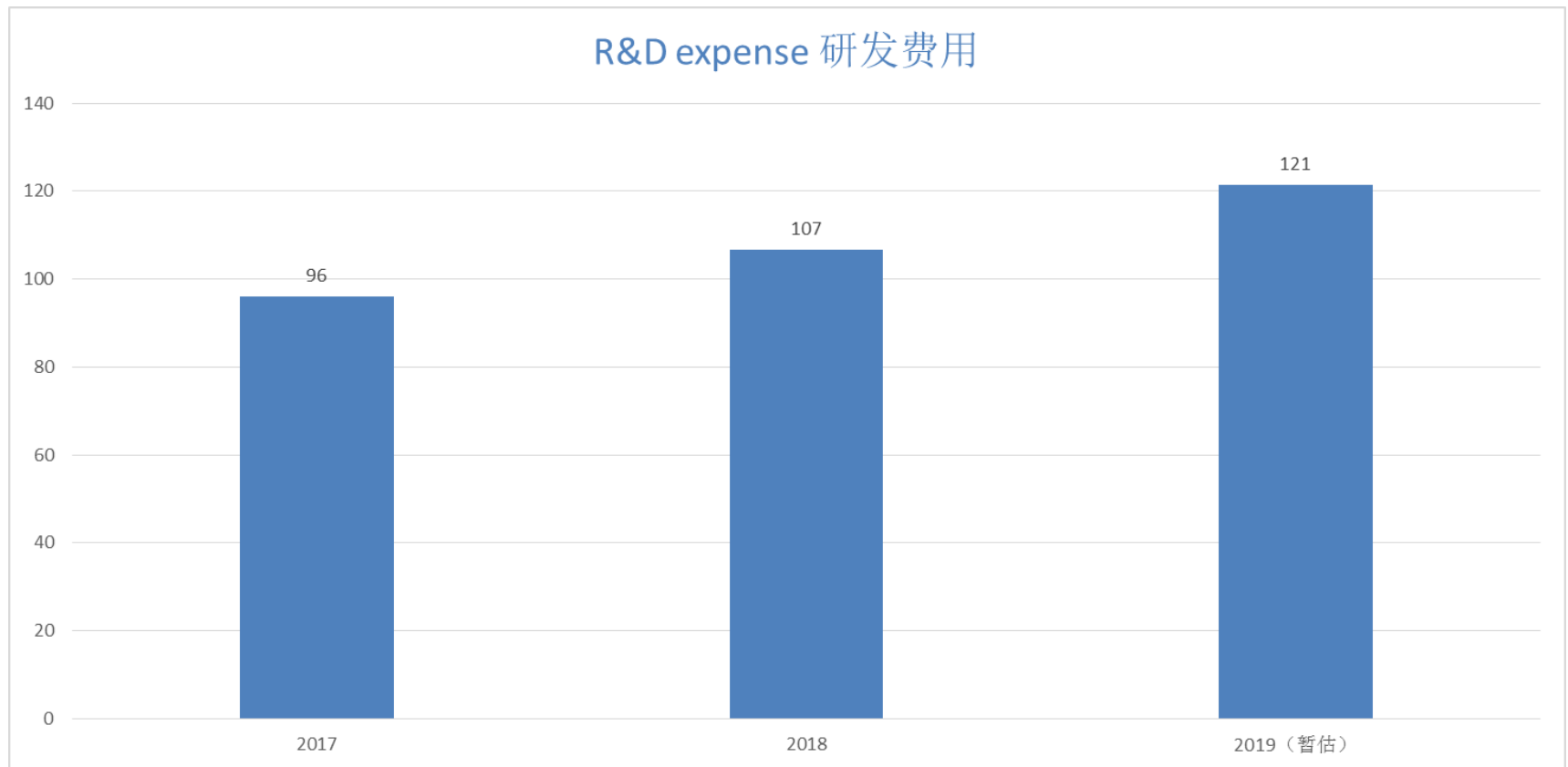






# 高新企业 High-Tech

现有研发人员155人，16个专利证书  
155research staff, 16 patents





## 社会责任 Social ability

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- 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



# 安全环保方针 EHS Policy

**Health and Safety Declaration**  
**健康安全宣言**

SNF CHINA puts Health and Safety at the top of its list of objectives 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  
爱森公司承诺将实施以下方针以确保所有活动均在保证职业健康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. 在识别和其他要求作为体系输入项, 通过风险和机遇进行分析评价, 以实现有效管理。

Involvement and responsible behaviour of every employee to realize worker participation and consultation. 关乎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. 安全不仅仅是在任何其他因素的环境下才凸显首位, 它有着更重要的位置: 它关乎任何人在任何情况下所承担, 这也是我们管制完成既定目标的行为规范的原因。

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

We make a permanent evaluation of professional risks with formalization, updating and availability to the whole staff through the Unique Document. It's an evolving working document created by all the actors (working groups, Unique Document...). 我们将对职业风险进行持续性的评估, 并将其制度化, 以单独文件的形式呈现, 落实到每个员工, 并通过全体参与者(工作团队, 单独文件...)建立的工作文件实现。

Proximity Management and follow up 追踪和管控

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

REV: 02 PAGE: 1/2

issues, 由所有参与者(从生产工程师到员工)以及众多审计和会议, 生存和合作安全持续考量而实现工厂日常追踪和管控。

**Risk detection and preventive measures 对潜在风险的发现和预防措施**

Safety audits will allow us to put in place the elements of progressions to identify dangerous situations and to take the necessary measures to eliminate them. 安全审计使得我们能够预防不安全因素的意见, 发现危险情况并采取必要措施进行处理。

Dysfunctions / Incidents / Accidents analysis and corrective actions 运行不良/事件/事故以及更正措施的分析

I consider each dysfunction, incident, accident as a failure of our accident prevention guidelines. Therefore, their systematic analysis should allow us to avoid their recurrence. 我们将每次运行不良, 事件, 事故均视为预防指南的失败, 与此同时我们对每次运行不良, 事件, 事故系统的分析使得我们避免类似事件的再次发生。

