

**2005
Rationale for Revisions**

**Part Q
Licensing and Radiation Safety
Requirements for Irradiators**

Introduction

This revision to Part Q continues to use references to 10 CFR parts where the applicable references in SSRCR sections are not yet available. The 10 CFR references are 30.35, 30.41, 30.50(c)(1), 30.50(c)(2), and 30.51.

The specific changes in 2004 revision are as follows:

Sec. Q.1 - Purpose and Scope. In subpart a. Part T is added and in subpart b. minor punctuation changes have been made for clarity.

Sec. Q.2 - Definitions. The definition of “annually” has been expanded as in 10 CFR Part 36

"Annually" means either:

- (1) At intervals not to exceed one year; or
- (2) Once per year, at about the same time each year (plus or minus one month).

Sec. Q.21 - Personnel Monitoring. Amended after 10 CFR 36.55 to allow irradiator operators to wear any personnel dosimeter requiring processing to determine radiation dose, provided that the dosimeter is processed and evaluated by an accredited NVLAP processor.

- a. Irradiator operators shall wear a personnel dosimeter that is processed and evaluated by an accredited National Voluntary Laboratory Accreditation Program (NVLAP) processor while operating a panoramic irradiator or while in the area around the pool of an underwater irradiator. The personnel dosimeter processor must be accredited by the National Voluntary Laboratory Accreditation Program for high energy photons in the normal and accident dose ranges [see Part D.1501c]. Each personnel dosimeter must be assigned to and worn by only one individual. Film badges must be processed at least monthly, and other personnel dosimeter must be processed at least quarterly.

Sec. Q.29 - Records and Retention Periods. [Modified to use conforming terminology of “personnel dosimeter” in place of “film badges and TLD’s”.] The licensee shall maintain the following records at the irradiator for the periods specified.

- e. Evaluations of personnel dosimeters required by Q.21 until the Agency terminates the license.