

PART III

KWOC INDEX OF AIR CLEANING CONFERENCE TITLES

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
AACS	ASME N510 Test Results for Savannah River Site AACS Filter	23-0068
AG-1	Application of ASME Code AG-1 to YGN 3 & 4 Plants, South Korea	22-0223
AG-1	Code on Nuclear Air and Gas Treatment ASME/ANSI AG-1	22-0485
AG-1	Filter Sections of ASME AG-1, Code on Nuclear Air and Gas Treatment	22-0491
AG-1	AG-1 Division IV, Section TB: Field Testing of Gas Processing Systems	21-0198
AG-1	Panel Session: Changes to ASME Code AG-1, Section FC, HEPA Filters	24-0850
ANSI/ASME	A Review of the History, Revisions and Interrelationships of ANSI/ASME	21-0320
ANSI/ASME	Testing of Non-ANSI/ASME N509 Systems to ANSI/ASME N510	21-0327
ANSI/ASME	Practical Experience Applied to the Design of Injection and Sample	24-0132
ASME	Application of ASME Code AG-1 to YGN 3 & 4 Plants, South Korea	22-0223
ASME	Filter Sections of ASME AG-1, Code on Nuclear Air and Gas Treatment	22-0491
ASME	ASME N510 Test Results for Savannah River Site AACS Filter	23-0068
ASME	An Example of a Component Replacement when Applying ASME N509	23-0093
ASME	An Example of a Component Replacement when Applying ASME N509	23-0093
ASME	ASME N511-19xx, Standard for Periodic In-Service Testing of Nuclear Air	24-0264
ASME	The First Twenty Years of the ASME Committee on Nuclear Air and Gas	24-0807
ASME	Panel Session: Changes to ASME Code AG-1, Section FC, HEPA Filters	24-0850
ASME/ANSI	Code on Nuclear Air and Gas Treatment ASME/ANSI AG-1	22-0485
ASTM	An Evaluation of Efforts by Nuclear Power Plants to Use ASTM D3803-89	23-0078
Acceptance	Progress Report on the In-Place Acceptance Tests of Walk-In Plenum	21-0360
Acceptance	Section TA Acceptance Testing, Draft Revision 03/06/96	24-0203
Accidents	Activated Charcoal Beds for Passive Mitigation of the Radioactivity	22-0428
Accidents	Field Measurement of the Performance of Air Cleaning Systems to	21-0435
Accidents	Criteria for Calculating the Efficiency of HEPA Filters During and After	23-0563
Accuracy	Accuracy Improvement in Leak Detection of Charcoal Adsorbers by	24-0176
Activated	Activated Charcoal Beds for Passive Mitigation of the Radioactivity	22-0428

## 24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Activated	A Systematic Study on the Effectiveness of Mono Alkyl Iodides of Cyclic	21-0394
Activated	New Type Adsorbent Material of Impregnated Activated Carbon Fibers for	21-0545
Activated	Kinetic Modelling of the Purging of Activated Carbon After Short Term	21-0662
Activated	Effects on the Efficiency of Activated Carbon on Exposure to Welding	23-0639
Activated	Characterization and Restoration of Performance of "Aged" Radioiodine	24-0520
Activities	Review of Department of Energy HEPA Filter Test Activities FY 1990 - FY	22-0177
Activities	Review of Department of Energy Filter Test Facility and Filter Test Facility	21-0385
Activities	IAEA Decadal Activities in the Field of Radioactive Gaseous Waste	21-0635
Activities	Nuclear Air Cleaning Activities in Germany	21-0981
Activities	International Panel Reports on Nuclear Air and Gas Cleaning Activities	24-0380
Activities	Basis for and Practical Methods of Controlling Painting Activities at the	24-0534
Activities	A Review of DOE HEPA Filter Component Test Activities: FY-1994	24-0631
Adaptation	Adaptation of Nuclear Filtration Technology to the Demilitarization of	21-0419
Adsorbent	New Type Adsorbent Material of Impregnated Activated Carbon Fibers for	21-0545
Adsorbent	Residence Time Determination for Adsorbent Beds of Different	23-0308
Adsorbent	Influences of Impurities on Iodine Removal Efficiency of Silver Alumina	24-0563
Adsorbents	Removal of Iodine-129 from Dissolver Off-Gas of Reprocessing Plant by	22-0118
Adsorbents	A Simplified Test Procedure for Determining the Effectiveness of	22-0637
Adsorbents	Testing of Adsorbents Used in Nuclear Power Plant Air Cleaning Systems	22-0661
Adsorbents	Methyl Iodide Tests on Used Adsorbents	22-0768
Adsorbents	A Study of the Effect of Coatings Operation on Radioiodine Removing	21-0563
Adsorbents	Removal Characteristics of Some Organic Iodine Forms by Silver	21-0594
Adsorber	Changes in Adsorber Testing as a Result of NRC Generic Information	21-0607
Adsorber	Effects of Welding Fumes on Nuclear Air Cleaning System Carbon	24-0525
Adsorbers	Replacement Tracer Agent for the In-Place Leak Testing of Adsorbers in	22-0698
Adsorbers	Accuracy Improvement in Leak Detection of Charcoal Adsorbers by	24-0176

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Adsorption	Diffusional Analysis of the Adsorption of Methyl Iodide on Silver	24-0576
Adsorptive	Development of a Process for Adsorptive Separation of KR-85 from the	21-0299
Advanced	Severe Accident Issues for Advanced Reactors	22-0034
Advanced	GE's Advanced Nuclear Reactor Designs	22-0043
Advanced	Air Cleaning Requirements for Evolutionary and Advanced Reactors	21-0016
Aerosol	A New Method for In-Situ Filter Testing Using Pulses of Aerosol and	22-0154
Aerosol	Aerosol Particle Losses in Sampling Systems	22-0310
Aerosol	High Efficiency and Ultra Low Penetration Aerosol Filter Test Programs by	22-0324
Aerosol	Aerosol Penetration Through a Seismically Loaded Shear Wall	22-0402
Aerosol	Beta Experiments on Aerosol Release During Melt-Concrete Interaction	22-0415
Aerosol	Experimental Study on Aerosol Removal Effect by Pool Scrubbing	22-0453
Aerosol	Real-Time Detection of a Fluorescent Aerosol Application to the Efficiency	21-0095
Aerosol	Aerosol Concentrations Produced by a Laskin Nozzle Generator a	21-0109
Aerosol	Safe Replacement Materials for DOP in "Hot Smoke" Aerosol	21-0126
Aerosol	Aerosol Penetration Inside HEPA Filtration Media	21-0799
Aerosol	Continuous Air Monitor for Alpha-Emitting Aerosol Particles	21-0859
Aerosol	Experimental Study on Aerosol Removal Efficiency for Pool Scrubbing	21-0918
Aerosol	Single Point Aerosol Sampling: Evaluation of Mixing and Probe	23-0217
Aerosol	EPA Perspective on Radionuclide Aerosol Sampling	23-0241
Aerosol	NAUAHYGROS - A Code for Calculating Aerosol Behavior in Nuclear	23-0520
Aerosol	The Influence of Salt Aerosol on Alpha Radiation Detection by WIPP	24-0188
Aerosol	Aerosol Deposition In Bends with Turbulent Flow	24-0441
Aerosol	Method for HEPA Filter Leak Scanning with Differentiating Aerosol	24-0671
Aerosol	Simulation Test of Aerosol Generation from Vessels in the Pretreatment	24-0778
Aerosols	New Injection System for a Short Mixing of Test Aerosols and Gas	21-0080
Aerosols	Characteristics of Laskin Nozzle Generated Aerosols	21-0116

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Aerosols	Measurement System for Alpha and Beta Aerosols with Wide Dynamic	21-0872
Aerosols	Experimental Study of Elementary Collection Efficiency of Aerosols by	23-0682
Aerosols	Keynote Address: Nuclear Aerosols: Unfinished Business	24-0005
Aged	Characterization and Restoration of Performance of "Aged" Radioiodine	24-0520
Aging	Filter-Adsorber Aging Assessment	23-0553
Air	Proposed Source Term Revisions Potential Impact on Future Nuclear Air	22-0736
Air	Effects of Filter Housing and Ductwork Configuration on Air Flow	22-0205
Air	Effects of Filter Housing and Ductwork Configuration on Air Flow	22-0205
Air	Revision of Reactor Accident Source Terms and Implications for Nuclear	22-0362
Air	Post-Accident Air Leakage Analysis in a Nuclear Facility via T-Method	22-0374
Air	Code on Nuclear Air and Gas Treatment ASME/ANSI AG-1	22-0485
Air	Filter Sections of ASME AG-1, Code on Nuclear Air and Gas Treatment	22-0491
Air	Testing of Adsorbents Used in Nuclear Power Plant Air Cleaning Systems	22-0661
Air	Development of a Personal Computer Code for Fire Protection Analysis of	22-0875
Air	Efficiency Test for Ultra High Efficiency Metal Air Filters	22-0882
Air	A View of Licensee Event Reports - Relating to Nuclear Air Treatment	22-0899
Air	A View of Licensee Event Reports - Relating to Nuclear Air Treatment	22-0899
Air	Air Cleaning Requirements for Evolutionary and Advanced Reactors	21-0016
Air	Air Cleaning Technologies for the Management and Disposal of	21-0028
Air	Field Testing of Nuclear Air Treatment and Gas Processing Systems	21-0193
Air	Photochemical Removal of Radioactive Iodine from Air	21-0376
Air	Technical Brief Stainless Steel Filter for Nuclear Air Cleaning	21-0424
Air	Field Measurement of the Performance of Air Cleaning Systems to	21-0435
Air	US NRC Regulatory Guidance for Engineered Safety Feature Air	21-0626
Air	Mathematical Models for Changes in HEPA Filter Pressure Drop Caused	21-0671
Air	Optimization of Air Ducts for Nuclear Reactor Power Generation Station	21-0695