Follow-up of Performance Indicators 对结果的追踪

I am committed to the evaluation of the efficiency of our accident prevention guidelines and measurement of its accomplishments in order to better the new improvement guidelines and objectives. 我们将评估我们的预防系统的有效性并厘清系统改善方面的进步。

Follow-up of the improvement of accident prevention guidelines 对预防措施的完善计划

I will follow-up on the advancement of the annual prevention improvement plan and the annual updating of professional risks evaluation (Unique Document) which are established under the control of the CHSCT (Workplace Health and Safety Board), and coordinated by the Health and Safety Department. If they are applied by EVERYONE, they are the guarantee of the long-lasting improvements in our safety results. 我们将跟踪年度预防系统的优化和年度职业风险评估(单独文件)的进展, 它们由CHSCT负责, 并由安全职能部门协调, 致力于保障我们安全成果的持续实现。

Bruno Michel  
General Manager SNF China  
Date: 2019-01-01

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DOC N° 06-10130 REV: 02 PAGE: 2/2

**Environmental Policy**  
**ISO 14001 环境方针**

SNF'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 policy.  
爱森致力于水处理、油田、造纸和采矿领域的产品的研发, 生产和销售活动, 肩负着环境改善的使命。作为行业的领先者, 爱森将遵循以下环境方针, 实现环境的持续改善。

- Comply with existing local legislation and environmental regulations. 遵守现有的法律法规规定及要求。
- Advocate actions to prevent any environmental degradation during the whole process, and have end treatment before discharging. 预防污染, 达标排放。
- Minimize the environmental impact of our activities, to reduce our energy and source consumption. 减少组织活动对环境的影响, 降低能源和资源的消耗。
- 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, 减少废物排放。
- Keep improving environment system and environment performance, and contribute for the global environment protection. 持续改进环境体系和绩效, 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. 推动员工及相关方参与环境活动。
- Benefit all the group's entities from worldwide feedback and communication. 集团全球范围内环境信息交流与共享。

In order to reach these goals, SNF has implemented an Environmental Management System under ISO 14001 standard. And our commitment is to fulfill the current and future obligation and expectations as a modern industrial company.  
为实现这些目标, 爱森在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, 爱森将又不容辞地持续承担当前或将来

CONTROLLED DOCUMENT  
受控文件

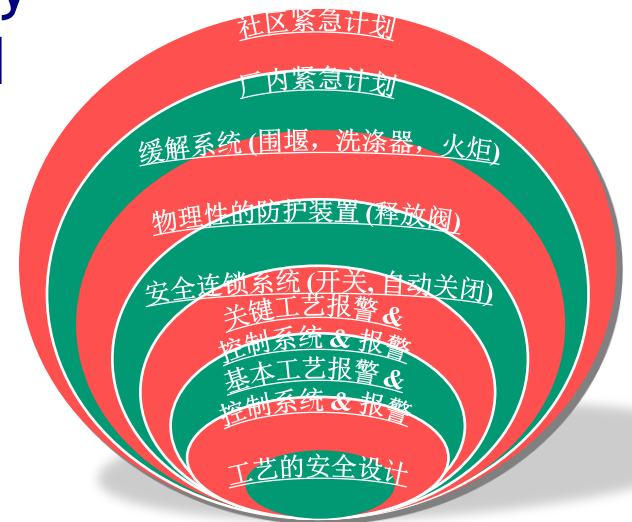




## 安全Safety- SNF 安全的可靠性Safety reliability

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。

- 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.





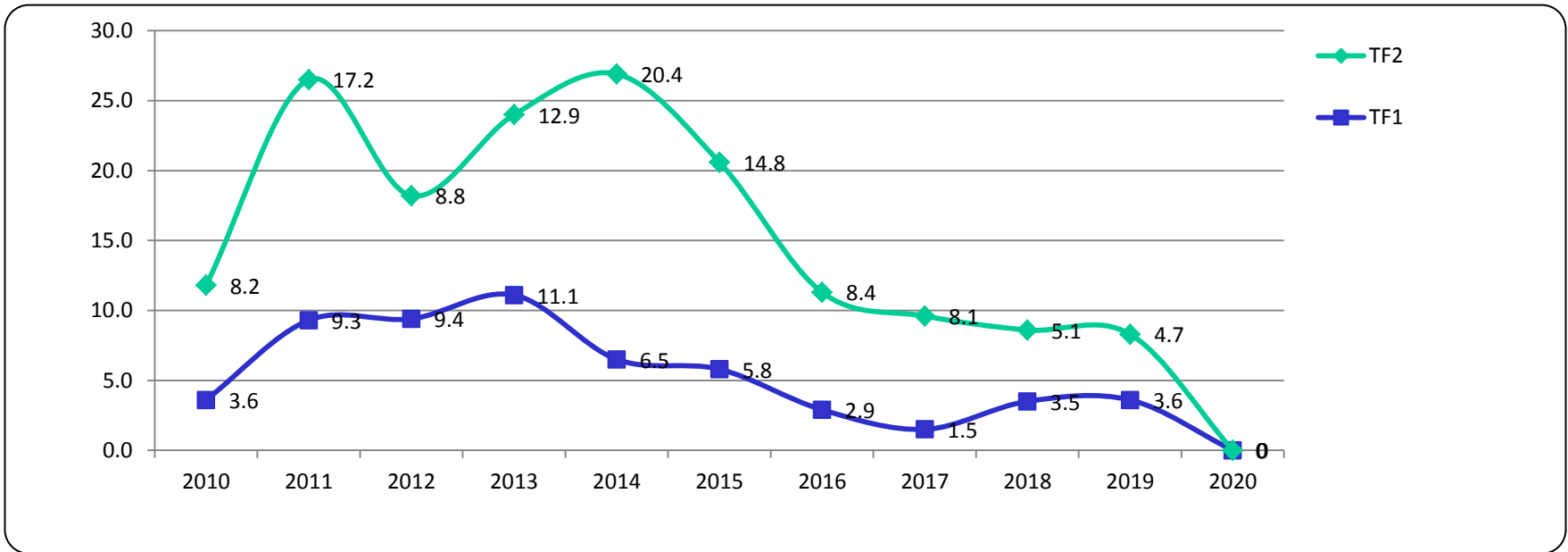
# 安全 Safety- Smart safety management system 智能化安全 管理系统

