

M1 Health and Safety



SCG SAFETY PRINCIPLES



Safety is our core value

ความปลอดภัยเป็นสิ่งที่เป็นคุณค่าที่สำคัญยิ่งของการทำงาน



Uncompromising safety standards

มาตรฐานความปลอดภัยไม่มีการประนีประนอม



All occupational injuries & illnesses can be prevented

การบาดเจ็บและการเจ็บป่วยจากการทำงานทั้งหมดสามารถป้องกันได้



Safety is a line responsibility and management is responsible for preventing occupational injuries and illnesses

ความปลอดภัยเป็นหน้าที่ความรับผิดชอบโดยตรงตามสายการบริหารงาน และผู้บริหารมีหน้าที่รับผิดชอบ ในการป้องกันการบาดเจ็บและการเจ็บป่วยจากการทำงาน



Employee involvement is essential

การมีส่วนร่วมของพนักงานเป็นสิ่งจำเป็นยิ่ง สำหรับการดำเนินงานเรื่องความปลอดภัย



Lost Time Injury Frequency Rate (Employee/Contractor)

Case per 200,000 Man-hour
0.05/0.06

The Health and safety of our employees and contractors is a priority for SCG and our stakeholders. This matter affects the morale and motivation of more than 100,000 employees and contractors. The accidents that occurred in 2014 injured more than 244 people. Most of them resulted from work related causes (mechanical equipment and falls from height). As for the accidents that have caused death, the majority involved fleet traffic. Therefore, it can be concluded that SCG must intensify efforts to accidents on sight deaths as well as from transport and traffic related.

SCG has established policies for safety and occupational health, as well as clear safety management structures at all levels. In addition, SCG has also created an operating framework and guidelines for the management of occupational health and safety (SCG Safety Framework) so that each company can adapt and use this to sustain our health management system, based on the TIS / OHSAS 18001 safety standard. Furthermore, SCG encourages our employees, contractors and the community to participate in raising the standards of safety in the work place. This is because SCG

has an aim of becoming a sustainable "Injury and illness free workplace".

SCG has set the legal SHE Committee structure for each plant. The committee consists of employees from senior management level and operation level at the same ratio with the purpose of creating a platform for regular discussion and creating involvement in improvement of our safety management system.

Due to the variety and diversity of the industry related to each company, SCG has allowed each business or company to manage its own risks according to the concerns of stakeholders. The details are as follows:

SCG Cement-Building Materials

The most significant risks of SCG Cement-Building Materials are :

1) The hazard from working with machinery and falling from height. The cause of accidents can be divided into two parts: the condition of equipment and unsafe behavior of the workers. The business has set up a standard procedure for safe machinery operation, covering all machine types and risks and to improve safety of working conditions. This is done by encouraging employees and business partners to get involved in exploring various risks and applying foolproof concept

to reduce risk of exposure to moving machine, pivot, hazardous chemicals, and working at height.

In addition, the business also aims to create and cultivate the habit of working safely to consumers, employees and contractors, through the implementation of safety observation and the cultivation of safe behavior (Behavior Based Safety) in the factory. SCG has set the indicators of success, which are Leading Key Performance Indicators (KPIs) or Key Activities Indicators (KAIs), for executives, supervisors, employees and contractors to be a part of the implementation. This action decreased the accidents caused by working with machinery by 50 percent from the year before.

2) Transportation and road accidents, SCG Logistics apart from the establishment of the Skills Development School, for training of 12,919 drivers in 2014 to the total of 30,842 drivers so that they are aware and possess the skills to drive safely, the company also offers rest areas for each route as well as monitoring and control equipment (Logistic Command Center) to monitor and control the vehicles at all times. In 2014, various projects were initiated to reduce accident risks as follows:

“

Saving our employees from danger is equivalent to saving their family. That is why we set the highest standard and goals for safety and the issue of safety is uncompromising.

”

Pichit Maipoom | President
SCG Cement-Building Materials



- In Cab Coaching project: The training of more than 1,987 high-risk drivers to enhance their skills and attitude toward safe driving through group trainers.

