

عنوان مقاله:

Research Paper : The Impact of Safety Programs on Accident Indicators in a Combined Cycle Power Plant

محل انتشار:

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خلاصه مقاله:

Background : Nowadays, safety management plans have an effective role in reducing the incidence of accidents. Therefore, this study aimed at investigating the role of safety management systems on accidents and the status of safety performance indicators in a combined cycle power plant in ۲۰۱۱. Materials and Methods: This descriptive-analytical research was carried out in two stages in all Yazd Combined Cycle Power Plant units on accident victims from ۲۰۰۴-۲۰۱۱, based on the documentation of the previous years and using census sampling. The Accident Frequency Rate (AFR), Accident Severity Rate (ASR), and Frequency Severity Rate (FSI) indices were derived from the OSHA standard using the formulas and data obtained from the completed questionnaires and interviews with the people. Results: The total number of accidents was ۲۸۷ cases through the studied period (۸ years). The results showed a significant relationship between age and work experience, as well as between age and marital status. The main causes of accidents were unsafe acts. The lowest level of personal protective equipment was used in ۲۰۰۴ (۱۵.۳%), whereas the highest rate was used in ۲۰۱۱ (۳۰%). After the implementation of the Integrated Management Systems (IMSs), accident indicators showed a decreasing trend regarding the washing time. Also, the amount of AFR, ASR and FSI indices of the accidents in terms of work shift indicated a significant decrease in ۲۰۰۴ than after the implementation of the safety management systems. Conclusion : According to the results, due to the positive impact of safety programs (IMS), incident indicators had a downward trend and unsafe acts were decreased.

کلمات کلیدی:

Management, Safety, Accident indices, Occupational accidents

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