In 2019, build a smart safety management system, this system involves: 2019年实施智能化安全管理系统，包括

- Detailed GPS of major posts 人员定位
- 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



# 安全 Safety- Historical data of safety performance 安全成绩的历史数据



## NOTE:

$$TF1 = \frac{\text{Accident with Lost times}}{\text{Total Work hours}} \times 10^6$$

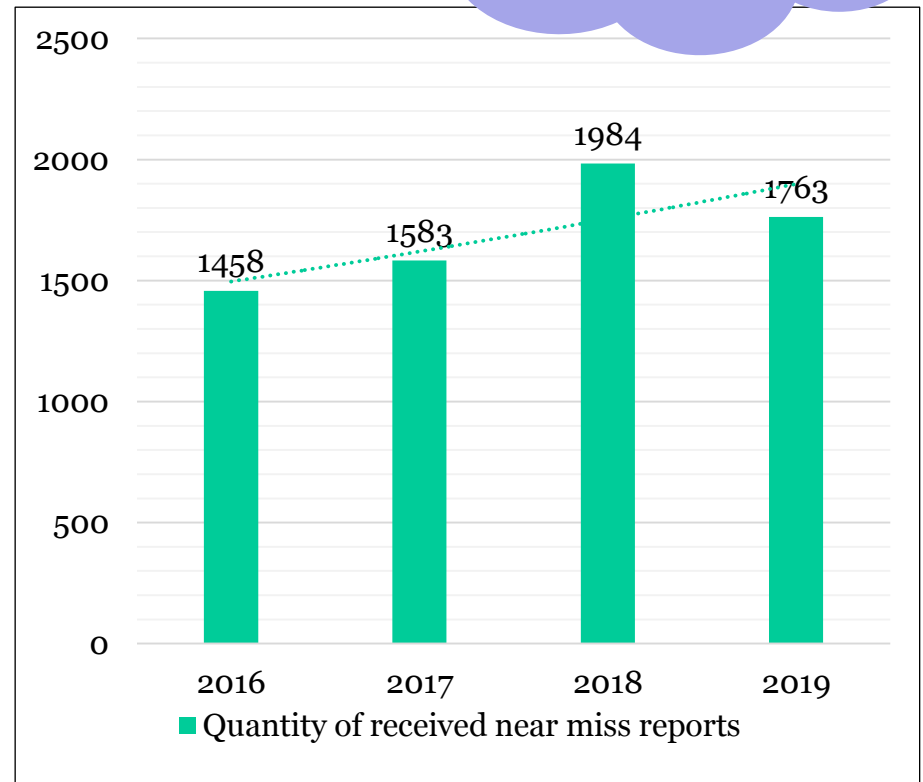
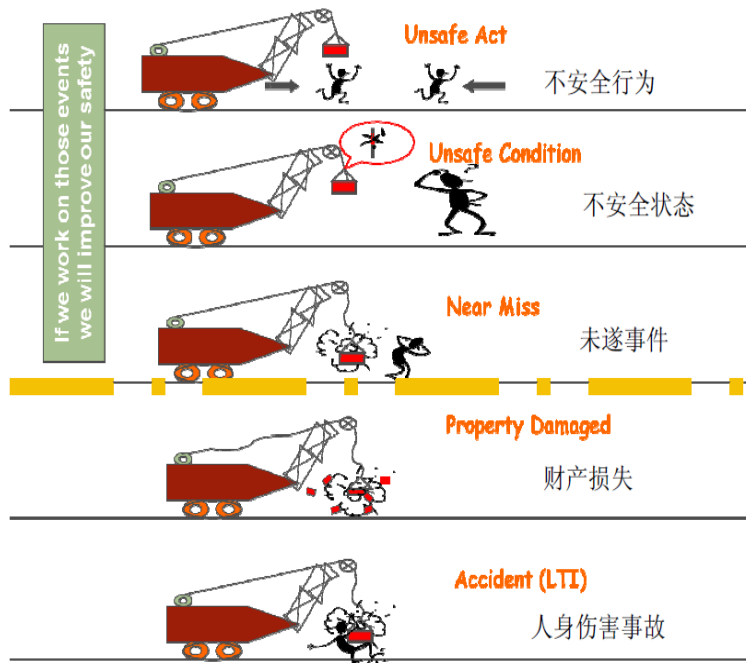
$$TF2 = \frac{\text{Accident with Lost times} + \text{Accident without lost times}}{\text{Total Work hours}} \times 10^6$$



## □ Near miss report 未遂事故报

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

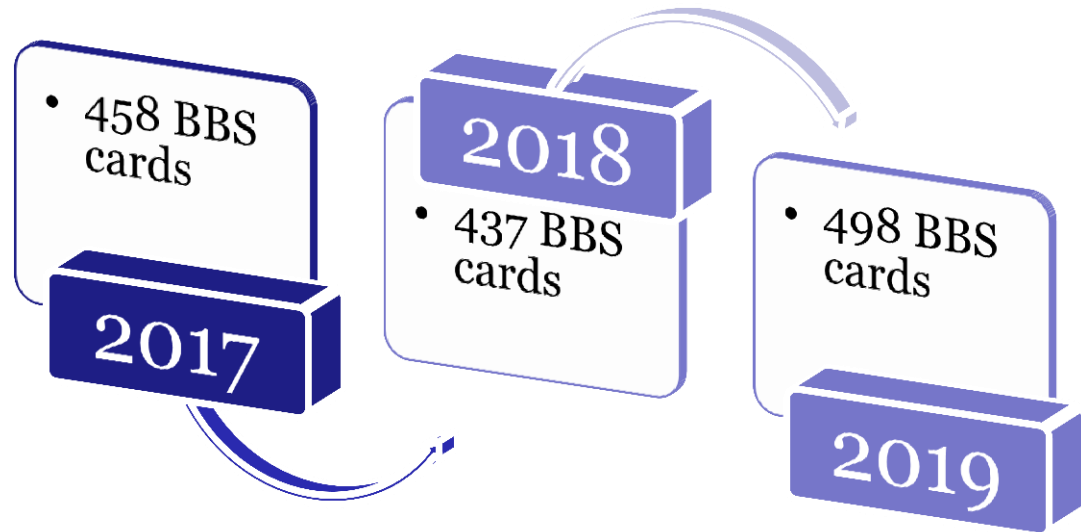
Almost 165 near miss reports have been received every month in 2018.





