

RADIATION SAFETY ASPECTS
IN THE OIL AND GAS PRODUCTION FACILITIES IN EGYPT

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ABSTRACT

The applications of radiation sources of various types in the oil and gas industry became an essential part in the production and expansion programmes in the production companies. Among these applications, oil well logging with gamma and neutron sources and tube weld radiography with gamma sources are well known.

On the other hand, naturally - occurring radioactive materials (NORM) have been detected in varying concentrations in hydrocarbon reservoirs in different areas of the world. Such materials may induce radioactive scales, sludges or gases in the production lines.

In this report, radiation safety guidelines are proposed to be implemented in the oil and gas production facilities in Egypt.

These guidelines are based mainly on the international safety standards such as the ICRP recommendations as well as the guidelines set by other countries of well recognized radiological health practices such as USA, UK and European Community.