

THE SAFETY OF PRODUCTION IN SALT MINE

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"Safety production" is not a simply warning. The essence of safety production process is to cherish and care life. It also advocated the harmony between man and nature, promoted the civilization and progress of enterprise and created good journey with harmony, health, the better home.

The Yinhai salt industry Co., Ltd. located in Hongqiao Industrial Park within Bazhou Luntai county of Xinjiang is one such state-holding enterprise. Then, the how did a hand-workshop of forty years ago develop into a company with how to become a modern company with total assets of 8 million and annual sales revenues more than a thousand million.

On the one hand, the new board of directors of company attaches importance to the strengthening of organization lead of safety production, clear division of the members of leading group, at the same time, strengthening the team building in workshop. In accordance with the requirements and the existed problems, established and improved the organization of the production workshop, set up a workshop director, a deputy director and three section chiefs. The employees with work experience and management capabilities were promoted into the management position. Which completely changed the phenomenon of non-standard management, unclear responsibility, and lax in discipline.

On the other hand, the safety in production was included into the company's top priority. The activity such as "safe production month", "hidden problems resolving year" "in safety activities" were taken as opportunities to implement various measures, establish the concept of "safe

development". The safety in production was taken as the central task and the main body of production responsibility was strengthened. Effort was exerted to transform and eliminate the old "hidden works." in view of the company's security risks, Increased the funding for production safety work, and total investment was up to 100 million yuan. The monitoring and conveyor system for production safety were installed, Forklift and loaders were purchased, the water was accessed, it solved the security risks and improved productivity.

In the process of technical transformation, about 10 techniques, working procedures and facilities were innovated to improve the quality, yield, and the level of mechanization and automation of salt production. The dustproof system had also been altered to strictly control the dust emissions, dust purification, which improved the working environment. Since 2008, the company had attached great importance to the neatening of plant environment and security, 2 million was invested to restructure the yard, plant roads and gate, the company had taken on a new look. The practice of last two years has indicated that the reform of the system had brought the vitality and institutional innovation had instilled dynamic into the enterprise.

Security, harmony, civilization and development have become our subject to step into success. Establishing and improving the safety and responsibility system which take the Legal representative as the central, decomposing the security and responsibility grade by grade into the respective workshops, team and position

and signed the liability letter of target management responsibility assessment of safety production, the safety responsibility were distributed into specific personnel, established the linkage at all levels and generated a complexion that the whole people *participated* and exerted effort together.

The safety officers were granted of certain rights. In the face of any bad habits, practices, they should correct it without any mercy. Who should not take care of sensibilities, indulge an objective, avoid problems and cover up the problem. Over the past few years, our Security workers always took the scientific and reasonable safety regulations as a yardstick, brought forward the rational suggestions or advices timely. Improved and perfected the rules and regulations; The 5S management mode was explored and implemented actively, Plans for emergencies were developed and each section of the process were detailed. We persisted in using the system to control the persons and events, created a good atmosphere of ensuring safety by regulations and ensuring the life by security, strived to lay a solid foundation for a safe working of salt mine.

Safety management has told us that the ratio of serious injury, minor injuries and the accidents without harm is 1:29:300. That is to say that among 330 similar accidents, 300 cases causing no injury, 29 cases causing minor injuries, along with 1 case causing serious injury. In view of this, a small mistake, a little neglect may be fatal; a paralysis of negligence may bring their loved ones with endless grief and the enterprise with a huge business losses.

DuPont of the United States had made a statistical analysis of the security accident: there will be a accident for every 100 negligence or mistakes, and there will be a malignant for every 100 accidents. In DuPont, from repairing a lock to changing a light bulb, there are very strict procedures and control. In the corridor, running isn't permitted unless the emerging of emergency situation; adhering to the thinking mode of "slow is fast", so that each employee almost form a conditioned reflex to the security.

Except for the insight into the development law of objective things, we are also good at seizing the above-mentioned examples, making full use of trade union organizations and educate the employee by the way of holding general meetings of

workers. Dealing strictly with the persons and things violating the provisions of safety in production, attaching great importance to the security at all times, and guide the implementation of staff rules and regulations to be a conscious act, firmly establishing the idea of the "people-oriented, safety and prevention first". At the same time, together with the safety education and accident lessons, we explained the importance of plugging the "loophole" and elimination of risk, so that they can profoundly and comprehensively understand its meaning and significance. we should possess the courage to face up to the weak in the process of management, resolve the emotion of conflict of individual staff members. Any small cases impacting the safety of the company were discussed at large and small conference every day, the atmosphere of "safety first" has become a common practice here, and now every workers take factory as their home, pay attention to safety, treat their small case of safety in production really and seriously, correct the bad habit of work, thereby create a good situation of safety in production, safety and stability, harmony between man and nature.

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SALT CHEMICAL PRODUCTION

The production of salt chemicals is a complex process involving the extraction of raw materials, purification, and chemical reactions. The primary raw material is sodium chloride, which is typically obtained from underground brine deposits or sea water. The extraction process involves pumping brine to the surface and then evaporating the water to leave behind salt crystals.

Once the salt is extracted, it must be purified to remove impurities that could interfere with subsequent chemical reactions. This is typically done by dissolving the salt in water and then filtering out any insoluble impurities. The purified salt is then dried and stored for use in chemical production.

The next step in the process is the chemical reaction of the purified salt with other chemicals to produce the desired salt chemical. For example, sodium chloride can be reacted with sulfuric acid to produce sodium sulfate, a common industrial chemical. This reaction is typically carried out in a large, heated reactor where the salt and acid are mixed and stirred. The resulting mixture is then cooled and crystallized to produce the final product.

Another common salt chemical is sodium hydroxide, which is produced by reacting sodium chloride with calcium hydroxide. This reaction is typically carried out in a large, heated reactor where the salt and hydroxide are mixed and stirred. The resulting mixture is then cooled and crystallized to produce the final product. Sodium hydroxide is a widely used industrial chemical, particularly in the pulp and paper industry.

The production of salt chemicals is a highly regulated industry, with strict safety and environmental standards. The use of hazardous chemicals and the potential for large-scale accidents require careful planning and oversight. Additionally, the industry is subject to strict environmental regulations, particularly regarding the disposal of waste and the protection of water resources.