In October 2013, BBS observation project is initialed.

- Nowadays we have 29 qualified BBS observers.
- HSE can receive almost 52 BBS cards every month, then analyze the unsafe behaviors and make them corrected.





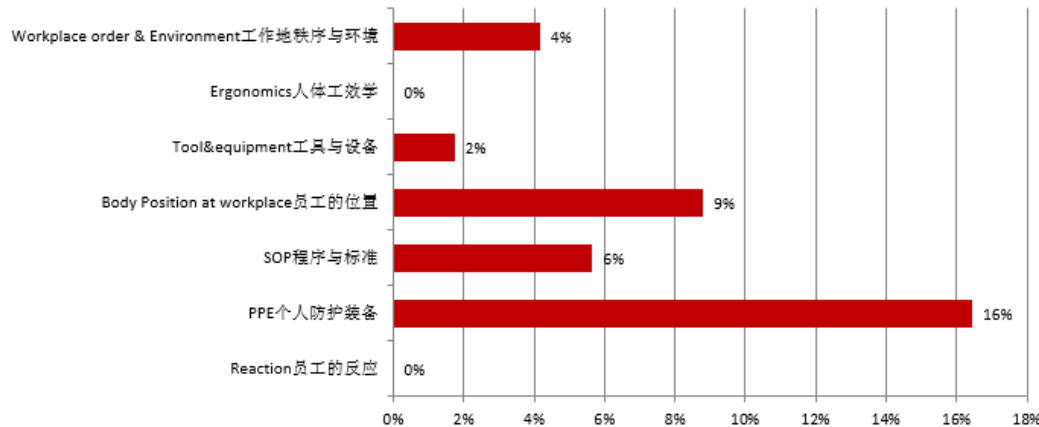


# 安全 Safety-BBS observation report 安全行为观察报告

## Monthly BBS observation & communication data analysis

BBS observation section 观察的类别	安全行为观察数量 Observation amount of each observed BBS section	Safe behavior 安全的行为		Unsafe behavior 不安全的行为		Safety suggestion from employee 员工的安全建议	
		Number 数量	Ratio of Safe behavior in BBS observation 被观察到的安全行为所占观察 类别的比例	Number 数量	Ratio of Unsafe behavior in BBS observation 被观察到的不安全行为所占观察 类别的比例	Number 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	361	84%	71	16%	0	0%
SOP程序与标准	336	317	94%	19	6%	0	0%
Body Position at workplace员工的位置	432	394	91%	38	9%	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工作地秩序与环境	240	230	96%	10	4%	0	0%
<b>Total合计:</b>	<b>2256</b>	<b>2113</b>	<b>/</b>	<b>143</b>	<b>/</b>	<b>0</b>	<b>0%</b>
<b>Amount of safe behaviors and unsafe behaviors行为总数</b>	<b>2256</b>	<b>/</b>	<b>Rate of safe behaviors 安全行为比例</b>	<b>94%</b>	<b>Rate of unsafe behaviors 不安全行为比例</b>	<b>6%</b>	<b>/</b>

### Unsafe behavior 不安全行为



#### 1. Safety Situation:

I've got 48 BBS observation cards in Sep, 2019, Rate of unsafe behaviors was 6% 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 16%. According to the observation cards the results highlighting as follow:

ADEN guys maintain the flange over bottom valve of PO5-R6

\* Work without safety goggles, earplugs, dust masks and didn't set chin strap well, rolled up their sleeves

\* Didn't use any steptool just stand on the long screw.

2. **Body Position at workplace** was 9%. According to the observation cards the results highlighting as follow:

Most part of this issue are driving forklift without seat belt and work without mask when feeding

3. **SOP** was 6%. According to the observation cards the results highlighting as follow:

Install heat preservation in B15:

\* Didn't set warning area when someone are working at high place

\* Workers didn't wear safet goggles when working

\* Work without safety watcher

\* work without work permits.



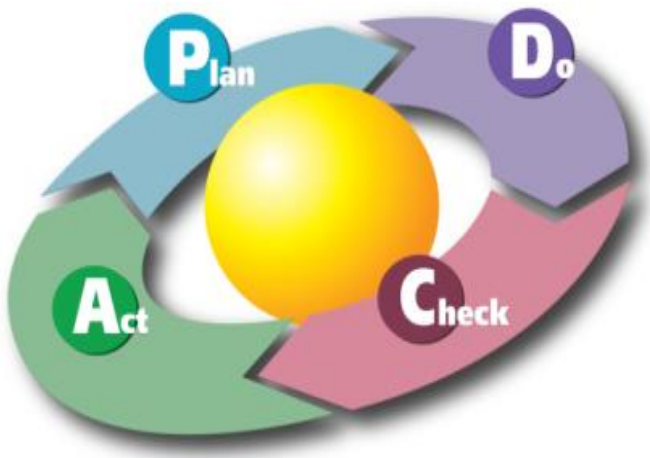
## 安全Safety-EHS action follow up list EHS追踪单

