

عنوان مقاله:

Conducting a Water Safety Plan (WSP) Relied on WHO Recommendations for the Assessment of Qom Desalinated Water Supply System

محل انتشار:

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خلاصه مقاله:

This work aimed to apply the water safety plan (WSP), a plan suggested by the World Health Organization (WHO), to evaluate desalinated water supply system in Qom province of Iran, assisting a systematic prevention approach based on risk assessment. Major portion of Qom drinking water is supplied by an integrated membrane-based desalination system through a private water network. WSP includes ۱۲ phases comprising chapters like "System Description", "Hazard Identification", and "Risk Assessment". The abovementioned phases were conducted according to filled checklists which finally served as the input data for WSP software, namely WSP QA Tool. The processed information by the software attributed to each step was presented finally as appropriate tables and histograms. Total score obtained for Qom desalinated water supply system via WSP was ۳۰۲ whereas, the full obtainable score considered in WSP was ۴۴۰. Accordingly, ۶۸.۶% of the total WSP obtainable scores was acquired. The scores achieved in steps "catchment", "treatment", "distribution", and "point of use" were ۶۷%, ۶۷%, ۶۴%, and ۶۵%, respectively. The minimum obtained score was ۲۵% assigned to the step "Improvement Plan". The maximum scores were ۱۰۰% and ۹۷% attributed to "Identification of Stakeholders" and "Hazard Identification and Risk Assessment", respectively. The score of ۶۸.۶% from WSP was achieved by Qom desalinated water supply system. The step "Improvement Plan" should be performed simultaneously with the entire WSP to improve the coordination for better enforcement of the plan. To enhance the current condition, the funding demands assigned to each uncontrolled risk which is attributed to each .improvement program must be supplied, ranked, and enforced

کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا:

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