

**OIL SPILL EFFECTS ON THE SEAWATER DESALINATION PLANTS,
EXPERIENCES FROM PERSIAN GULF TO GULF OF MEXICO**

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Seawater desalination plants are considered as the major source of water resource in the littoral countries around the Persian Gulf. Persian Gulf and Gulf of Mexico are both renowned for their oil extraction and transportation activities. However, both of the gulfs have experienced many oil spill events which subsequently have caused many negative impacts on the coastal lives. Meanwhile, seawater desalination plants are among those onshore facilities which could be very much affected by offshore oil spills. Here is an investigation on the mitigation methods for maintaining the proper operation of desalination plants during the oil spill events and also introducing some pretreatment processes to guarantee the sound operation of these plants while encountering the oil spills. The processes are mainly based on Persian Gulf experiences which could be adopted for international waterways especially, the Gulf of Mexico.

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