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ABSTRACT

The controversy in recent years over the extent of the risk to the public from environmental radioactivity attributable to nuclear facilities (in particular nuclear power plants and fuel reprocessing facilities) has resulted in a lowering of previously "acceptable" environmental radiation levels. The proposal by the AEC to limit effluents from light-water-cooled nuclear reactors so that the exposure of any individual in the public would not exceed 5 mR/yr, and the pronouncement by the NRC Committee that the current environmental radiation protection guides are unnecessarily high, are illustrative.

In turn the AEC has issued a Safety Guide calling for considerable refinement in the measuring and reporting of effluents from nuclear power plants, and has only recently issued a counterpart dealing with the measuring and reporting of radioactivity in the environs of nuclear power plants. The EPA has also recently issued a guide for the surveillance of environmental radioactivity. Currently, power reactor operators are being required by the AEC Regulatory Staff to conduct detailed, sensitive environmental surveillance, at levels consistent with the proposed concentration limits of Appendix I.

Much of this appears to be based on extremely conservative assumptions throughout, including dose-effect relationships, exposure situations, pathway models, reconcentration factors and intakes, which cannot be substantiated when examined in the light of current experience in the vicinity of existing power reactors. The expenditures occasioned by the required additional in-plant features necessary to meet the currently proposed effluent release criteria appear difficult to justify on a reasonable basis. Those for environmental monitoring at the proposed concentration limits appear even more excessive in terms of dollars per man-rem of potential dose commitment.

INTRODUCTION

Nuclear reactors have been utilized in the United States for military and research purposes since World War II.^{1,2} The first U. S. peacetime nuclear power plant at Shippingport went into operation in 1957, and by the end of the following decade ten more such plants were operational.³ The first commercial fuel reprocessing facility became operational in 1966.³ During these two decades, from the mid-1940's to the mid-1960's, relatively little concern was expressed about environmental radiation dose criteria or about the risk to the public from the environmental radioactivity attributable to the operation of these facilities.

In the mid-1950's, the International Commission on Radiological Protection (ICRP) recommended⁴ environmental radiation dose limits of 0.5 rem/year for gonad or whole body exposure, and 1.5 rem/year for most other organs. These were generally a factor of 1/10 of the established occupational exposure limits. The ICRP also recommended⁵ that a corresponding factor be

applied to occupational maximum permissible concentrations in air and in water (or food), to establish concentration limits for the exposure of the public.

Even before this, responsible health physicists at individual facilities had applied a similar margin of safety to the involuntary exposure of the public from plant effluents. For example, an "off-site" exposure criterion of 3.5 mR/week was applied⁶ in 1948 at Brookhaven National Laboratory as a limit for the exposure of the public from the radioactive ⁴¹Ar in cooling air of the Brookhaven Graphite Research Reactor (BGRR).

The necessity of paying attention to indirect pathways and reconcentration mechanisms was recognized^{7,8} early in the development of the atomic energy program. In particular, that the presence of ¹³¹I in milk from cows grazing on a contaminated pasture might lead to thyroid doses considerably in excess of its direct inhalation was widely recognized from the experience following the release of about 20,000 curies of ¹³¹I from the air-cooled Windscale reactor⁹ in 1957. The early experience at Hanford⁸ and at Windscale¹⁰ in the release of multicurie amounts of activity to the aquatic and marine environments pointed to the possible existence of sub-populations at special risk due to bio-accumulations and/or unusual dietary practices.

From these and other similar experiences the ICRP evolved the concept of a selective approach to environmental situations. In its 1963 publication¹¹ on the principles of environmental monitoring, the ICRP said in part: "In most situations in which radioactive materials are introduced into man's environment there will be numerous and complex pathways by which each of the released nuclides may ultimately cause the radiation exposure of man ...". Simplified versions of these pathways, as depicted by the ICRP, are shown for releases to air in Figure 1, and for releases to ground or surface waters in Figure 2. The ICRP further indicated that: "A comprehensive and detailed study of all such pathways will not be needed, even for installations which involve potential radiation hazards of the greatest magnitude by reactors, reactor fuel reprocessing plants and stores of fuel reprocessing wastes. Experience has shown that a study of the situation will indicate that certain nuclides and certain exposure pathways are much more important than others. These nuclides and pathways are designated "critical"." (emphasis the author's)

In the context of the development of the application of nuclear energy for scientific and industrial purposes, in 1961 a seminar¹² on the mechanisms of transfer of radionuclides from the environment through food, air and water to man, was conducted under the auspices of the United Nations, the World Health Organization and the International Atomic Energy Agency. It is evident that by this time an extensive basis for pathway modeling was available. Several papers presented at a 1968 symposium on environmental surveillance in the vicinity of nuclear facilities¹³ indicated a continuing refinement in the art of pathway modeling and dose assessment.

*Work carried out at Brookhaven National Laboratory under contract with the U.S. Atomic Energy Commission.

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