- In Cab Camera project: The random installation of video cameras in the front of the vehicles of more than 1,245 high-risk carriers in order to observe their driving behavior and give warnings of unsafe driving.

- Delivery Plan project: The creation of a security database on the transportation routes to identify specific points that might be dangerous and appropriate rest areas so that the drivers can be informed and become careful when entering dangerous zones. This has been completed for 19 main routes.

Although the results of our efforts have reduced fatal accidents in fleet carriers and third-party by 50 percent, the goal of 'Sustainable Transportation Safety' is still the driving force for SCG Logistics to continue to find new ways to reduce accidents in the future.

To expand the body of knowledge in the managing road safety to outside organizations, SCG has worked with the Road Safety Group of Thailand, Thailand Road Safety Network, Thai Roads Foundation and Thailand Development Research Institute (TDRI) to initiate a project called 'Road Safety for Community' with the objective of establishing standards for road safety in the pilot areas and creating engagement with community, local government, state government and alliances to jointly build a culture of safe driving and safe communities. The committee has divided the project into two parts as follows:

- Community development together with the Thailand Road Safety Network to by educate the pilot communities regarding the management of the risk and communication with the responsible agencies for improvement in 7 communities of the area, which are at

Tharua, Phra Nakhon Sri Ayutthaya Province as well as at Kaeng Khoi and Baan Mho, Saraburi province.

- Risk management and the creation of an accident database together with the Thai Roads Foundation in order to explore and define the risks on the pilot routes that should be resolved, especially the four main routes that are used to transport cargo and coal for the company.

This was to ensure that transport routes used by SCG would focus on safety of the community and those who used the roads before applying the results and solutions to other nearby areas.

SCG Chemicals

Fire accidents, chemical spills and explosions in the manufacturing process are the main risks that cause concern for the communities surrounding the industrial estate and are unacceptable for the company itself. Therefore, since 2014, SCG Chemicals have hired professional companies to do Quantitative Risk Analysis for Worst Case Scenarios in order to improve and develop the production process, the monitoring process and the process of safety management as a whole. In addition, this also included the development of experts within the organization to be able to identify unknown hazards, understand the dangers and control the risks in 2 pilot companies before extending this to other companies. As a result, in 2014, accidents related to the production process were reduced by more than 50%.

For health risks that may result from exposure to hazardous chemicals in the manufacturing process and may affect the health of the workers directly, SCG Chemicals has collaborated with the Faculty of Public Health, Mahidol University in order to develop

a management process of industrial hygiene by using the International Labor Organization Occupational Safety & Health Management System, ILO OSHMS 2001) as a guideline. The results of operations can be grouped into employees who are exposed similarly (Similar Exposure Group: SEG), the level of exposure (Exposure Rating) of employees in each risk factor, and an assessment of the health risk of individuals (Individual Health Risk Assessment: HRA) in order to prioritize the level of risk, which is useful in determining measures to reduce it or control it to an acceptable level.

The risk level of HRA has also been used as a guideline to consider measures to control exposed risks from work through medical surveillance, such as the annual

health check-up and biological monitoring of exposure, which has led to employees' disease control within the working area. As for assessing the health risks of the employees, the guidelines from the International Council for Good Practice Guidance on Occupational Health Risk Assessment and the American Conference of Governmental Industrial Hygienists (ACGIH) were implemented in order to assess the health risks of the employees and prioritize the Risk Level to contribute to the formulation of measures to reduce and control risks as well as correctly monitor their health. SCG Chemicals believes that its systems and implementation will sustainably reduce health risks for its employees and contractors.



“

The investment in safety is a 'Must' and it should be emphasized evenly to all the factories. Senior staffs are responsible for initiating and developing safety practices and overseas safety of their subordinates.