# 24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

## 21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Air	High Efficiency Steel Filters for Nuclear Air Cleaning	21-0733
Air	Continuous Air Monitor for Alpha-Emitting Aerosol Particles	21-0859
Air	Nuclear Air Cleaning Program in USA	21-0969
Air	Nuclear Air Cleaning R&D Programs in Canada	21-0971
Air	Nuclear Air Cleaning Programs in Progress in France	21-0978
Air	Nuclear Air Cleaning Activities in Germany	21-0981
Air	Air Cleaning Programs Relating to the First Japanese Commercial	21-0984
Air	Nuclear Air Cleaning Programs in Hungary	21-0986
Air	A Brief History of the Air Cleaning Conferences	23-0003
Air	Radionuclide Air Emissions at Department of Energy Facilities	23-0233
Air	Application of Nuclear Air Cleaning and Treatment Codes	23-0297
Air	The Actual Practice of Air Cleaning in Belgian Nuclear Facilities	23-0432
Air	An Introduction to the Design, Commissioning, and Operation of Nuclear	23-0439
Air	Clean Air and Clear Responsibility	23-0658
Air	Bar Coded Air Sample Tracking: How It Can Assist in Compliance with	23-0670
Air	Air Cleaning Issues with Contaminated Sites	24-0012
Air	Testing Cleanable/Reusable HEPA Prefilters for Mixed Waste Incinerator	24-0076
Air	Development of an Air Cleaning System for Dissolving High Explosives	24-0089
Air	The Influence of Salt Aerosol on Alpha Radiation Detection by WIPP	24-0188
Air	ASME N511-19xx, Standard for Periodic In-Service Testing of Nuclear Air	24-0264
Air	ASME N511-19xx, Standard for Periodic In-Service Testing of Nuclear Air	24-0264
Air	International Panel Reports on Nuclear Air and Gas Cleaning Activities	24-0380
Air	Control Room Envelope Unfiltered Air Inleakage Test Protocols	24-0400
Air	Heating, Ventilating, and Air Conditioning Deactivation Thermal Analysis	24-0471
Air	Effects of Welding Fumes on Nuclear Air Cleaning System Carbon	24-0525
Air	Extended-Life Nuclear Air Cleaning Filters Via Dynamic Exclusion	24-0788

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Air	The First Twenty Years of the ASME Committee on Nuclear Air and Gas	24-0807
Air/Gas	New Challenges to Air/Gas Cleaning Systems	24-0033
Airborne	Global Change and the Practice for Airborne Waste Treatment	22-0004
Airborne	Guide to Sampling Airborne Radioactive Materials in Nuclear Facilities	23-0250
Airborne	Ventilation System Design for Control of Radioactive Airborne Particulates	23-0784
Airflow	Post-Accident Air Leakage Analysis in a Nuclear Facility via T-Method	22-0374
Airflow	Unit Vent Airflow Measurements Using a Tracer Gas Technique	24-0147
Alkyl	A Systematic Study on the Effectiveness of Mono Alkyl Iodides of Cyclic	21-0394
Alpha	Measurement System for Alpha and Beta Aerosols with Wide Dynamic	21-0872
Alpha	The Influence of Salt Aerosol on Alpha Radiation Detection by WIPP	24-0188
Alpha-Emitting	Continuous Air Monitor for Alpha-Emitting Aerosol Particles	21-0859
Alternatives	Alternatives to Current Procedures Used to Estimate Concentrations in	21-0714
Alumina	Development of Silver Impregnated Alumina for Iodine Separation from	23-0352
Alumina	Influences of Impurities on Iodine Removal Efficiency of Silver Alumina	24-0563
Analysis	Post-Accident Air Leakage Analysis in a Nuclear Facility via T-Method	22-0374
Analysis	Development of a Personal Computer Code for Fire Protection Analysis of	22-0875
Analysis	Radiological Health Effects Models for Nuclear Power Plant Accident	21-0057
Analysis	Numerical Analysis of a Natural Convection Cooling System for	23-0128
Analysis	AP600 Containment Purge Radiological Analysis	23-0454
Analysis	Heating, Ventilating, and Air Conditioning Deactivation Thermal Analysis	24-0471
Analysis	Diffusional Analysis of the Adsorption of Methyl Iodide on Silver	24-0576
Analyzer	Simulated Performances of a Single Particle Laser Light Scattering	21-0173
Annulus	Design and Characteristics of Annulus Ventilation and HVAC System for	22-0791
Applicability	A Review of Gas Phase Filtration Standards and their Applicability to	22-0215
Area	Developments in the Area of Regulatory Matters in the UK	21-0977
Area	The Effect of Media Area on the Dust Holding Capacity of Deep Pleat	24-0743

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Army-Approved	New Performance Data for "Emery 3002" and "Emery 3004," Two	23-0743
Assessment	Potential Radionuclide Emissions from Stacks on the Hanford Site, Part 2:	23-0269
Assessment	Value-Impact Assessment for Resolution of Generic Safety Issue 143 -	23-0380
Assessment	Potential Radionuclide Emissions from Stacks on the Hanford Site, Part 1:	23-0498
Assessment	Filter-Adsorber Aging Assessment	23-0553
Assist	Bar Coded Air Sample Tracking: How It Can Assist in Compliance with	23-0670
Assisted	A Novel Permanently Magnetized High Gradient Magnetic Filter Using	23-0158
Assurance	Quality Assurance Requirements for NESHAPS Compliance	21-0352
Atmosphere	Heater Selection Criteria for Engineered Safety Features Atmosphere	22-0820
Atmosphere	Experimental Study on Aerosol Removal Efficiency for Pool Scrubbing	21-0918
Atmospheres	Direct Post-Accident Sampling System for Containment Atmospheres	22-0283
Atmospheric	Atmospheric Discharges from Nuclear Facilities during Decommissioning:	24-0460
Atomic	United Kingdom Atomic Energy Authority Programs	21-0975
Audit	Testing of Non-N509 Filter Systems - Audit Experiences at McGuire	21-0329
Audit	Comments on Testing of Non-N509 Filter Systems - Audit Experiences at	21-0332
Authority	United Kingdom Atomic Energy Authority Programs	21-0975
Automatic	Confirmation of Automatic Flow Control for a Gaseous Effluent Sampling	21-0415
BARCT	BARCT: A Conservative Approach to Regulating Radionuclide Emissions	22-0233
BWR	Containment Venting Sliding Pressure Venting Process for PWR and	21-0876
Balance	Technical Scale Iodine Expulsion from the Dissolver Solution and Balance	21-0247
Banks	Effects of Welding Fumes on Nuclear Air Cleaning System Carbon	24-0525
Bar-Coded	Bar Coded Air Sample Tracking: How It Can Assist in Compliance with	23-0670
Bed	Design and Full Scale Test of a Sand Bed Filter	21-0946
Beds	Activated Charcoal Beds for Passive Mitigation of the Radioactivity	22-0428
Beds	Residence Time Determination for Adsorbent Beds of Different	23-0308
Behavior	Behavior of the Loaded Polygonal HEPA Filter Exposed to Water Droplets	22-0534



24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Behavior	Iodine and NOx Behavior in the Dissolver Off-Gas and Iodex Systems in	21-0271
Behavior	Behavior and Control of Ruthenium During Operation of the New Waste	21-0467
Behavior	Behavior of the Polygonal HEPA Filter Exposed to Water Droplets Carried	21-0772
Behavior	Behavior of Ruthenium in the Case of Shutdown of the Cooling System of	21-0831
Behavior	NAUAHYGROS - A Code for Calculating Aerosol Behavior in Nuclear	23-0520
Behavior	Behavior of Iodine in the Dissolution of Spent Nuclear Fuels	24-0550
Behaviour	Impacts of the Filter Clogging on the Behaviour of a Ventilation Network in	21-0815
Belgian	The Actual Practice of Air Cleaning in Belgian Nuclear Facilities	23-0432
Bends	Aerosol Deposition In Bends with Turbulent Flow	24-0441
Beta	Beta Experiments on Aerosol Release During Melt-Concrete Interaction	22-0415
Beta	Measurement System for Alpha and Beta Aerosols with Wide Dynamic	21-0872
Bubble-Tight	Leak Testing of Bubble-Tight Dampers Using Tracer Gas Techniques	23-0391
Building	Alternatives to Current Procedures Used to Estimate Concentrations in	21-0714
CAIRE	CAIRE - A Real-Time Feedback System for Emergency Response	21-0646
CAM	Performance Characterization of a New CAM System	22-0299
CFR	Bar Coded Air Sample Tracking: How It Can Assist in Compliance with	23-0670
CFR	Bar Coded Air Sample Tracking: How It Can Assist in Compliance with	23-0670
Calcining	Behavior and Control of Ruthenium During Operation of the New Waste	21-0467
Canada	Nuclear Air Cleaning R&D Programs in Canada	21-0971
Canadian	Canadian Waste Management Program	21-0042
Candu	Demonstration of Carbon-14 Removal at Candu Nuclear Generating	21-0530
Canisters	Numerical Analysis of a Natural Convection Cooling System for	23-0128
Capture	A Novel Permanently Magnetized High Gradient Magnetic Filter Using	23-0158
Carbon	Experience with Ontario Hydro's In Place Carbon Filter Testing	22-0672
Carbon	A Systematic Study on the Effectiveness of Mono Alkyl Iodides of Cyclic	21-0394
Carbon	New Type Adsorbent Material of Impregnated Activated Carbon Fibers for	21-0545

