

SOME PROBLEMS OF ORGANIZING A SUPERVISION SYSTEM FOR RADIATION PRODUCING MACHINES IN A SMALL COUNTRY (ISRAEL)

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Abstract—Israel has more than two thousand radiation producing machines. Some of these machines are quite ancient. They emit excessive amounts of radiation and endanger both operators and patients. Despite this, there was no law regulating the supervision and inspection of such machines until a year ago. Recently, an ordinance in this regard was passed and a centralized system of supervision was installed, based on a special laboratory, organized and equipped for this purpose.

The paper presents a variety of administrative and technical problems involved in the organization of a supervision system within a short time in a small country where previous data was scarce or non-existent. Special problems arising from the fact that Israel is an immigration country and, as a result, contains many makes and models of machines, are presented.

It is hoped that the experience gained and the techniques used may be of assistance to small countries facing similar problems.