

“ *Measurement solutions
for nuclear safety and
security.* ”



Contamination Monitor Support Services



CANBERRA



>> The CANBERRA Difference

>> CANBERRA's contamination monitor support and service contracts are designed to help you get the most from your Argos, GEM-5, Cronos, Sirius, and even non-CANBERRA monitors.



Argos™ TPS Family of Gasless Whole Body Monitor



Argos™ AB Gas-Flow Whole Body Contamination Monitor



Sirius™-5 Hand, Cuff & Foot Monitor with optional Frisker shown



GEM™-5 Gamma Exit Monitor



Cronos Gamma Object/Tool Monitor

CANBERRA offers a range of contract options to suit the unique support requirements of your site or fleet. Whether your goal is to maximize the performance of your CANBERRA monitors, or to verify/assess the performance of your entire contamination monitoring program, our team of professionals (Certified Health Physicists, Engineers, technical and application support experts) is available to work with you.

Our Service Team's mission is to enable you to leverage your investment in all your contamination monitor products, enhance your radiological protection program, eliminate regulatory problems and area for improvement (AFI) findings. This results in increased safety, lower dose, and high efficiency.

CANBERRA provides you with an organization 100% dedicated to the Nuclear Industry from start to finish. We are focused on Safety, Quality, Delivery and Performance. Our Management, Service, Sales, and Technical teams are trained to recognize human performance factors through their observations while at your facilities. These "lessons learned" are incorporated into ongoing product and service development. We look forward to the opportunity to work with you and demonstrate the CANBERRA Difference.



“ We strive to be recognized by our customers for consistently exceeding their expectations. ”



»» CANBERRA offers professional support options in the following contamination monitor service areas:

Passive Monitoring Qualification and Evaluation (CM-PASSIVE)

- > Achieve 1% or less ALI passive monitoring for gamma capable monitors
- > On-site phantom based verification of performance using ANSI N13.30 Qualified Phantom
- > Documented performance consistent with ANI Engineering Inspection Criteria Section 8.5.9 & INPO 05-008 Section IV.c.3.b
- > Evaluation against plant mix
- > Maintain performance by evaluation of proper setback distances



Monitor Performance Verification and System Optimization (CM-OPTIMIZATION)

- > Site survey prior to monitor installation
- > Optimization of placement versus directional radiation fields
- > Shielding recommendations, as needed to compensate for radiation fields
- > Analysis of beta/alpha ratios for radon/thoron progeny adjustment/compensation
- > Setting and optimization for performance in the presence of radon progeny
- > Analysis of both internal and external self-shielding affects for both personnel and object monitors
- > Optimization of gamma exit monitors performance against the representative plant mix

Rn Progeny/Rn Progeny Rejection Setup (CM-RADON)

- > Analysis of beta/alpha ratios for radon/thoron progeny adjustment/compensation
- > Setting and optimization for performance in the presence of radon progeny
- > Evaluation of settings against representative plant smear performance

Bi-Annual Monitor Utilization, Calibration and Performance Summary (CM-PERFORMANCE)

- > Bi-annual calibration using NIST traceable sources
- > Calibration reports documenting methods and NIST traceability of calibrations
- > Bi-annual backup of monitor data and settings
- > Bi-annual report of monitoring metrics summary
- > Presentation of metrics/reports in standard Microsoft® and Adobe® formats.
 - Total personnel monitored
 - Total personnel contamination summary
 - Total personnel cleared due to radon progeny rejection
 - Region(s) of body contamination summary
 - Contamination levels
 - Contamination trend analysis
 - Annual summary to assist with a review of your contamination control program.

INPO Audit Readiness (CM-AUDIT)

- > Analysis of calibration/performance against a representative plant smear, and sources
- > Monitor performance base-lined against INPO “How To” documents such as INPO RP-1-4
- > Optimize the creation and preparation of plant smears for contamination monitor performance assessments
- > Evaluation of alarm levels, testing procedures and alarm test sources against EPRI/INPO guidance
- > Enable identification and correction of program weaknesses prior to audits
- > Training of staff to maintain audit readiness

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»» CANBERRA'S professional staff undergoes a rigorous training and certification program to be qualified on contamination monitor services.

Procedure Development & Review (CM-PROCEDURE)

- > Review of existing procedures
- > Development of new procedures in site specific format
- > Update of procedures based on industry benchmarks and EPRI, INPO guidance

Installation, Familiarization and Training (CM-SETUP)

- > Installation and setup of monitors by factory trained personnel
- > Training on setup, calibration, alarm testing designed by certified (CHP, RRPT) professionals
- > Training on maintenance procedures by our certified field service engineers
- > Provide system demonstration software configured to your site parameters for future training
- > Easy access to application support specialists

Software, Firmware and Operating System Updates (CM-UPDATES)

- > Automatic software and firmware change notice subscription
- > Onsite support and installation of software and firmware updates
- > Automatic review of software updates against possible procedural changes
- > Onsite or Online staff familiarization training with new software features and benefits

Critical Component Availability (CM-CRITICAL)*

- > Maintain critical spare parts onsite and available for use
- > No outlay of capital until parts are utilized
- > Use of Automated Inventory System
- > Fast and effective availability
- > Low stock warning

** Only available with the purchase of a Site Contract*

Failure Remediation (CM-REMEDIAL)

- > 24, 48 or 72 Hour on-site response
- > Outage support
- > 24/7 phone support

»» COMBINATION PACKAGES

For pricing of individual or combined services, please contact CANBERRA.

United States: 1-800-255-6370

Email: techsupport@canberra.com

www.canberra.com/services

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