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Carbon	Factors Affecting the Retention of Methyl Iodide by Iodide-Impregnated	21-0583
Carbon	Kinetic Modelling of the Purging of Activated Carbon After Short Term	21-0662
Carbon	Effects on the Efficiency of Activated Carbon on Exposure to Welding	23-0639
Carbon	Effects of Welding Fumes on Nuclear Air Cleaning System Carbon	24-0525
Carbon-14	Demonstration of Carbon-14 Removal at Candu Nuclear Generating	21-0530
Carbons	Characterization and Restoration of Performance of "Aged" Radioiodine	24-0520
Certitest	A General Correlation of MPPS Penetration as a Function of Face	24-0698
Cesium	Measurement of Cesium Emissions During the Vitrification of Simulated	22-0253
Challenges	Challenges Within Ventilation Systems During Accident Situations	22-0510
Challenges	Challenges of Equipment Qualification Using Today's Standards with	23-0034
Challenges	New Challenges to Air/Gas Cleaning Systems	24-0033
Challenges	Progress and Challenges in Cleaning Up Hanford	24-0335
Characterization	Dissolution Off-Gas Characterization at the Marcoule Pilot Facility: Iodine	22-0053
Characterization	Dissolution Off-Gas Characterization at the Marcoule Pilot Facility: Iodine	22-0053
Characterization	Performance Characterization of a New CAM System	22-0299
Characterization	Characterization and Restoration of Performance of "Aged" Radioiodine	24-0520
Charcoal	Activated Charcoal Beds for Passive Mitigation of the Radioactivity	22-0428
Charcoal	Accuracy Improvement in Leak Detection of Charcoal Adsorbers by	24-0176
Charcoal	Charcoal Filter Testing	24-0395
Chemical	Adaptation of Nuclear Filtration Technology to the Demilitarization of	21-0419
Chemical	Field Measurement of the Performance of Air Cleaning Systems to	21-0435
Chemical	Behavior and Control of Ruthenium During Operation of the New Waste	21-0467
Chernobyl	The Experience with the Effectiveness of Filtering Systems for the	22-0393
Chilled	Value-Impact Assessment for Resolution of Generic Safety Issue 143 -	23-0380
Chronic	Chronic Inhalation Studies of Man-Made Vitreous Fibers	22-0191
Class	Challenges of Equipment Qualification Using Today's Standards with	23-0034

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Clean	Clean Air and Clear Responsibility	23-0658
Cleanable	Development and Evaluation of a Cleanable High Efficiency Steel Filter	22-0586
Cleanable	Further Development of the Cleanable Steel HEPA Filter and Comparison	24-0708
Cleanable/Reusable	Testing Cleanable/Reusable HEPA Prefilters for Mixed Waste Incinerator	24-0076
Cleaning	Proposed Source Term Revisions Potential Impact on Future Nuclear Air	22-0736
Cleaning	Effects of Filter Housing and Ductwork Configuration on Air Flow	22-0205
Cleaning	Revision of Reactor Accident Source Terms and Implications for Nuclear	22-0362
Cleaning	Testing of Adsorbents Used in Nuclear Power Plant Air Cleaning Systems	22-0661
Cleaning	Development of a Personal Computer Code for Fire Protection Analysis of	22-0875
Cleaning	Air Cleaning Requirements for Evolutionary and Advanced Reactors	21-0016
Cleaning	Air Cleaning Technologies for the Management and Disposal of	21-0028
Cleaning	Technical Brief Stainless Steel Filter for Nuclear Air Cleaning	21-0424
Cleaning	Field Measurement of the Performance of Air Cleaning Systems to	21-0435
Cleaning	US NRC Regulatory Guidance for Engineered Safety Feature Air	21-0626
Cleaning	High Efficiency Steel Filters for Nuclear Air Cleaning	21-0733
Cleaning	A Permanently Magnetized High Gradient Magnetic Filter for Glove-Box	21-0762
Cleaning	Nuclear Air Cleaning Program in USA	21-0969
Cleaning	Nuclear Air Cleaning R&D Programs in Canada	21-0971
Cleaning	Nuclear Air Cleaning Programs in Progress in France	21-0978
Cleaning	Nuclear Air Cleaning Activities in Germany	21-0981
Cleaning	Air Cleaning Programs Relating to the First Japanese Commercial	21-0984
Cleaning	Nuclear Air Cleaning Programs in Hungary	21-0986
Cleaning	A Brief History of the Air Cleaning Conferences	23-0003
Cleaning	Application of Nuclear Air Cleaning and Treatment Codes	23-0297
Cleaning	The Actual Practice of Air Cleaning in Belgian Nuclear Facilities	23-0432
Cleaning	An Introduction to the Design, Commissioning, and Operation of Nuclear	23-0439

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Cleaning	Air Cleaning Issues with Contaminated Sites	24-0012
Cleaning	New Challenges to Air/Gas Cleaning Systems	24-0033
Cleaning	Development of an Air Cleaning System for Dissolving High Explosives	24-0089
Cleaning	Progress and Challenges in Cleaning Up Hanford	24-0335
Cleaning	International Panel Reports on Nuclear Air and Gas Cleaning Activities	24-0380
Cleaning	Effects of Welding Fumes on Nuclear Air Cleaning System Carbon	24-0525
Cleaning	Extended-Life Nuclear Air Cleaning Filters Via Dynamic Exclusion	24-0788
Clear	Clean Air and Clear Responsibility	23-0658
Clogging	Impacts of the Filter Clogging on the Behaviour of a Ventilation Network in	21-0815
Close	Progress Report on the In-Place Acceptance Tests of Walk-In Plenum	21-0360
Coadsorption	Activated Charcoal Beds for Passive Mitigation of the Radioactivity	22-0428
Coatings	A Study of the Effect of Coatings Operation on Radioiodine Removing	21-0563
Code	Application of ASME Code AG-1 to YGN 3 & 4 Plants, South Korea	22-0223
Code	Code on Nuclear Air and Gas Treatment ASME/ANSI AG-1	22-0485
Code	Filter Sections of ASME AG-1, Code on Nuclear Air and Gas Treatment	22-0491
Code	Development of a Personal Computer Code for Fire Protection Analysis of	22-0875
Code	Calculation Code Evaluating the Confinement of a Nuclear Facility in	23-0412
Code	NAUAHYGROS - A Code for Calculating Aerosol Behavior in Nuclear	23-0520
Code	Development of a Computer Code to Predict a Ventilation Requirement	24-0065
Code	Panel Session: Changes to ASME Code AG-1, Section FC, HEPA Filters	24-0850
Coded	Bar Coded Air Sample Tracking: How It Can Assist in Compliance with	23-0670
Codes	Codes in Use	22-0493
Codes	European Community Nuclear Codes and Standards	21-0212
Codes	Integrating Industry Nuclear Codes and Standards into United States	23-0098
Codes	Application of Nuclear Air Cleaning and Treatment Codes	23-0297
Collecting	Study on Collecting Efficiency of Fission Products by Spray:	24-0500

# 24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

## 21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Collection	Experimental Study of Elementary Collection Efficiency of Aerosols by	23-0682
Column	Experimental Study on the Volatile Ruthenium Decontamination Factor of	22-0244
Column	Elimination of Iodine from Radioactive Gaseous Effluents in a Packed	21-0259
Commercial	Air Cleaning Programs Relating to the First Japanese Commercial	21-0984
Commissioning	An Introduction to the Design, Commissioning, and Operation of Nuclear	23-0439
Community	High Efficiency and Ultra Low Penetration Aerosol Filter Test Programs by	22-0324
Community	European Community Nuclear Codes and Standards	21-0212
Compartments	ASME N510 Test Results for Savannah River Site AACS Filter	23-0068
Competing	Further Development of the Cleanable Steel HEPA Filter and Comparison	24-0708
Compliance	Quality Assurance Requirements for NESHAPS Compliance	21-0352
Compliance	Bar Coded Air Sample Tracking: How It Can Assist in Compliance with	23-0670
Component	An Example of a Component Replacement when Applying ASME N509	23-0093
Component	A Review of DOE HEPA Filter Component Test Activities: FY-1994	24-0631
Computer	A New Method for In-Situ Filter Testing Using Pulses of Aerosol and	22-0154
Computer	Development of Computer Design System for HVAC System	22-0781
Computer	Development of a Personal Computer Code for Fire Protection Analysis of	22-0875
Computer	Development of a Computer Code to Predict a Ventilation Requirement	24-0065
Computer	Filtration Theory Using Computer Simulations	24-0485
Concentrations	The Application of HEPA Filter Units in Gas Streams of High Dust	22-0540
Concentrations	Aerosol Concentrations Produced by a Laskin Nozzle Generator a	21-0109
Concentrations	Alternatives to Current Procedures Used to Estimate Concentrations in	21-0714
Conditioning	A View of Licensee Event Reports - Relating to Nuclear Air Treatment	22-0899
Conditioning	ASME N511-19xx, Standard for Periodic In-Service Testing of Nuclear Air	24-0264
Conditioning	Heating, Ventilating, and Air Conditioning Deactivation Thermal Analysis	24-0471
Conference	Welcome and Objectives of the Conference	22-0003
Conference	Welcome and Objectives of the Conference	21-0002