### Implement:

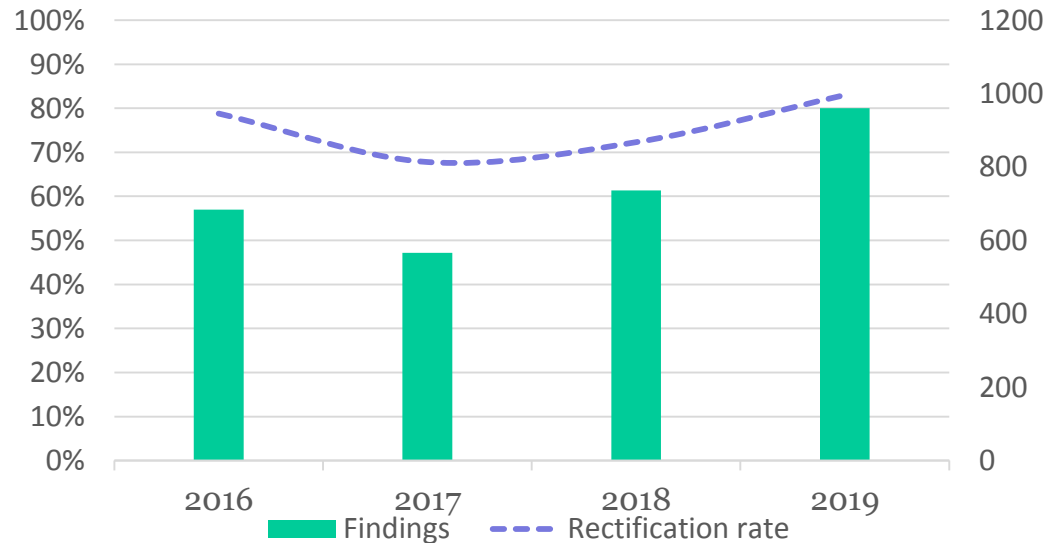
EHS findings from various EHS inspections are put on the follow up list to track.

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

Follow up list reviewed weekly.



### EHS findings and rectification rate





## 安全 Safety-Positive HSE Culture 积极的HSE 文化

In Feb 2015, Toolbox meeting program initiated.  
2015年2月，班组会议成立

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





## □ Competence and general HSE training 能力和HSE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,HSE, 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.
- 新员工培训不等于72小时。

SNF CHINA  
SNF (China) Training Platform

Easy HRO Password

Today's date: 2014-05-09

Information

- 0 New Comer(s)
- 3 The Transferred Employee
- 0 Training Validation Overdue
- 1 Examination Schedule
- 0 Examination Results

Validation

- 0 Position Training Plan Validation

Training Plans

Training Documents

Analysis

Training Center



# 安全 Safety-Positive HSE Culture 积极的HSE 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 HSE and operation skill are recorded.
- 安全环保培训和操作技能培训分数都要记录

培训成绩			
安全考试比分	71.8	车间培训导师评论	
技术考试比分	88.5		
其他			
工作获能			
<p>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。</p> <p>该员工能够作为 <u>丙烯酸胺生产操作工</u> 独立上岗。</p> <p>部门经理 <u>刘政</u></p> <p>日期 <u>2014.4.25</u></p>			
<p>至期间，我 <u>胡荣</u> 参加了岗位培训计划的全部内容。</p> <p>经过培训，我能够作为 <u>丙烯酸胺生产操作工</u> 独立上岗。</p> <p>员工 <u>胡荣</u></p> <p>日期 <u>2014.4.25</u></p>			



# 安全 Safety-Positive HSE Culture 积极的HSE 文化

❑ HSE training is provided monthly and employees and supervisors need to attend. And rate of attending is reviewed as key performance of each departments.

2019年度安全培训计划				
2019	Topics	主题	时长	Attendees
Jan	Major accident video	国内重大事故回顾视频	2 h	1. workshop staff 2. maintenance engineers and technicians
	Safety laws and regulations training	安全法律法规培训		
	Updated SOP training--Hot work permit	程序更新培训--动火证		
Feb	Major accident reviewing and analysing training of 2017	国内重大事故回顾	2 h	1. workshop staff 2. maintenance engineers and technicians 3. QC lab operators
	Plant ERP training	ERP培训		
Mar	Emergency team response, SCBA training and practice	应急小组成员培训; SCBA培训和操作	2 h	emergency team members 1. AM operators, leaders and engineer 2. 05 unloading operators workshop shift team leader and above
	AN hazards and emergency response	丙烯腈危害和应急救援		
	Safety shower, diphoterine, and NORTH eye flusher using	安全淋浴器, 刮鬃剃须, 和NORTH冲洗面液的使用		
	Work permit renewing training	工作许可证培训		
Apr	Fire fighting training (extinguishers)	消防培训之灭火器	2 h	ALL staff
May	Prevent for heat stroke	预防中暑	2 h	1. workshop staff 2. maintenance engineers and technicians 1. workshop staff
	System of responsibility in safe production	安全生产责任制		
	Operation guides and precautions of electrical cart	电动手推车使用方法及注意事项		
Jun	Forklift safety training	叉车安全培训	2 h	forklift drivers
Jul	Dangerous chemical recognize and awareness(GHS) & main dangerous chemical/products specification in SNF plant	危险化学品的辨识; 公司主要危化品和产品详述	2 h	1. workshop staff 2. maintenance engineers and technicians
Aug	Environmental management: solid waste, waste water and housekeeping	环境管理: 固废, 废水和现场整洁	2 h	1. workshop staff 2. maintenance, utility, electrician
	Major accident video	国内重大事故回顾视频		
	PPE training--Hearing and respiratory protection	PPE培训之听力和呼吸防护		
Sep	Ergonomic training--How to protect your back/waist	人体功能学 (如何保护你的背部和腰部)	2 h	1. workshop staff 2. maintenance engineers and technicians 3. QC lab operators
	Occupational health training	职业健康培训		
	SNF alcohol policy	SNF禁烟禁酒规定		
Oct	Risk management, Laws and regulations	风险管理培训; 适用的法律法规培训	2 h	1. workshop staff 2. maintenance engineers and technicians 1. Shift supervisor and engineers of workshops 2. Electrician and electrical engineer
	LOTOs	挂牌上锁培训		
Nov	Slips, Trips, and Falls and ladders	滑倒、摔倒和跌倒; 安全使用梯子	2 h	1. workshop staff 2. maintenance, utility, electrician 3. QC lab operators
	Housekeeping	工作场所的整洁		
	Near miss report	未遂事故报告		
Dec	Major accident review	国内重大事故回顾	2 h	1. workshop staff 2. maintenance, utility, electrician 3. QC lab operators
	PPE training--Body protection	身体防护		



# 安全 Safety- 车间级培训





# 安全 Safety- SCBA 培训







# 安全 Safety-Fire-fighting training 消防操练





# 安全 Safety-HSE team in SNF 爱森HSE 团队

## □ HSE personnel at work site 现场的HSE 人员

- Around 845 employees in SNF Taixing site
- 全厂有845名员工
- 18 people working in HSE department
- 安全环保部门18人





