

## Management of industrial wastewater ocean discharge in Korea

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In August 2016, Korean press media released the news highlighting the discharge of hazardous chemicals from power plant into surface waters of the sea in Ulsan area. The power plant used antifoaming agent which contains hazardous substance (dimethylpolysiloxane) to reduce the formation of foam for cooling system. Ministry of Maritime Affairs and Fisheries in Korea announced that the plant violated the law (Marine Environment Management) because dimethylpolysiloxane (PDMS) is a prohibited substance to discharge into the sea as a Noxious Liquid Substance by MARPOL 73/78. However, there is no standard to

apply as a noxious liquid substance and no one knows the power plant is in the scope of marine facilities of that law. ME (Ministry of Environment) and MOTIE (Ministry of Trade, Industry and Energy) argued, it is uncertain how to discharge and there is no standards to apply. In this reason, MOTIE and KITECH started feasibility study research of the regulations. This follow up study investigated how to treat and discharge wastewater containing hazardous chemicals from a facility, especially, power plants and companies in shore line. The primary objective is to find a reasonable method to make standards related in discharging industrial wastewater.