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Conferences	A Brief History of the Air Cleaning Conferences	23-0003
Configuration	Effects of Filter Housing and Ductwork Configuration on Air Flow	22-0205
Configurations	Residence Time Determination for Adsorbent Beds of Different	23-0308
Confinement	Calculation Code Evaluating the Confinement of a Nuclear Facility in	23-0412
Confirmation	Confirmation of Automatic Flow Control for a Gaseous Effluent Sampling	21-0415
Conservative	BARCT: A Conservative Approach to Regulating Radionuclide Emissions	22-0233
Containment	Effect of Filtering at Containment Venting on the Consequences for the	22-0753
Containment	Direct Post-Accident Sampling System for Containment Atmospheres	22-0283
Containment	Design of a Prefilter to Improve Radiation Protection and Filtering	22-0443
Containment	Containment Venting Sliding Pressure Venting Process for PWR and	21-0876
Containment	Investigations into the Design of a Filter System for PWR Containment	21-0898
Containment	AP600 Containment Purge Radiological Analysis	23-0454
Containment	A Low Pressure Filter System for New Containment Concepts	23-0478
Containments	NAUAHYGROS - A Code for Calculating Aerosol Behavior in Nuclear	23-0520
Contaminated	Disposal of Slightly Contaminated Radioactive Wastes from Nuclear	23-0138
Contaminated	Air Cleaning Issues with Contaminated Sites	24-0012
Contamination	Variable Pattern Contamination Control Under Positive Pressure	24-0428
Control	Revised Accident Source Terms and Control Room Habitability	22-0742
Control	A New Method for In-Situ Filter Testing Using Pulses of Aerosol and	22-0154
Control	Control Room Inleakage Testing Using Tracer Gases at Zion Generating	22-0830
Control	Confirmation of Automatic Flow Control for a Gaseous Effluent Sampling	21-0415
Control	Behavior and Control of Ruthenium During Operation of the New Waste	21-0467
Control	Design Basis Documentation for the Control Room Ventilation/Chilled	21-0526
Control	Ventilation System Design for Control of Radioactive Airborne Particulates	23-0784
Control	Radioactive Waste Tank Ventilation System Incorporating Tritium Control	24-0051
Control	Testing Cleanable/Reusable HEPA Prefilters for Mixed Waste Incinerator	24-0076

## 24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Control	Control Room Envelope Unfiltered Air Inleakage Test Protocols	24-0400
Control	Variable Pattern Contamination Control Under Positive Pressure	24-0428
Control	Control of Radio-Iodine at the German Reprocessing Plant Wak During	24-0618
Controlling	Application of Innovative Policies for Controlling Radionuclide Releases:	24-0040
Controlling	Basis for and Practical Methods of Controlling Painting Activities at the	24-0534
Controls	Instrument & Controls Section (IA) Improvements	22-0490
Convection	Numerical Analysis of a Natural Convection Cooling System for	23-0128
Cooling	Behavior of Ruthenium in the Case of Shutdown of the Cooling System of	21-0831
Cooling	Numerical Analysis of a Natural Convection Cooling System for	23-0128
Core	Concept for a Passive Heat Removal and Filtration System Under Core	22-0863
Corona	The Development of Corona Discharge for Iodine Removal from Nuclear	22-0102
Correlation	A General Correlation of MPPS Penetration as a Function of Face	24-0698
Cost	A Thick Homogeneous Vegetated Cover Design Proves Cost- and	24-0118
Costs	Survey of Life-Cycle Costs of Glass-Paper HEPA Filters	22-0849
Countries	High Efficiency and Ultra Low Penetration Aerosol Filter Test Programs by	22-0324
Couple	Progress Report on the In-Place Acceptance Tests of Walk-In Plenum	21-0360
Cover	A Thick Homogeneous Vegetated Cover Design Proves Cost- and	24-0118
Criteria	Heater Selection Criteria for Engineered Safety Features Atmosphere	22-0820
Criteria	Criteria for Calculating the Efficiency of HEPA Filters During and After	23-0563
Cyclic	A Systematic Study on the Effectiveness of Mono Alkyl Iodides of Cyclic	21-0394
D&D	Ventilation System Design for Control of Radioactive Airborne Particulates	23-0784
D3803-89	An Evaluation of Efforts by Nuclear Power Plants to Use ASTM D3803-89	23-0078
DI-PAS	Direct Post-Accident Sampling System for Containment Atmospheres	22-0283
DMSO	Degradation of HEPA Filters Exposed to DMSO	23-0695
DOP	An Update: DOP Replacement in Testing Machines for Filters and	22-0146
DOP	Aerosol Concentrations Produced by a Laskin Nozzle Generator a	21-0109

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
DOP	Safe Replacement Materials for DOP in "Hot Smoke" Aerosol	21-0126
DOP	New Performance Data for "Emery 3002" and "Emery 3004," Two	23-0743
DOP	Comparison of Emery 3004 and 3006 Characteristics with DOP for	23-0758
Damage	Potential for HEPA Filter Damage from Water Spray Systems in Filter	24-0752
Dampers	Leak Testing of Bubble-Tight Dampers Using Tracer Gas Techniques	23-0391
Deactivation	Heating, Ventilating, and Air Conditioning Deactivation Thermal Analysis	24-0471
Decadal	IAEA Decadal Activities in the Field of Radioactive Gaseous Waste	21-0635
Decommissioning	Atmospheric Discharges from Nuclear Facilities during Decommissioning:	24-0460
Decontamination	Experimental Study on the Volatile Ruthenium Decontamination Factor of	22-0244
Decontamination	Ventilation System Design for Control of Radioactive Airborne Particulates	23-0784
Deep	The Effect of Media Area on the Dust Holding Capacity of Deep Pleat	24-0743
Degradation	Degradation of HEPA Filters Exposed to DMSO	23-0695
Demilitarization	Adaptation of Nuclear Filtration Technology to the Demilitarization of	21-0419
Demonstration	Demonstration of Carbon-14 Removal at Candu Nuclear Generating	21-0530
Demonstration	The Integrated Melter Off-Gas Treatment Systems at the West Valley	23-0016
Deposition	Experimental Study on the Particles Deposition in the Sampling Duct	23-0539
Deposition	Aerosol Deposition In Bends with Turbulent Flow	24-0441
Depression	Constant Depression Fan System: A Novel Glovebox Ventilation System	23-0404
Design	Design of a Prefilter to Improve Radiation Protection and Filtering	22-0443
Design	Development of Computer Design System for HVAC System	22-0781
Design	Design and Characteristics of Annulus Ventilation and HVAC System for	22-0791
Design	Design Basis Documentation for the Control Room Ventilation/Chilled	21-0526
Design	Containment Venting Sliding Pressure Venting Process for PWR and	21-0876
Design	Investigations into the Design of a Filter System for PWR Containment	21-0898
Design	Impact of the Filtered Venting System Design Upon the Total Radioactive	21-0933
Design	Design and Full Scale Test of a Sand Bed Filter	21-0946



24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Design	The Development and Design of the Off-Gas Treatment System for the	23-0333
Design	An Introduction to the Design, Commissioning, and Operation of Nuclear	23-0439
Design	Criteria for Calculating the Efficiency of HEPA Filters During and After	23-0563
Design	Experimental Study of Elementary Collection Efficiency of Aerosols by	23-0682
Design	Ventilation System Design for Control of Radioactive Airborne Particulates	23-0784
Design	A Thick Homogeneous Vegetated Cover Design Proves Cost- and	24-0118
Design	Practical Experience Applied to the Design of Injection and Sample	24-0132
Designs	GE's Advanced Nuclear Reactor Designs	22-0043
Detection	A New Method for In-Situ Filter Testing Using Pulses of Aerosol and	22-0154
Detection	Real-Time Detection of a Fluorescent Aerosol Application to the Efficiency	21-0095
Detection	Accuracy Improvement in Leak Detection of Charcoal Adsorbers by	24-0176
Detection	The Influence of Salt Aerosol on Alpha Radiation Detection by WIPP	24-0188
Detector	Development of Real Time Detector for Fluorescent Particles	24-0163
Detector	Method for HEPA Filter Leak Scanning with Differentiating Aerosol	24-0671
Device	Experimental Study of Elementary Collection Efficiency of Aerosols by	23-0682
Device	Study on Collecting Efficiency of Fission Products by Spray:	24-0500
Diamines	A Systematic Study on the Effectiveness of Mono Alkyl Iodides of Cyclic	21-0394
Difference	Predicting Mass Loading as a Function of Pressure Difference Across	22-0554
Differentiating	Method for HEPA Filter Leak Scanning with Differentiating Aerosol	24-0671
Difficulty	The Difficulty of Testing Non-509 Systems to the N510 Standard	21-0318
Diffusional	Diffusional Analysis of the Adsorption of Methyl Iodide on Silver	24-0576
Directions	Department of Energy Directions in Environment, Safety, and Health	21-0005
Discharge	The Development of Corona Discharge for Iodine Removal from Nuclear	22-0102
Discharges	Atmospheric Discharges from Nuclear Facilities during Decommissioning:	24-0460
Dismantlement	Ventilation System Design for Control of Radioactive Airborne Particulates	23-0784
Disposal	Air Cleaning Technologies for the Management and Disposal of	21-0028

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Disposal	Generation and Release of Radioactive Gases in LLW Disposal Facilities	23-0115
Disposal	Disposal of Slightly Contaminated Radioactive Wastes from Nuclear	23-0138
Dissolution	Dissolution Off-Gas Characterization at the Marcoule Pilot Facility: Iodine	22-0053
Dissolution	Behavior of Iodine in the Dissolution of Spent Nuclear Fuels	24-0550
Dissolver	Removal of Iodine-129 from Dissolver Off-Gas of Reprocessing Plant by	22-0118
Dissolver	Technical Scale Iodine Expulsion from the Dissolver Solution and Balance	21-0247
Dissolver	Iodine and NOx Behavior in the Dissolver Off-Gas and Iodex Systems in	21-0271
Dissolving	Development of an Air Cleaning System for Dissolving High Explosives	24-0089
Distribution	Iodine-129 Distribution and Retention During Evaporation of MWL	21-0234
Division	AG-1 Division IV, Section TB: Field Testing of Gas Processing Systems	21-0198
Divisions	Overview of Divisions I and II	21-0189
Documentation	Design Basis Documentation for the Control Room Ventilation/Chilled	21-0526
Dose	A Real-Time Stack Radioactivity Monitoring System and Dose Projection	23-0259
Dose	Potential Radionuclide Emissions from Stacks on the Hanford Site, Part 2:	23-0269
Dose	Potential Radionuclide Emissions from Stacks on the Hanford Site, Part 1:	23-0498
Draft	Notes on the Draft NUREG Report Accident Source Terms for	22-0734
Draft	Section TA Acceptance Testing, Draft Revision 03/06/96	24-0203
Draft	ASME N511-19xx, Standard for Periodic In-Service Testing of Nuclear Air	24-0264
Droplets	Behavior of the Loaded Polygonal HEPA Filter Exposed to Water Droplets	22-0534
Droplets	Behavior of the Polygonal HEPA Filter Exposed to Water Droplets Carried	21-0772
Drum	Validation Testing of Radioactive Waste Drum Filter Vents	24-0683
Duct	Experimental Study on the Particles Deposition in the Sampling Duct	23-0539
Ducts	New Injection System for a Short Mixing of Test Aerosols and Gas	21-0080
Ducts	Optimization of Air Ducts for Nuclear Reactor Power Generation Station	21-0695
Ductwork	Effects of Filter Housing and Ductwork Configuration on Air Flow	22-0205
Ductwork	Ductwork Section (SA) Improvements	22-0488

## 24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Dust	The Application of HEPA Filter Units in Gas Streams of High Dust	22-0540
Dust	The Dust Holding Capacity of HEPA Filters	21-0155
Dust	The Development of a HEPA Filter with Improved Dust Holding	23-0176
Dust	The Effect of Media Area on the Dust Holding Capacity of Deep Pleat	24-0743
Dutch	The Dutch Nuclear Programs	21-0968
EPA	EPA Perspective on Radionuclide Aerosol Sampling	23-0241
Earthquakes	Performance of HEPA Filters at LLNL Following the 1980 and 1989	23-0425
Editions	A Review of the History, Revisions and Interrelationships of ANSI/ASME	21-0320
Effectiveness	The Experience with the Effectiveness of Filtering Systems for the	22-0393
Effectiveness	A Simplified Test Procedure for Determining the Effectiveness of	22-0637
Effectiveness	A Systematic Study on the Effectiveness of Mono Alkyl Iodides of Cyclic	21-0394
Effluent	Confirmation of Automatic Flow Control for a Gaseous Effluent Sampling	21-0415
Effluents	Elimination of Iodine from Radioactive Gaseous Effluents in a Packed	21-0259
Elevated	Development and Evaluation of a HEPA Filter for Increased Strength and	22-0617
Elimination	Elimination of Iodine from Radioactive Gaseous Effluents in a Packed	21-0259
Emergency	CAIRE - A Real-Time Feedback System for Emergency Response	21-0646
Emery	New Performance Data for "Emery 3002" and "Emery 3004," Two	23-0743
Emery	New Performance Data for "Emery 3002" and "Emery 3004," Two	23-0743
Emery	Comparison of Emery 3004 and 3006 Characteristics with DOP for	23-0758
Emissions	Tritium Emissions Reduction Facility (TERF)	22-0065
Emissions	BARCT: A Conservative Approach to Regulating Radionuclide Emissions	22-0233
Emissions	Measurement of Cesium Emissions During the Vitrification of Simulated	22-0253
Emissions	Steps Towards the Minimization of Particulate Emissions From a	21-0510
Emissions	Radionuclide Air Emissions at Department of Energy Facilities	23-0233
Emissions	Potential Radionuclide Emissions from Stacks on the Hanford Site, Part 2:	23-0269
Emissions	Potential Radionuclide Emissions from Stacks on the Hanford Site, Part 1:	23-0498

## 24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Emphasis	The Phebus FP Integral Source Term Experimental Project with	22-0464
Emphasis	Challenges of Equipment Qualification Using Today's Standards with	23-0034
Engineered	Heater Selection Criteria for Engineered Safety Features Atmosphere	22-0820
Engineered	US NRC Regulatory Guidance for Engineered Safety Feature Air	21-0626
Envelope	Control Room Envelope Unfiltered Air Inleakage Test Protocols	24-0400
Environment	Effect of Filtering at Containment Venting on the Consequences for the	22-0753
Environment	Department of Energy Directions in Environment, Safety, and Health	21-0005
Environment	Changing Winds in NRC's Regulatory Environment	21-0343
Equipment	Iodine and NOx Behavior in the Dissolver Off-Gas and Iodex Systems in	21-0271
Equipment	Challenges of Equipment Qualification Using Today's Standards with	23-0034
Estimate	Alternatives to Current Procedures Used to Estimate Concentrations in	21-0714
European	High Efficiency and Ultra Low Penetration Aerosol Filter Test Programs by	22-0324
European	European Community Nuclear Codes and Standards	21-0212
European	Impact of the Filtered Venting System Design Upon the Total Radioactive	21-0933
European	Performance Testing of HEPA Filters: Progress Towards a European	24-0819
Evaporation	Iodine-129 Distribution and Retention During Evaporation of MWL	21-0234
Event	A View of Licensee Event Reports - Relating to Nuclear Air Treatment	22-0899
Event	Impacts of the Filter Clogging on the Behaviour of a Ventilation Network in	21-0815
Evolutionary	Air Cleaning Requirements for Evolutionary and Advanced Reactors	21-0016
Exchanged	Diffusional Analysis of the Adsorption of Methyl Iodide on Silver	24-0576
Exclusion	Extended-Life Nuclear Air Cleaning Filters Via Dynamic Exclusion	24-0788
Exhaust	Treatment of Tritiated Exhaust Gases at the Tritium Laboratory Karlsruhe	23-0365
Experience	The Experience with the Effectiveness of Filtering Systems for the	22-0393
Experience	Experience with Ontario Hydro's In Place Carbon Filter Testing	22-0672
Experience	Practical Experience Applied to the Design of Injection and Sample	24-0132
Experiences	Testing of Non-N509 Filter Systems - Audit Experiences at McGuire	21-0329

## 24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Experiences	Comments on Testing of Non-N509 Filter Systems - Audit Experiences at	21-0332
Experiences	Atmospheric Discharges from Nuclear Facilities during Decommissioning:	24-0460
Expertise	Response of NRC Region III to Perceived Lack of Filter Testing Expertise	22-0762
Explosives	Development of an Air Cleaning System for Dissolving High Explosives	24-0089
Expulsion	A Study on the Expulsion of Iodine from Spent-Fuel Solutions	23-0321
Exposed	Behavior of the Loaded Polygonal HEPA Filter Exposed to Water Droplets	22-0534
Exposed	Behavior of the Polygonal HEPA Filter Exposed to Water Droplets Carried	21-0772
Exposed	Degradation of HEPA Filters Exposed to DMSO	23-0695
Exposure	Effects on the Efficiency of Activated Carbon on Exposure to Welding	23-0639
Expulsion	Technical Scale Iodine Expulsion from the Dissolver Solution and Balance	21-0247
Extended-Life	Extended-Life Nuclear Air Cleaning Filters Via Dynamic Exclusion	24-0788
FBR	Design and Characteristics of Annulus Ventilation and HVAC System for	22-0791
FP	The Phebus FP Integral Source Term Experimental Project with	22-0464
Face	A General Correlation of MPPS Penetration as a Function of Face	24-0698
Facilities	Application of High-Efficiency Metal Fiber Filters in Ventilation Systems of	22-0574
Facilities	Development of a Process for Adsorptive Separation of KR-85 from the	21-0299
Facilities	HEPA Filter Testing - Department of Energy Office of Nuclear Energy	23-0087
Facilities	Integrating Industry Nuclear Codes and Standards into United States	23-0098
Facilities	Generation and Release of Radioactive Gases in LLW Disposal Facilities	23-0115
Facilities	Radionuclide Air Emissions at Department of Energy Facilities	23-0233
Facilities	Guide to Sampling Airborne Radioactive Materials in Nuclear Facilities	23-0250
Facilities	Gas Processing at DOE Nuclear Facilities	23-0301
Facilities	The Actual Practice of Air Cleaning in Belgian Nuclear Facilities	23-0432
Facilities	Review of In-Place HEPA Filter Testing at Several DOE Facilities	23-0766
Facilities	Atmospheric Discharges from Nuclear Facilities during Decommissioning:	24-0460
Facility	Dissolution Off-Gas Characterization at the Marcoule Pilot Facility: Iodine	22-0053

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Facility	Tritium Emissions Reduction Facility (TERF)	22-0065
Facility	Post-Accident Air Leakage Analysis in a Nuclear Facility via T-Method	22-0374
Facility	Development of a Personal Computer Code for Fire Protection Analysis of	22-0875
Facility	Iodine and NOx Behavior in the Dissolver Off-Gas and Iodex Systems in	21-0271
Facility	Review of Department of Energy Filter Test Facility and Filter Test Facility	21-0385
Facility	Review of Department of Energy Filter Test Facility and Filter Test Facility	21-0385
Facility	Field Measurement of the Performance of Air Cleaning Systems to	21-0435
Facility	Behavior and Control of Ruthenium During Operation of the New Waste	21-0467
Facility	Steps Towards the Minimization of Particulate Emissions From a	21-0510
Facility	Calculation Code Evaluating the Confinement of a Nuclear Facility in	23-0412
Fall-Out	The Experience with the Effectiveness of Filtering Systems for the	22-0393
Fan	Constant Depression Fan System: A Novel Glovebox Ventilation System	23-0404
Feedback	CAIRE - A Real-Time Feedback System for Emergency Response	21-0646
Fiber	Application of High-Efficiency Metal Fiber Filters in Ventilation Systems of	22-0574
Fibers	Chronic Inhalation Studies of Man-Made Vitreous Fibers	22-0191
Fibers	New Type Adsorbent Material of Impregnated Activated Carbon Fibers for	21-0545
Field	Field Testing of Nuclear Air Treatment and Gas Processing Systems	21-0193
Field	AG-1 Division IV, Section TB: Field Testing of Gas Processing Systems	21-0198
Field	Field Measurement of the Performance of Air Cleaning Systems to	21-0435
Field	IAEA Decadal Activities in the Field of Radioactive Gaseous Waste	21-0635
Field	Preliminary Field Evaluation of High Efficiency Steel Filters	23-0195
Filed	A View of Licensee Event Reports - Relating to Nuclear Air Treatment	22-0899
Filter	A New Method for In-Situ Filter Testing Using Pulses of Aerosol and	22-0154
Filter	Development of the Quickmix Injector for In-Situ Filter Testing	22-0163
Filter	Review of Department of Energy HEPA Filter Test Activities FY 1990 - FY	22-0177
Filter	Effects of Filter Housing and Ductwork Configuration on Air Flow	22-0205

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE  
21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Filter	Effects of Filter Housing and Ductwork Configuration on Air Flow	22-0205
Filter	High Efficiency and Ultra Low Penetration Aerosol Filter Test Programs by	22-0324
Filter	The Effects of Temperature on HEPA Filter Media	22-0327
Filter	Filter Sections of ASME AG-1, Code on Nuclear Air and Gas Treatment	22-0491
Filter	Behavior of the Loaded Polygonal HEPA Filter Exposed to Water Droplets	22-0534
Filter	The Application of HEPA Filter Units in Gas Streams of High Dust	22-0540
Filter	Predicting Mass Loading as a Function of Pressure Difference Across	22-0554
Filter	Development and Evaluation of a Cleanable High Efficiency Steel Filter	22-0586
Filter	Development and Evaluation of a HEPA Filter for Increased Strength and	22-0617
Filter	Experience with Ontario Hydro's In Place Carbon Filter Testing	22-0672
Filter	Response of NRC Region III to Perceived Lack of Filter Testing Expertise	22-0762
Filter	Development of Filter Systems - Part 2, Injection Systems and Multi-Point	21-0139
Filter	Testing of Non-N509 Filter Systems - Audit Experiences at McGuire	21-0329
Filter	Comments on Testing of Non-N509 Filter Systems - Audit Experiences at	21-0332
Filter	Progress Report on the In-Place Acceptance Tests of Walk-In Plenum	21-0360
Filter	Review of Department of Energy Filter Test Facility and Filter Test Facility	21-0385
Filter	Review of Department of Energy Filter Test Facility and Filter Test Facility	21-0386
Filter	Type II HEPA Filter	21-041
Filter	Technical Brief Stainless Steel Filter for Nuclear Air Cleaning	21-041
Filter	New Type Adsorbent Material of Impregnated Activated Carbon Fibers for	21-05
Filter	Mathematical Models for Changes in HEPA Filter Pressure Drop Caused	21-0
Filter	A Permanently Magnetized High Gradient Magnetic Filter for Glove-Box	21-0
Filter	A Permanently Magnetized High Gradient Magnetic Filter for Glove-Box	21-
Filter	Behavior of the Polygonal HEPA Filter Exposed to Water Droplets Carried	21
Filter	Efficiency and Mass Loading Characteristics of a Typical HEPA Filter	2'
Filter	Impacts of the Filter Clogging on the Behaviour of a Ventilation Network in	2

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Filter	Investigations into the Design of a Filter System for PWR Containment	21-0898
Filter	Design and Full Scale Test of a Sand Bed Filter	21-0946
Filter	Effects of the Particle Penetration Inside the Filter Medium on the HEPA	21-0128
Filter	Effects of the Particle Penetration Inside the Filter Medium on the HEPA	21-0128
Filter	Evaluation of Self-Contained HEPA Filter	23-0054
Filter	ASME N510 Test Results for Savannah River Site AACS Filter	23-0068
Filter	HEPA Filter Testing - Department of Energy Office of Nuclear Energy	23-0087
Filter	HEPA Filter Concerns - An Overview	23-0150
Filter	A Novel Permanently Magnetized High Gradient Magnetic Filter Using	23-0158
Filter	The Development of a HEPA Filter with Improved Dust Holding	23-0176
Filter	Effect of Humidity on the Filter Pressure Drop	23-0187
Filter	A Low Pressure Filter System for New Containment Concepts	23-0478
Filter	Proposed Retrofit of HEPA Plenums with Injection and Sampling	23-0721
Filter	New Performance Data for "Emery 3002" and "Emery 3004," Two	23-0743
Filter	Comparison of Emery 3004 and 3006 Characteristics with DOP for	23-0758
Filter	Review of In-Place HEPA Filter Testing at Several DOE Facilities	23-0766
Filter	Standardized Methods for In-Place Filter Testing	24-0386
Filter	Charcoal Filter Testing	24-0395
Filter	Removal Efficiency of Silver Impregnated Filter Materials and	24-0609
Filter	A Review of DOE HEPA Filter Component Test Activities: FY-1994	24-0631
Filter	In-Place HEPA Filter Efficiency Tests	24-0649
Filter	Method for HEPA Filter Leak Scanning with Differentiating Aerosol	24-0671
Filter	Uncertainty In-Place Filter Test Results	24-0676
Filter	Validation Testing of Radioactive Waste Drum Filter Vents	24-0683
Filter	Further Development of the Cleanable Steel HEPA Filter and Comparison	24-0708
Filter	Potential for HEPA Filter Damage from Water Spray Systems in Filter	24-0752



24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE  
 21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
 KWCC INDEX ON CONFERENCE TITLES

Keywords	Title	Conference No. - Page
Filter	Potential for HEPA Filter Damage from Water Spray Systems in Filter	24-0752
Filter-Adsorber	Filter-Adsorber Aging Assessment	23-0583
Filtered	Impact of the Filtered Venting System Design Upon the Total Radioactive	21-0933
	Effect of Filtering at Containment Venting on the Consequences for the	22-0755
	The Experience with the Effectiveness of Filtering Systems for the	22-0393
	Beta Experiments on Aerosol Release During Melt-Concrete Interaction	22-0415
Filter	Design of a Prefilter to Improve Radiation Protection and Filtering	22-0440
Filters	The Phobos FF Integral Source Term Experimental Project with	22-0464
Filters	Updated DCP Replacement in Testing Machines for Filters and	22-0143
Filters	Testing of Salt Loaded HEPA Filters for WPP	22-0262
Filters	High-Efficiency Metal Fiber Filters in Ventilation Systems of	22-0574
Filters	Real-Time Costs of Glass-Paper HEPA Filters	22-0849
Filters	High Efficiency Media Air Filters	22-0832
Filters	The Dust Holding Capacity of Fluorescent Aerosol Application to the Efficiency	21-0955
Filters	Progress Report on HEPA Filters	21-0155
Filters	Investigation of Salt Loaded High Efficiency Tests of Walk-In Plenum	21-0360
Filters	High Efficiency Steel Filters for Nuclear Air Cleaning	21-0366
Filters	A Single Standard for In-Place Testing of CO <sub>2</sub> HEPA Filters	21-0735
Filters	Preliminary Field Evaluation of High Efficiency Steel Filters	23-0096
Filters	Performance of HEPA Filters at LLNL Following the 1980 and 1989	23-0106
Filters	Criteria for Calculating the Efficiency of HEPA Filters During and After	23-0425
Filters	Performance of HEPA Filters Under Hot Dynamic Conditions	23-0563
Filters	Preliminary Studies to Determine the Shelf Life of HEPA Filters	23-0607
Filters	Degradation of HEPA Filters Exposed to DMSO	23-0613
Filters	Removal Efficiency of Silver Impregnated Filter Materials and	23-0695
		24-0609

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE  
21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Filters	The Effect of Media Area on the Dust Holding Capacity of Deep Pleat	24-0743
Filters	Extended-Life Nuclear Air Cleaning Filters Via Dynamic Exclusion	24-0788
Filters	Performance Testing of HEPA Filters: Progress Towards a European	24-0819
Filters	Panel Session: Changes to ASME Code AG-1, Section FC, HEPA Filters	24-0850
Filtration	A Review of Gas Phase Filtration Standards and their Applicability to	22-0215
Filtration	Modern Technology Tools for Improvement of NPP Reliability-Case Study	22-0808
Filtration	Heater Selection Criteria for Engineered Safety Features Atmosphere	22-0
Filtration	Concept for a Passive Heat Removal and Filtration System Under Core	
Filtration	Adaptation of Nuclear Filtration Technology to the Demilitarization of	
Filtration	Aerosol Penetration Inside HEPA Filtration Media	21-0815
Filtration	Filtration Theory Using Computer Simulations	21-0844
Fire	Development of a Personal Computer Code for Fire F	23-0412
Fire	Impacts of the Filter Clogging on the Behaviour of a Facility in	24-0500
Fires	Pool Fires in a Large Scale Ventilation System by Spray:	22-0205
Fires	Calculation Code Evaluating the Con	22-0527
Fission	Study on Collecting Efficiency of Configuration on Air Flow	22-0534
Flow	Effects of Filter Housing in the Nuclear Industry	21-0415
Flow	Radial Flow System	21-0772
Flow	Behavior of a Loaded Polygonal HEPA Filter Exposed to Water Droplets	24-0441
Flow	Confirmation of Automatic Flow Control for a Gaseous Effluent Sampling	21-0095
Flow	Behavior of the Polygonal HEPA Filter Exposed to Water Droplets Carried	24-016
Flow	Aerosol Deposition In Bends with Turbulent Flow	21-05
Fluorescent	Real-Time Detection of a Fluorescent Aerosol Application to the Efficiency	21-0
Fluorescent	Development of Real Time Detector for Fluorescent Particles	
Forms	Removal Characteristics of Some Organic Iodine Forms by Silver	
Fractions	Technical Scale Iodine Expulsion from the Dissolver Solution and Balance	

