

عنوان مقاله:

Investigating the Causes of the Incidents and Monitoring the Safety System before and after the Implementation of OHSAS 18001 in a Combined Cycle Power Plant

محل انتشار:

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خلاصه مقاله:

Background: In order to protect human resources, health and safety management systems such as OHSAS 18001, which is based on prevention, are necessary in projects. Therefore, the present study analyzes the incidents and evaluates the monitoring safety performance indicators based on work experience before and after the implementation of OHSAS 1800. Methods: This descriptive analytical study was performed on all incident victims during 2004 to 2011 at Yazd Combined Cycle Power Plant by census method. Data were extracted from the incident report checklists as well as technical protection committee documents of the plant. The AFR, ASR, FSI, FR, and IR indices were calculated based on OSHA standard before and after the implementation of OHSAS 18001. Descriptive statistics, Kolmogorov-Smirnov and Chi-square were used for data analysis. Meanwhile, the significance level was considered equal to 0.05. Results: 287 work-related incidents occurred during an 8-year period (2004-2011). The 44.9% of incidences (n=129) were reported in the age group under 30 years and the lowest incidence rate was observed in the age group over 50. 97% of the incidents were reported in men while 2.8% of the incidents were reported in women. According to the results, there was a significant relationship between age and work experience as well as age and marital status. There was also a significant decrease in the indices in the years after the implementation of OHSAS 18001. Conclusion: The results showed that the implementation of safety systems and deployment of OHSAS 18001 has reduced the incident indices based on work experience. Therefore, health and safety management systems are suitable tools for reducing incident rates and incident indices are also appropriate for monitoring the safety performance.

کلمات کلیدی:

OHSAS 18001, Occupational accident, Incident indices

لینک ثابت مقاله در پایگاه سیویلیکا:

