

Safety Equipment Management Strategy of Huanghua Port

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Abstract: Through strengthening the safety equipment management, Shenhua Huanghua Port Company aims to promote the sound development of the port.

Key words: maintenance; management; security

Shenhua Huanghua Port Company locates at the center of Bohai economic circle, 90 km to the east of Hebei province, the southwest bank of the Bohai Bay, it is adjacent to Beijing and Tianjin on the north, next to Qilu on the south, it is not only the channel access to the sea of Shenfu Dongsheng Coalfield--- China's the largest coal field, but also the most convenient access to the sea of North China, Northwest, and other inland areas. Huanghua port has a vast economic hinterland, its direct economic central areas include Hebei, Shanxi, Inner Mongolia, Shanxi, Ningxia etc, and the northern region of Shandong Province, it is rich in natural resources, and has strong momentum in economic development. As the project

corporation of Huanghua Port, Shenhua Huanghua Port Co., Ltd is responsible for the development, construction and operation of Huanghua Port. The company was jointly set up by the Shenhua Group Co., Ltd and Hebei Construction Investment Company in March, 1997; Its current shareholders are China Shenhua Energy Company Limited and Hebei Province Construction Investment Company. Since its operation, the Huanghua Port Company has given a full play to its unique advantages of Shenhua coal mines, railways, ports, power plants, coal oil business, and guarantee the leap-forward development of the Huanghua Port.

As the most one-time investment and the largest engineering project in the history of China's port construction, the construction of Huanghua Port attracts great attention, it has been written in the 14th National Congress Report as a cross-century project. The project was approved by the State Council in September 1992 and began on November 25, 1997. During this period,

the party and state leaders, as well as the relevant ministries of the central works of the building all gave great concern to it, came to Huanghua Port to check and give the guidance, and gave great support to the production and construction of the port.

Huanghua Port now owns three coal terminals, a general cargo terminal, the liquid chemical terminal, 10 productive berths, has the design of coal handling capacity of 65,000,000 tons, the annual coal capacity has reached 80,000,000 tons, groceries and liquid chemicals 1,600,000 tons. The operating routes cover from China's east and south, Taiwan, as well as Japan, South Korea and some countries in Southeast Asia.

Huanghua port considers Shenhua coal shipments as its main business, and has always maintained an annual coal throughput growing at a speed of 10,000,000 tons. In 2002, the first year of Huanghua Port goes into services, its throughput breaks 10,000,000 tons, that year the throughput reach to 16,530,000 tons, and meet 55% of the design capacity, ranks among the domestic large ports. In 2003, the Huanghua Port throughput reached 31,160,000 tons, create a sharp rise of the fastest production record, it was brought

forward 11 years and 5 years than the second and fourth phase of Qinhuangdao Port coal. In 2004, Huanghua Port completed the throughput 45,430,000 tons, 45% more than the previous year. In 2005, the throughput reached 67,080,000 tons, the port achieved a throughput capacity of 20,000,000 tons which create a new production record again. 80,650,000 tons completed in 2006. In 2007, the port's handling capacity reached 82,820,000 tons, Huanghua port has achieved the coal throughput bounds of 10,000,000 tons, 2-year in a row breakthrough 80,000,000 tons.

The company has won national awards on May 1 Labor, the outstanding coal units of the National Environmental Protection, five consecutive years contest winner enterprises of the national "Ankang Cup", Chinese enterprises information technology benchmarking and become the 500 topped companies. Since the seven years of its operation, the Huanghua Port grows rapidly in this salinity known as grass-inch-long. It realized the pioneering work as the shortest time, fastest speed and best operating

efficiency in the domestic industry, its first-class safety management of the equipment philosophy is the strong cornerstone of this miracle.

1. Pay special attention to the basis, overall situation, raise the comprehensive level of the management of port security.

Seek for greater perfection, pay attention to details, improve from the minors, lay a solid foundation from every little bit. Since the operation of Huanghua equipment, we have learned some profound lesson from some major accidents of enterprise management which lead by neglecting the details; we consider the security management details as an important work to enhance the management level. Particularly for some details of the management, develop deeply special treatment of disordering the line to all kinds of chaos then, put an end to all kinds of pipes, valves, oil-water equipment bolding and leaking, so that the 14,067 valves, 17,300 m water tank, 750 fire wash

tanks have no leakage phenomenon ; eliminate the phenomenon of the oil spill for 30 large machines, 52 hydraulic station, 927 reducer, 123 vehicles; 1102 sockets are on the wall, the power lines of 474 computers, 974 connection boxes are all laid with wire chase, all of these put an end to the line chaos, thereby eliminate the existence of security risks.

Innovate bravely; introduce advanced management system to ensure the safety of building a stronger network protection. ISO9001 Quality Management System, ISO14001 Environmental Management System and OSHMS18001 occupational health and safety management system are the current international and domestic modern safety management models, it is a set of systematic, procedural and at the same time have a high degree of self-discipline, self-improvement mechanisms of scientific management system. The company attaches great importance to the implementing standards certification system and

combine with the quality and safety standardization, build the safety standardization of the quality to a new level. Through the joint efforts of various departments, in July 2005, we one-time pass through three Standards certification systems, and achieved the integration with international advanced management system; it has added the weight for achieving long-term stability and lays a solid foundation of the further safety management of the company.

2. Focus on technical innovation and management, rely on scientific and technological progress to promote safe production

Establish and implement the scientific concept of development, embody them in the production safety work is to always adhere to the "people-oriented, safety first" , make the enterprise development base on worker safety and effective protection of the Occupational Safety and Health, promote the safe production of scientific and technological progress, achieve safe

production and the synchronization of economic and social development. Actively promoting the progress of science and technology is an important guarantee of realization of the port security.