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
France	Nuclear Air Cleaning Programs in Progress in France	21-0978
Fuel	The Development of Corona Discharge for Iodine Removal from Nuclear	22-0102
Fuel	Simulation Test of Aerosol Generation from Vessels in the Pretreatment	24-0778
Fuels	Behavior of Iodine in the Dissolution of Spent Nuclear Fuels	24-0550
Fumes	Effects on the Efficiency of Activated Carbon on Exposure to Welding	23-0639
Fumes	Effects of Welding Fumes on Nuclear Air Cleaning System Carbon	24-0525
Function	Predicting Mass Loading as a Function of Pressure Difference Across	22-0554
Function	A General Correlation of MPPS Penetration as a Function of Face	24-0698
Future	Proposed Source Term Revisions Potential Impact on Future Nuclear Air	22-0736
Future	DOE Waste Management Program-Current and Future	22-0716
GE's	GE's Advanced Nuclear Reactor Designs	22-0043
Gamma	Potential Radionuclide Emissions from Stacks on the Hanford Site, Part 2:	23-0269
Gas	A Review of Gas Phase Filtration Standards and their Applicability to	22-0215
Gas	Code on Nuclear Air and Gas Treatment ASME/ANSI AG-1	22-0485
Gas	Filter Sections of ASME AG-1, Code on Nuclear Air and Gas Treatment	22-0491
Gas	The Application of HEPA Filter Units in Gas Streams of High Dust	22-0540
Gas	New Injection System for a Short Mixing of Test Aerosols and Gas	21-0080
Gas	Field Testing of Nuclear Air Treatment and Gas Processing Systems	21-0193
Gas	AG-1 Division IV, Section TB: Field Testing of Gas Processing Systems	21-0198
Gas	Gas Processing in the Nuclear Industry	23-0294
Gas	Gas Processing at DOE Nuclear Facilities	23-0301
Gas	Leak Testing of Bubble-Tight Dampers Using Tracer Gas Techniques	23-0391
Gas	Unit Vent Airflow Measurements Using a Tracer Gas Technique	24-0147
Gas	International Panel Reports on Nuclear Air and Gas Cleaning Activities	24-0380
Gas	The First Twenty Years of the ASME Committee on Nuclear Air and Gas	24-0807
Gaseous	Technical Scale Iodine Expulsion from the Dissolver Solution and Balance	21-0247

## 24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Gaseous	Elimination of Iodine from Radioactive Gaseous Effluents in a Packed	21-0259
Gaseous	Confirmation of Automatic Flow Control for a Gaseous Effluent Sampling	21-0415
Gaseous	IAEA Decadal Activities in the Field of Radioactive Gaseous Waste	21-0635
Gases	Control Room Inleakage Testing Using Tracer Gases at Zion Generating	22-0830
Gases	Generation and Release of Radioactive Gases in LLW Disposal Facilities	23-0115
Gases	Treatment of Tritiated Exhaust Gases at the Tritium Laboratory Karlsruhe	23-0365
Generated	Characteristics of Laskin Nozzle Generated Aerosols	21-0116
Generating	Control Room Inleakage Testing Using Tracer Gases at Zion Generating	22-0830
Generating	Demonstration of Carbon-14 Removal at Candu Nuclear Generating	21-0530
Generation	Optimization of Air Ducts for Nuclear Reactor Power Generation Station	21-0695
Generation	Generation and Release of Radioactive Gases in LLW Disposal Facilities	23-0115
Generation	Simulation Test of Aerosol Generation from Vessels in the Pretreatment	24-0778
Generator	Aerosol Concentrations Produced by a Laskin Nozzle Generator a	21-0109
Generic	Changes in Adsorber Testing as a Result of NRC Generic Information	21-0607
Generic	Value-Impact Assessment for Resolution of Generic Safety Issue 143 -	23-0380
German	Atmospheric Discharges from Nuclear Facilities during Decommissioning:	24-0460
German	Control of Radio-Iodine at the German Reprocessing Plant Wak During	24-0618
Germany	The Experience with the Effectiveness of Filtering Systems for the	22-0393
Germany	Nuclear Air Cleaning Activities in Germany	21-0981
Glass-Paper	Survey of Life-Cycle Costs of Glass-Paper HEPA Filters	22-0849
Global	Global Change and the Practice for Airborne Waste Treatment	22-0004
Glove-Box	A Permanently Magnetized High Gradient Magnetic Filter for Glove-Box	21-0762
Glovebox	Constant Depression Fan System: A Novel Glovebox Ventilation System	23-0404
Grade	A Systematic Study on the Effectiveness of Mono Alkyl Iodides of Cyclic	21-0394
Gradient	A Permanently Magnetized High Gradient Magnetic Filter for Glove-Box	21-0762
Gradient	A Novel Permanently Magnetized High Gradient Magnetic Filter Using	23-0158

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Guidance	US NRC Regulatory Guidance for Engineered Safety Feature Air	21-0626
Guide	Guide to Sampling Airborne Radioactive Materials in Nuclear Facilities	23-0250
HEPA	Review of Department of Energy HEPA Filter Test Activities FY 1990 - FY	22-0177
HEPA	Structural Testing of Salt Loaded HEPA Filters for WIPP	22-0262
HEPA	The Effects of Temperature on HEPA Filter Media	22-0327
HEPA	Behavior of the Loaded Polygonal HEPA Filter Exposed to Water Droplets	22-0534
HEPA	The Application of HEPA Filter Units in Gas Streams of High Dust	22-0540
HEPA	Development and Evaluation of a HEPA Filter for Increased Strength and	22-0617
HEPA	Survey of Life-Cycle Costs of Glass-Paper HEPA Filters	22-0849
HEPA	Real-Time Detection of a Fluorescent Aerosol Application to the Efficiency	21-0095
HEPA	The Dust Holding Capacity of HEPA Filters	21-0155
HEPA	Investigation of Salt Loaded HEPA Filters	21-0366
HEPA	Type II HEPA Filter	21-0410
HEPA	Mathematical Models for Changes in HEPA Filter Pressure Drop Caused	21-0671
HEPA	A Permanently Magnetized High Gradient Magnetic Filter for Glove-Box	21-0762
HEPA	Behavior of the Polygonal HEPA Filter Exposed to Water Droplets Carried	21-0772
HEPA	Efficiency and Mass Loading Characteristics of a Typical HEPA Filter	21-0782
HEPA	Aerosol Penetration Inside HEPA Filtration Media	21-0799
HEPA	Effects of the Particle Penetration Inside the Filter Medium on the HEPA	21-0128
HEPA	Evaluation of Self-Contained HEPA Filter	23-0054
HEPA	HEPA Filter Testing - Department of Energy Office of Nuclear Energy	23-0087
HEPA	A Single Standard for In-Place Testing of DOE HEPA Filters	23-0096
HEPA	HEPA Filter Concerns - An Overview	23-0150
HEPA	The Development of a HEPA Filter with Improved Dust Holding	23-0176
HEPA	Performance of HEPA Filters at LLNL Following the 1980 and 1989	23-0425
HEPA	Criteria for Calculating the Efficiency of HEPA Filters During and After	23-0563

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
HEPA	Performance of HEPA Filters Under Hot Dynamic Conditions	23-0601
HEPA	Preliminary Studies to Determine the Shelf Life of HEPA Filters	23-0613
HEPA	Degradation of HEPA Filters Exposed to DMSO	23-0695
HEPA	Proposed Retrofit of HEPA Plenums with Injection and Sampling	23-0721
HEPA	Comparison of Emery 3004 and 3006 Characteristics with DOP for	23-0758
HEPA	Review of In-Place HEPA Filter Testing at Several DOE Facilities	23-0766
HEPA	Testing Cleanable/Reusable HEPA Prefilters for Mixed Waste Incinerator	24-0076
HEPA	A Review of DOE HEPA Filter Component Test Activities: FY-1994	24-0631
HEPA	In-Place HEPA Filter Efficiency Tests	24-0649
HEPA	Method for HEPA Filter Leak Scanning with Differentiating Aerosol	24-0671
HEPA	Further Development of the Cleanable Steel HEPA Filter and Comparison	24-0708
HEPA	The Effect of Media Area on the Dust Holding Capacity of Deep Pleat	24-0743
HEPA	Potential for HEPA Filter Damage from Water Spray Systems in Filter	24-0752
HEPA	Performance Testing of HEPA Filters: Progress Towards a European	24-0819
HEPA	Panel Session: Changes to ASME Code AG-1, Section FC, HEPA Filters	24-0850
HEPA-Filter	The Case for Improved HEPA-Filter Mechanical Performance Standards	24-0829
HLLW	Behavior of Ruthenium in the Case of Shutdown of the Cooling System of	21-0831
HVAC	Development of Computer Design System for HVAC System	22-0781
HVAC	Design and Characteristics of Annulus Ventilation and HVAC System for	22-0791
HVAC	Value-Impact Assessment for Resolution of Generic Safety Issue 143 -	23-0380
Habitability	Revised Accident Source Terms and Control Room Habitability	22-0742
Halide	Halide Test Agent Replacement Study	23-0313
Halide	Accuracy Improvement in Leak Detection of Charcoal Adsorbers by	24-0176
Hanford	Potential Radionuclide Emissions from Stacks on the Hanford Site, Part 2:	23-0269
Hanford	Potential Radionuclide Emissions from Stacks on the Hanford Site, Part 1:	23-0498
Hanford	Progress and Challenges in Cleaning Up Hanford	24-0335