# 环保 Environment: 废物处理 Waste management

Waste is classified, labelled, stored and treated by qualified company. 所有废物分类，贴标签，储存并由有资质的公司处置

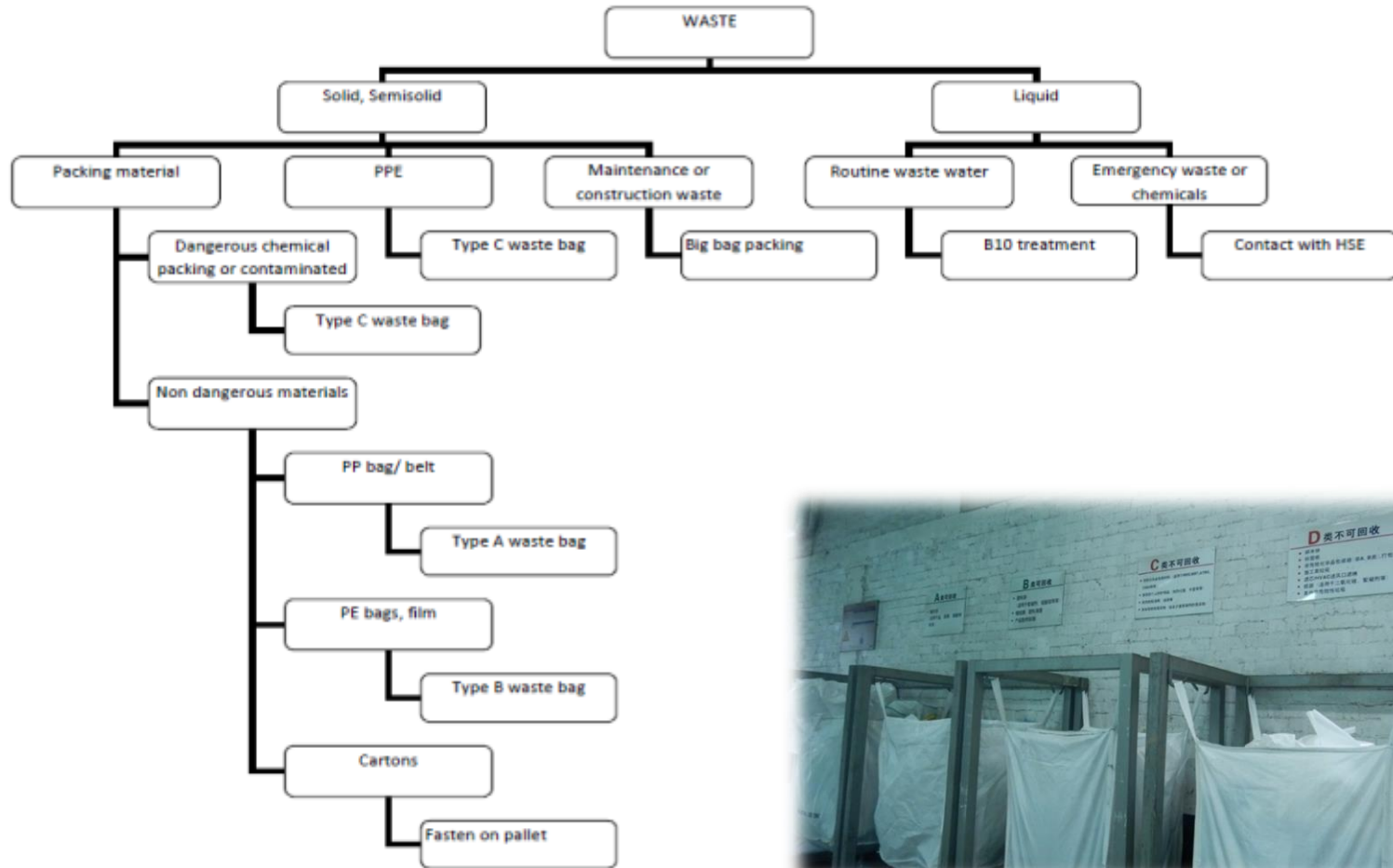
Chemical contaminated waste in different bag  
不同的袋子对应不同的化学品污染的废物

<p>1.</p> <p>被以下化学品污染的样品袋，手套，烧杯，包装袋等...</p> <p>Sample bag, gloves, beaker, packages and so on, contaminated by following chemicals</p> <div data-bbox="227 743 687 872"> </div> <p>对应的垃圾袋 Trash bag:</p> <div data-bbox="200 939 382 1236"> </div> <div data-bbox="465 972 877 1182"> <p>红色塑料垃圾袋 Red Plastic bag</p> </div>	<p>2. 氧化剂 Oxidizer</p> <p>被以下化学品污染的样品袋，手套，烧杯，包装袋等...</p> <p>Sample bag, gloves, beaker, packages and so on, contaminated by following chemicals</p> <div data-bbox="1020 743 1659 872"> </div> <p>对应的垃圾袋 Trash Bag:</p> <div data-bbox="981 939 1163 1236"> </div> <div data-bbox="1257 972 1669 1182"> <p>黄色塑料垃圾袋 Yellow Plastic bag</p> </div>
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# 环保 Environment: 废物处理 Waste management

Normal waste following the chart below 一般废物遵循如下图所示





## 环保 Environment: Build smart hazardous waste management system 智能化危废管理平台建设

According to the latest regulation from TEDA, we plan to modify our hazardous waste warehouse, and connect information to the smart hazardous waste monitoring platform of TEDA.

