



# Radiation Safety Institute of Canada

Institut de radioprotection du Canada

## LABORATORY AND TECHNICAL SERVICES

### LEAK TESTING

Our Leak Testing Service covers gamma, beta and alpha sources and is approved under Canadian Nuclear Safety Commission (CNSC) *Regulatory Standard R-116, Requirements for Leak Testing Selected Sealed Radiation Sources.*

### INSTRUMENT CALIBRATION

We calibrate most types of gamma survey instruments, electronic and ion chamber type dosimeters. Our Instrument Calibration Service is approved by the CNSC under its *Regulatory Standard R-117, Requirements for Gamma Radiation Survey Meter Calibration.*

### WORKPLACE SURVEYS

One of the most effective ways to respond to employee concerns about radiation in the workplace is to have a systematic survey conducted by an independent expert like the Radiation Safety Institute of Canada.

Our surveys measure the extent of exposure to radiation in the workplace from electromagnetic fields, X-rays, airborne environmental radon, etc.

All of our results, reports and recommendations are presented in plain language.



## Personal Alpha Dosimetry (PAD)

- A reliable, efficient and fully integrated personal radiation exposure monitoring system
- The PAD is lightweight, self-contained and durable – quite simply the most accurate and convenient technology available on the market
- Government certified and licensed by the Canadian Nuclear Safety Commission (CNSC)
- Best of all, every aspect of the Institute's PAD system is backed by our world-class scientific and technical staff

alerts. Results are sent to clients and can also be sent to Health Canada's National Dose Registry (NDR).

### Alpha spectroscopy enables deeper analysis

The Radiation Safety Institute's Alpha Spectroscopy Service is also available to clients for further analysis of LLRD samples to determine radionuclide composition and abundance.

**To request a 30-page PAD Service booklet, which provides details on all technical and operational aspects of the PAD Service, please contact us today.**

The Radiation Safety Institute of Canada uses world-class, patented technology in our personal alpha dosimetry (PAD) service. There is simply no better system available in Canada for monitoring the radiation exposure of individual workers from radon and thoron progeny and from long-lived radioactive dust (LLRD).

The Radiation Safety Institute's PAD service is the only licensed radiation dosimetry service in North America capable of measuring the actual exposure of individual workers to alpha radiation from radon and thoron progeny and LLRD.

### How the PAD System works

The Institute's PAD system consists of a detector head and an air sampling unit, worn together on a worker's belt. At the end of each month, the head is removed and replaced by a new one.

The used head is sent to our National Laboratories in Saskatoon, Saskatchewan for processing. Transport of the used heads is easy, quick and efficient.

The PAD Service includes laboratory analysis, technical support, on-site equipment, quality assurance, quality control and timely reporting of results, including early



**Radiation Safety Institute of Canada**  
Institut de radioprotection du Canada

**National Education Centre**  
607-1120 Finch Avenue West  
Toronto, ON M3J 3H7  
(416) 650-9090 ph  
(416) 650-9920 fax

**National Laboratories**  
102-110 Research Drive  
Saskatoon, SK S7N 3R3  
(306) 975-0566 ph  
(306) 975-0494 fax

1-800-263-5803  
www.radiationsafety.ca  
info@radiationsafety.ca

**Good Science in Plain Language®**