”

**Cholanat
Yanaranop**

President
SCG Chemicals

SCG Paper

Occupational health and safety risks in SCG Paper can be divided into two main categories, which are accidents from machinery and the risks of fire. Regarding the control of risks from the machinery, the paper business aims to encourage employees and business partners to adopt the Karakuri Kaizen guidelines and apply the No Touch based approach to maintenance, or Total Productive Maintenance (TPM), in order to improve the condition of the machinery and how it works. This not only helped to optimize production but also reduced the risk of exposure to machinery in the various hazardous areas as well as jointly raising standards in safety management of business processes through Safety Best Practice Sharing, which enables each company to learn and develop even further in order to achieve a sustainable safe and secure environment. In addition,

this also requires employees in each level to engage in a continuous safe observation so that management could demonstrate its leadership in the safety issue and set a good example for the employees to follow.

Regarding fire risks in 2014, there was a fire in a pile of recycled materials. Although this did not directly impact the corporate's business or image, it directly affected the confidence of the community around the factory. Hence, the paper business focused on the process safety management system and adapted it for use in its plant through restructuring the administration; adding security to take responsibility; and adding teams to reassess the security systems fire control, assess equipment and the emergency team in order to regain the confidence of the community.

“

Believing that employees are the most valuable asset to the organization, we commit to continuously promoting safety awareness not only in the workplace. Once employees believe and see the benefits, they will be motivated to urge family members and others behave safely.

”

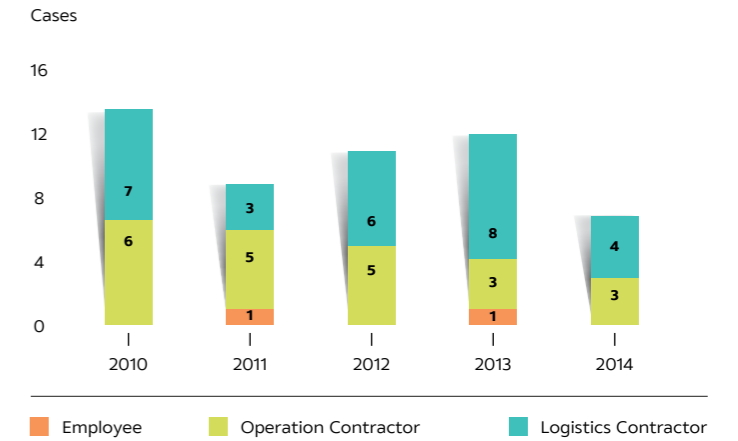


Roongrote Rangsiyopash | President SCG Paper

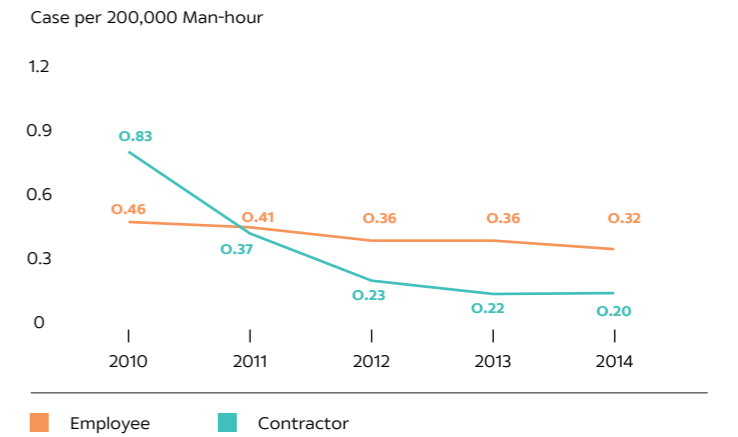
As a result of the above operations, accidents at SCG decreased from the previous year, with no deaths in 2014. The Safety Performance Assessment Programme (SPAP) has been used to assess the efficiency and effectiveness of the reduction and control of risks on occupational health and safety of the individual companies or factories for more than 10 years. SCG has set targets for all its factories to achieve at least 'Succeeding' or level 4 on the occupational health and safety level, which is higher than the general factory safety standards. In 2014, There are 17 factories passed the evaluation of SPAP level 4 which is more than 20 percent of the total number of plants that must be assessed.

SCG Accident Record

Fatality



Total Accident Rate



Lost Time Injury Frequency Rate