The modification include:

- Install smart weight scale in HW producing point, warehouse, logistics passageway, and etc.
- Install CCTV in plant entrance, scale point and etc.
- Update existing truck scale: install vehicle license plate recognition system, intelligent barrier controller system, intelligent signal transmitter, and cameras.
- 根据要求对危废仓库进行改造，包括：
  - 产废点、仓库、物流通道等重点监管位置安装智能电子秤
  - 重点点位监控视频
  - 升级改造现有汽车电子地磅包括安装车牌识别系统、智能道闸系统、车辆监控摄像机、称重记录摄像机、智能控制传输仪、人流/物流通道摄像机。



## 环保 Environment: 节能 Save on energy

- ❖ 综合利用是实现固体废物资源化、减量化的最重要的手段之一。在废物进入环境之前，对其加以回收利用，可以大大减轻后续处理的负荷。所以我公司将精馏残渣进行焚烧处理，提取出重金属。此举，废渣中的有价金属是丰富的资源，回收其中金属除了具有直接的经济效益外、还能减轻它们对环境的污染。
  - Comprehensive utilization is one of the most important means to realize the recycling and reducing of solid waste. Before waste enters the environment, conduct recycling, which can significantly reduce the load of subsequent treatment. So our company conducts distillation residue incineration treatment, and extracts metal . Therefore, the valuable metals in the waste residue are rich resource, in addition to the direct economic benefits, recovery of metals also reduce the pollution on environment.
- ❖ 干粉车间用天然气通过热风炉给干燥工序的空气进行加热，秋冬季节大气温度低，热风炉所消耗的天然气的量更大，因此公司计划用蒸汽冷凝水给热风炉进口的空气进行加热，以减少天然气消耗量。
  - Heat the air in the drying process with natural gas through hot blast stove in dry powder plant, atmospheric temperature is low in autumn and winter, the amount of natural gas consumed by hot blast stove are more, so the company plans to use steam condensate water to heat the air in the inlet of hot blast stove to reduce the consumption of natural gas.
- ❖ 利用自产甲醇替换天然气成为公司蒸汽锅炉的燃料。
  - Replace natural gas with self-produced methanol, which becomes the fuel of the company's steam boiler.
- ❖ 未来几年的目标：综合利用，节约能源，并能获得直接经济效益、减轻它们对环境的污染。
- ❖ Objectives over the next few years: comprehensive utilization, energy conservation, and can obtain direct economic benefits, reduce the pollution on environment.

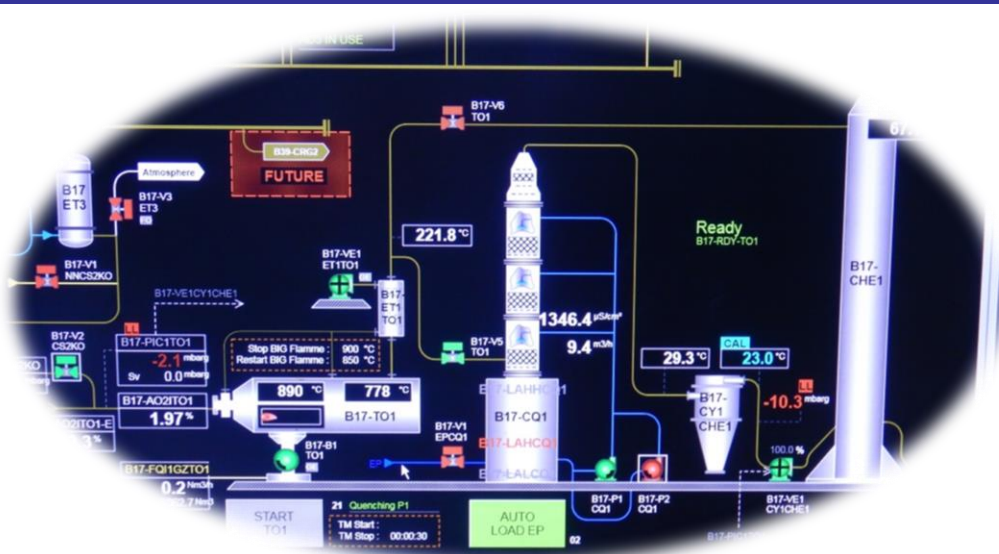


# 环保 Environment: 空气 Air

- ❖ 在有VOC排放（挥发性有机化合物）的排气筒上安装NMHC在线监测（确保尾气达标排放）
- ❖ Install NMHC on-line monitoring (ensure exhaust emission reaches the standard) on exhaust funnel with VOC emission (volatile organic compounds)
- ❖ 对无组织废气进行收集和处理，例如对污水处理设施进行封闭，并增设了低温等离子除臭设备；对固废仓库增设了活性炭气体净化设备，大幅度降低污染物排放。
- ❖ Add the collection and treatment of unorganized exhaust gases, such as the closure of waste water treatment facilities, add low-temperature plasma deodorization equipment, and add the activated carbon gas purification equipment to solid waste warehouse to significantly reduce pollutant emissions.
- ❖ 对现有氧化焚烧的有组织废气进行改造，改为深冷收集和回收利用，大幅度降低VOC排放，符合循环经济的要求。
- ❖ Modify the existing T.O. of organized waste gas, to be collected and recycled through Polaris to reduce VOC emissions greatly, meet the requirements of circular economy.
- ❖ 实施LDAR（泄漏检测与修复）计划，监测设备和管道的泄漏
- ❖ Implement LDAR (leak detection and repair) program to monitor the leakage of equipment and pipelines.
- ❖ 致力于通过改用挥发性较低的油来减少VOC排放，其剂量可大大减少，从而限制了VOC的排放
- ❖ Devoting to reduce VOC emissions by using oils with less volatility, the dosage can be significantly reduced, thus limit VOC emissions
- ❖ 未来几年的目标：努力改善我们的制造工艺，以便到2020年进一步减少对环境的影响
- ❖ Objectives over the next few years: strive to improve our manufacturing processes in order to reduce energy consumption by 2020 further



# 环保Environment-TO在线监测并连接DCS实时跟踪管控







# 环保Environment-泄漏检测与修复(Leak Detection And Repair)



## 爱森絮凝剂（中国）有限公司 泄漏检测与修复（LDAR）体系建设 总结报告



委托单位：爱森絮凝剂（中国）有限公司  
承担单位：江苏天瑞仪器股份有限公司  
编制时间：二〇一七年九月



## 爱森（中国）絮凝剂有限公司 2018年周期性检测报告



委托单位：爱森（中国）絮凝剂有限公司  
承担单位：江苏天瑞仪器股份有限公司  
编制时间：二〇一八年六月



161121341923

## 检测报告

### Test Report

报告编号：TANCE-2019047

委托单位：爱森（中国）絮凝剂有限公司  
项目名称：泄漏检测与修复（LDAR）项目  
(2019年度第一次动静密封检测)  
项目地址：江苏省泰兴市经济开发区滨江北路6号  
检测类别：委托检测  
委托日期：2019年6月19日  
报告日期：2019年7月26日

编制：姜其海 审核：姜坤祥 批准：张

浙江碳策智能技术有限公司

Zhejiang Carbon Strategy Intelligent Technology Co., Ltd

检测单位地址：浙江省宁波市高新区明州北路99号2号楼4楼 邮编：315040  
电话：0574-55833050





# 环保Environment-泄漏检测与修复(Leak Detection And Repair)

In 2019, we finished monitoring for 26321 sealed points , after maintenance, the releasing quantity of VOCs is 2638.90kg/a, and have reduced VOCs emission 1359.50kg/a.



