NUCON® Products and Services

10CFR50 Appendix B and NQA-1 QA Program
Licensed Radioisotope Laboratory - ASME Section VIII

AIR & GAS TREATMENT SYSTEMS AND COMPONENTS
• Complete ESF and non-ESF Air Treatment Systems
• Portable Air Cleaning Units (P-NATS)
• Type II, III and IV Adsorber Cells
• Adsorber Refilling Services
• Gaseous Radwaste and Off-Gas Systems
• Target Dissolver Off-Gas Systems
• Mercury Control Equipment and Systems for Mixed Waste Disposal Operations
• Acid Gas Removal Equipment and Systems
• Gas & Liquid Phase Treatment Systems

TESTING INSTRUMENTS
• Tracer Gas Detectors and Generators (R-11, R-12, R-112 & R-112A, HCFC-123, R-134a, 1-bromobutane)
• Aerosol Detectors and Generators (DOP, PAO, DOS, etc.)
• Pressure Detectors (Portable)
• Calibration Services; (Halide & Aerosol Instruments, Airflow, Pressure and Temperature Measurement Instruments)

ADSORBENTS
• Radioiodine Removal Carbons (NUSORB® KITEG II™, TEG™ & KIG™)
• Noble Gas Delay Bed Carbons
• Mercury Removal Adsorbents (MERSORB® series)
• Acid Gas Removal (NUSORB® KINA™ series) and Systems
• VOC Removal (NUSORB® GC™ series)

RADIOISOTOPE LABORATORY SERVICES
• Radioiodine Removal Performance Testing of New and Used Carbons per USNRC Regulatory Guides, 1.52 (all revisions) & 1.140 (all revisions) and ASTM D3803, RDT-M16-1T, and DIN & DNR
• $^{133}$Xe / $^{85}$Kr Dynamic “K” Testing
• Various Testing Using Radioisotope Tracers

ON-SITE TESTING AND CONSULTING
• In-place Leak Testing (ASME: N510 & N511 and AG-1)
• Control Room Envelope In Leakage Testing (ASTM E741-2000)
• Acceptance Testing (ASME N510 and AG-1)
• Air Balancing
• Duct and Housing Leakage Testing
• Compliance Review of ESF Air Cleaning Systems
• Personnel Training (ANSI/ASME and ASME AG-1)

LABORATORY AND ENGINEERING SERVICES
• Control Room Habitability Improvements and Upgrades
• Radioisotope “Heat Decay” Studies
• Chemical Effects Studies (on adsorbants)
• Treatment Technology Development and Design

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