

LINAC RADIATION MONITORING AND SURVEYS: INSTRUMENTS AND METHODS

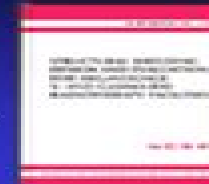
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"Doing the right thing, doing it right"



NCRP Report No. 151:Chapter 6

1. Radiation survey required for:
 - New facilities
 - Old installations that have been modified
 - New procedures
2. Preliminary survey immediately after accelerator is operational
3. Complete survey once accelerator is completely operational
4. Provides guidelines for surveys.



Page 151: NCRP, August 1996

Impact of Pulsed Operation on Linac Monitoring

- Repetition rates vary from ~ 100 to 400 pulses per second
- Pulse widths range from ~ 1 to 10 microseconds
- Duty factor (DF) = pulse width x repetition rate
 - For e.g., DF = 100 pulses/s x 1×10^{-5} s = 1×10^{-3}
- Very small DF imposes severe restrictions on instruments
- Peak Intensity = Average Intensity/DF
 - $I_{peak} = 10,000 \times I_{av}$

Page 151: NCRP, August 1996

Impact of Pulsed Operation on Instrument Response

- Intense photon pulse overwhelms active detector that detects particles electronically
- Instruments with long dead times (GM tubes and proportional counters) saturate and count repetition rate
- Scintillation survey meters may become non-linear at high dose rates because of PMT tubes
- Ionization chambers are less influenced but must be operated with adequate voltage to overcome recombination losses

Page 151: NCRP, August 1996

Ncrp Study Guide

JA Banks



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