We adhere to the "Security flourishing with science and technology" principle, vigorously promote technological innovation and rely on scientific and technological progress to improve equipment safety. In recent years, leading majors in the companies involved in this program, they organized to settle the control network, tipper hydraulic system, 0# reclaimer transformation, slip transform extinguishers on board aircraft, loading machine vibration transformation etc. and a number of large-scale transformations of technical problems. Cadres and workers work together and bring about the investigation and rectification of equipment hidden dangers, and has achieved remarkable success, port equipment in good

condition always maintained at the rate of 97%, ensure our annual production of the successful completion of the mission.

We strive to seek a breakthrough in equipment management. In order to lower the safety problems in equipment operation, we change passive repair to prevention, according to the production, carry out preventive maintenance and equipment maintenance according the plan. The company increased the unit's equipment operation inspection, appraisal, and reward the good and fines the bad. To manage well the equipment assets, we launched a comprehensive EAM system in May 2005 to work alone as the core, achieved the equipment assets from the selection, purchase, maintenance, usage to scrap, the whole process of life-cycle management effectively increased the rate of equipment in good condition.

We actively promote the speed of enterprise informatization. Based on the further improvement of the OA, EAM, MIS systems, we completed a dynamic

monitoring system for monitoring all aspects of the production at any time, it reflects the operation of the equipment, so that to ensure all equipment has always been under control; we implement the dynamic monitoring system for ships at sea, carry our the monitoring through DGPS and AIS on ships at sea in a timely manner, and provide timely and accurate navigation information to ensure the safety of the ship in and out. With the pace of information construction accelerating, port security management was brought to a new level, the unsafe condition of human behavior and unsafe equipment have been effectively controlled.

3. Pay attention to the training, reorganization, and improve the safety awareness

The good production safety is the specific requirements of advanced productive forces, it is also a concrete manifestation of the culture, but also the overwhelming majority of the workers in line with the fundamental interests of the masses. Security issues is not just a

department or an individual, it is a major political problem for the relationship between social stability and well-being of workers, the whole relationship between the port and the image of the fate. Only the truly "all talk about security, talk about security matters," we can achieve the real nature of the construction of the port-based security. We have always done a good job for the management, technical personnel and workforce training, to enhance the market economy system adaptability and competitiveness by improving the quality of personnel. Huanghua Port Corporation has a variety of large-scale equipment, most of which are imported equipment with high degree of automation, advanced technical performance and more complex operations. In order to ensure the well maintenance and efficiency of the large port facilities in the use of normal play, first of all, we select those skilled workers with strong sense of responsibility through every level to use and maintain the equipment, and then, we will take technical training as an important task. In the implementation of the project's feasibility stage, we

determine that the number of equipment operators will be 1-2, they will take part in the investigation, inspection, verification process, this process is the first phase of the operator, the operators will have basic understanding of the preliminary properties the equipment. The installation of equipment is the second training stage, through this phase the operators will get a comprehensive understanding of independent operation and maintenance. In the subsequent period, operators have to read the requirements, maintenance manuals, comprehensively understand its performance, strengthen the actual operation combined with the practical analysis, recorded the problems at any time for resolving. After the operators mastering the operating procedures proficiently, contact the manufacturer or the certain a unit to begin the third stage of training, this phase of the training is to solve some problems appear in the process of independent use, the maintenance of equipment and some of the skills for a more in-depth study.

After the three stages of training, the operators are able to achieve an independent operation of the equipment,

we also provide the operator with more learning opportunities to improve, sending them to participate exchange meeting of equipment, technical seminars etc, so that they can continue to expand new vision, increase new knowledge and master new skills, these practices played an important role for port equipment maintenance and new features developing of the equipment.

4. Focus on the cadres and responsibility, implement the security work from system and style

We have made clear that "the security must be accompanied by cadres' team construction", change the style of cadres, and enhance their safety awareness, take these as an important means. Start with strengthening the cadres' security responsibility, focus on improving the sense of responsibility and urgency of the cadres: First, clearly proposed one-vote veto rule, establish the cadres security file, once a major security accident happens in the departments or units, the immediate abolition of cadres Promotion, award

eligibility will accompany. Second, the safety indicators will be included in the performance of cadres, production and management accountability, evaluation system for the building of spiritual civilization. Third, top-down layers have signed a responsibility for safety production-like to carry out the implementation of the security responsibility, so that the political life of the cadres and the economic benefits are closely linked with the security production.

The leading bodies in the company set an example, insist an in-depth research and grass-roots guide to the company's safety work. The leaders of the grass-roots units also carry out high command, resolve and reform the problems existing in the process in a timely manner, all of this ensure the safety of production.

5. Focus on the inspection, implement, and deepen the safety management gradually.

Premier Wen Jiabao once pointed out: There are many reasons for frequent

accidents; the main reason is the safety measures are not carried out. In order to promise the safety production, progress the safety work deeply, we have to pay great attention to the inspection and supervision of the project. We have always implemented the safety check and measures as an important part of day-to-day work, put an end to levels attenuator of the safety management, and the phenomenon of discounting. Members of the security units mobilize all the security staff to carry out self-examination and self-correction activities, eradicate the signs of accidents in the bud and give full play to the role of the security business. Through a rigorous assessment inspection, the safety awareness of all employees have been improved, all of these maintain the good situation of port security production.

Through a series of work, Huanghua Port has maintained a healthy and good development trend; some achievements are also made in the production of port security, technology management. But we are not satisfied with the status quo, we will consider the World Assembly as our driving force, seriously study and learn the experience of advanced units, and constantly improve the management and maintenance level of the equipment.

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