排放量与减排(kg)			
运行部	维修前VOC	维修后VOC	减排量
ADAM	1813.3	951.88	861.41
粉末车间	501.52	501.52	
丙烯酰胺装置	231.19	231.19	
罐区	635.92	518.39	117.53
Dadmac装置	511.61	148.35	363.25
B25	48.6	48.6	
B15	179.7	179.7	
精馏装置装置	76.57	59.26	17.3
合计	3998.4	2638.9	1359.5



# 环保Environment-泄漏检测与修复(Leak Detection And Repair)



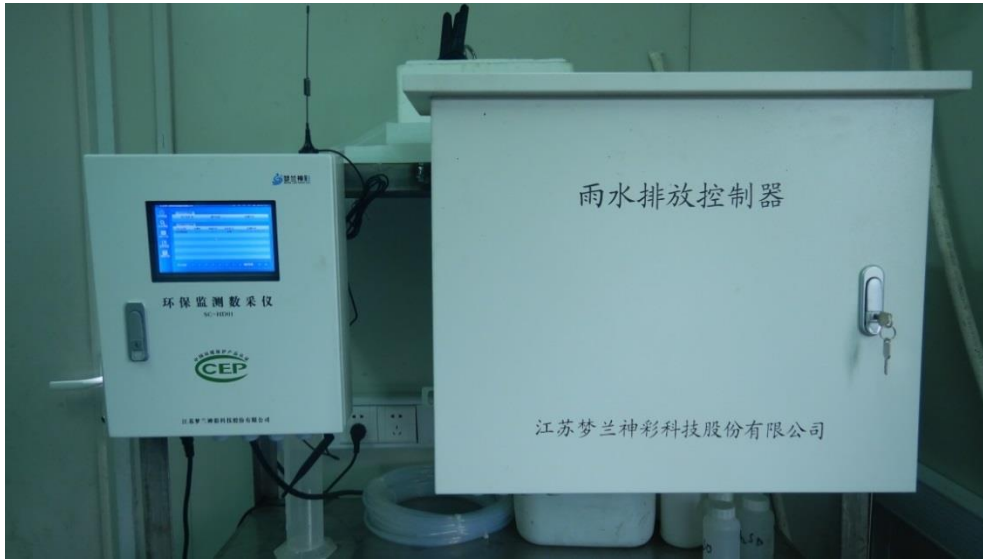


# 环保 Environment: 水 Water

- 多年来，SNF在多项行动中努力减少用水量，如：
- Over many years, SNF strives to reduce water consumption in multiple actions, such as:
  - - 降低能耗（切换产品时采用高压清洁喷嘴对容器进行洗涤，大大的减少用水量和污水量）
  - Reduce energy consumption (adopt high-pressure cleaning nozzles to wash containers when switching products, greatly reduce water consumption and sewage volume)
  - - 淘汰能耗高、处理效率低的DBT三效蒸发装置，增加了母液预热蒸发装置、干燥机等装置，扩建能耗低、效率高的MVR蒸发装置。
  - Eliminate DBT three-effect evaporation device with high energy consumption and low treatment efficiency, increase the mother liquid preheating evaporation device, dryer and other devices, and expand the MVR evaporation device with low energy consumption and high efficiency.
  - - 增加工艺水回收利用，减少污水排放量，响应国家再生利用的号召，符合循环经济的要求。
  - Increase process water recovery and utilization to reduce sewage discharge quantity, it is responding to the national call of regeneration and utilization, meet the requirements of circular economy.
  - - 启用气浮+水解酸化+MSABP的污水处理系统（确保污水达标排放）
  - Start using air flotation + hydrolysis acidification +MSABP sewage treatment system (ensure sewage discharge reaches the standard)
  - -安装在线监控，对污水和雨水的pH，COD和流量进行及时监测和控制（确保雨水和污水达标排放）
  - Install on-line monitoring, conduct monitoring and control of the pH, flowmeter of sewage and rainwater as well as COD timely (ensure that rainwater and sewage discharge reach the standard)
- 未来几年的目标：有效地节约用水。
- Objectives over the next few years: save water effectively.



# 环保Environment-清下水排放在线监测系统





# 环保Environment-初期雨水收集池





# 环保Environment-环保U4污水系统废气经低温等离子+UV光解除臭排放





# 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，并签签名。

-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。

爱森公司商业道德规范章程  
利益冲突

序言

- 爱森公司所有股东约定，爱森公司的所有员工必须按章办事，所以这要求我们每个员工行为举止在某种程度上都必须与这种精神保持一致。
- 尽管支配商业行为的法律比较明确，但潜在的个人利益和相关事务之间的利益冲突总是存在的。
- 所以关于可能引起争议的利益冲突建立相关的法规是非常有用的，商业道德规范章程重申了爱森公司的标准。
- 爱森公司依靠个人的责任感来保证个人和集体的道德行为规范。
- 此章程和适用于每人员工及整个爱森集团公司的普通章程。

可直接向他的上司或总公司的相关管理

从公司的利益出发，  
亲属或亲戚谋取私利。

三方利益，爱森公司员工不得索取

## Charter on Suppliers' Ethics

### 供应商道德章程

Employee  
员工

Commercial Partners  
商业伙伴



SNF does its utmost to choose reliable and ethical commercial partners.

## Zero anti-corruption issue recorded in

### 2019年“零”贪腐事件





## 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 HSE activities
- 推动更多的HSE 活动
- We will recruit more people
- 录用更多的员工