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Heads	Development of an Air Cleaning System for Dissolving High Explosives	24-0089
Health	Department of Energy Directions in Environment, Safety, and Health	21-0005
Health	Radiological Health Effects Models for Nuclear Power Plant Accident	21-0057
Heat	Activated Charcoal Beds for Passive Mitigation of the Radioactivity	22-0428
Heat	Concept for a Passive Heat Removal and Filtration System Under Core	22-0863
Heater	Heater Selection Criteria for Engineered Safety Features Atmosphere	22-0820
Heating	A View of Licensee Event Reports - Relating to Nuclear Air Treatment	22-0899
Heating	ASME N511-19xx, Standard for Periodic In-Service Testing of Nuclear Air	24-0264
Heating	Heating, Ventilating, and Air Conditioning Deactivation Thermal Analysis	24-0471
High-Efficiency	Application of High-Efficiency Metal Fiber Filters in Ventilation Systems of	22-0574
History	A Review of the History, Revisions and Interrelationships of ANSI/ASME	21-0320
History	A Brief History of the Air Cleaning Conferences	23-0003
Homogeneous	A Thick Homogeneous Vegetated Cover Design Proves Cost- and	24-0118
Hot	Safe Replacement Materials for DOP in "Hot Smoke" Aerosol	21-0126
Housing	Effects of Filter Housing and Ductwork Configuration on Air Flow	22-0205
Housings	Effects of Filter Housing and Ductwork Configuration on Air Flow	22-0205
Housings	Progress Report on the In-Place Acceptance Tests of Walk-In Plenum	21-0360
Humidity	Mathematical Models for Changes in HEPA Filter Pressure Drop Caused	21-0671
Humidity	Effect of Humidity on the Filter Pressure Drop	23-0187
Hungary	Nuclear Air Cleaning Programs in Hungary	21-0986
Hydro's	Experience with Ontario Hydro's In Place Carbon Filter Testing	22-0672
Hydrogen	Parametric Studies of Radioactive Iodine, Hydrogen Iodide and Methyl	22-0646
IA	Instrument & Controls Section (IA) Improvements	22-0490
IAEA	IAEA Decadal Activities in the Field of Radioactive Gaseous Waste	21-0635
IATEMA	Iodine Stripping from Nitric Solutions in IATEMA	22-0091
Idaho	Behavior and Control of Ruthenium During Operation of the New Waste	21-0467

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Impact	Proposed Source Term Revisions Potential Impact on Future Nuclear Air	22-0736
Impact	Impact of the Filtered Venting System Design Upon the Total Radioactive	21-0933
Impacts	Impacts of the Filter Clogging on the Behaviour of a Ventilation Network in	21-0815
Implications	Revision of Reactor Accident Source Terms and Implications for Nuclear	22-0362
Impregnant	A Systematic Study on the Effectiveness of Mono Alkyl Iodides of Cyclic	21-0394
Impregnated	Removal of Iodine-129 from Dissolver Off-Gas of Reprocessing Plant by	22-0118
Impregnated	New Type Adsorbent Material of Impregnated Activated Carbon Fibers for	21-0545
Impregnated	Removal Characteristics of Some Organic Iodine Forms by Silver	21-0594
Impregnated	Development of Silver Impregnated Alumina for Iodine Separation from	23-0352
Impregnated	Removal Efficiency of Silver Impregnated Filter Materials and	24-0609
Impurities	Influences of Impurities on Iodine Removal Efficiency of Silver Alumina	24-0563
In-Place	Replacement Tracer Agent for the In-Place Leak Testing of Adsorbers in	22-0698
In-Place	Progress Report on the In-Place Acceptance Tests of Walk-In Plenum	21-0360
In-Place	A Single Standard for In-Place Testing of DOE HEPA Filters	23-0096
In-Place	Proposed Retrofit of HEPA Plenums with Injection and Sampling	23-0721
In-Place	Review of In-Place HEPA Filter Testing at Several DOE Facilities	23-0766
In-Place	Practical Experience Applied to the Design of Injection and Sample	24-0132
In-Place	Standardized Methods for In-Place Filter Testing	24-0386
In-Place	In-Place HEPA Filter Efficiency Tests	24-0649
In-Place	Uncertainty In-Place Filter Test Results	24-0676
In-Service	ASME N511-19xx, Standard for Periodic In-Service Testing of Nuclear Air	24-0264
In-Situ	A New Method for In-Situ Filter Testing Using Pulses of Aerosol and	22-0154
In-Situ	Development of the Quickmix Injector for In-Situ Filter Testing	22-0163
Incineration	The Incineration of Low Level Radioactive Wastes - Current Status	21-0488
Incineration	Steps Towards the Minimization of Particulate Emissions From a	21-0510
Incinerator	Testing Cleanable/Reusable HEPA Prefilters for Mixed Waste Incinerator	24-0076



24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Industry's	The Nuclear Industry's Plan to Achieve New Nuclear Power Plant Orders	22-0018
Information	Changes in Adsorber Testing as a Result of NRC Generic Information	21-0607
Inhalation	Chronic Inhalation Studies of Man-Made Vitreous Fibers	22-0191
Injection	New Injection System for a Short Mixing of Test Aerosols and Gas	21-0080
Injection	Development of Filter Systems - Part 2, Injection Systems and Multi-Point	21-0139
Injection	Proposed Retrofit of HEPA Plenums with Injection and Sampling	23-0721
Injection	Practical Experience Applied to the Design of Injection and Sample	24-0132
Injector	Development of the Quickmix Injector for In-Situ Filter Testing	22-0163
Inleakage	Control Room Inleakage Testing Using Tracer Gases at Zion Generating	22-0830
Inleakage	Control Room Envelope Unfiltered Air Inleakage Test Protocols	24-0400
Innovative	Application of Innovative Policies for Controlling Radionuclide Releases:	24-0040
Instrument	Instrument & Controls Section (IA) Improvements	22-0490
Integral	The Phebus FP Integral Source Term Experimental Project with	22-0464
Integrated	Iodine and NOx Behavior in the Dissolver Off-Gas and Iodex Systems in	21-0271
Integrated	The Integrated Melter Off-Gas Treatment Systems at the West Valley	23-0016
Integrating	Integrating Industry Nuclear Codes and Standards into United States	23-0098
Integration	Accuracy Improvement in Leak Detection of Charcoal Adsorbers by	24-0176
Interaction	Beta Experiments on Aerosol Release During Melt-Concrete Interaction	22-0415
International	International Panel Reports on Nuclear Air and Gas Cleaning Activities	24-0380
Interrelationships	A Review of the History, Revisions and Interrelationships of ANSI/ASME	21-0320
Introductory	Introductory Remarks	22-0731a
Introductory	Introductory Statement	21-0186
Investigations	Investigations into the Design of a Filter System for PWR Containment	21-0898
Iodide	A Simplified Test Procedure for Determining the Effectiveness of	22-0637
Iodide	Parametric Studies of Radioactive Iodine, Hydrogen Iodide and Methyl	22-0646
Iodide	Parametric Studies of Radioactive Iodine, Hydrogen Iodide and Methyl	22-0646

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Iodide	Methyl Iodide Tests on Used Adsorbents	22-0768
Iodide	Factors Affecting the Retention of Methyl Iodide by Iodide-Impregnated	21-0583
Iodide	Kinetic Modelling of the Purging of Activated Carbon After Short Term	21-0662
Iodide	Diffusional Analysis of the Adsorption of Methyl Iodide on Silver	24-0576
Iodide-Impregnated	Factors Affecting the Retention of Methyl Iodide by Iodide-Impregnated	21-0583
Iodides	A Systematic Study on the Effectiveness of Mono Alkyl Iodides of Cyclic	21-0394
Iodine	Dissolution Off-Gas Characterization at the Marcoule Pilot Facility: Iodine	22-0053
Iodine	Iodine Stripping from Nitric Solutions in IATEMA	22-0091
Iodine	The Development of Corona Discharge for Iodine Removal from Nuclear	22-0102
Iodine	The Phebus FP Integral Source Term Experimental Project with	22-0464
Iodine	Parametric Studies of Radioactive Iodine, Hydrogen Iodide and Methyl	22-0646
Iodine	Technical Scale Iodine Expulsion from the Dissolver Solution and Balance	21-0247
Iodine	Technical Scale Iodine Expulsion from the Dissolver Solution and Balance	21-0247
Iodine	Elimination of Iodine from Radioactive Gaseous Effluents in a Packed	21-0259
Iodine	Iodine and NO <sub>x</sub> Behavior in the Dissolver Off-Gas and Iodex Systems in	21-0271
Iodine	Photochemical Removal of Radioactive Iodine from Air	21-0376
Iodine	New Type Adsorbent Material of Impregnated Activated Carbon Fibers for	21-0545
Iodine	Removal Characteristics of Some Organic Iodine Forms by Silver	21-0594
Iodine	The Retention of Iodine in Stainless Steel Sample Lines	23-0279
Iodine	A Study on the Expulsion of Iodine from Spent-Fuel Solutions	23-0321
Iodine	Development of Silver Impregnated Alumina for Iodine Separation from	23-0352
Iodine	Behavior of Iodine in the Dissolution of Spent Nuclear Fuels	24-0550
Iodine	Influences of Impurities on Iodine Removal Efficiency of Silver Alumina	24-0563
Iodine	Removal Efficiency of Silver Impregnated Filter Materials and	24-0609
Iodine-129	Minimizing of Iodine-129 Release in the Karlsruhe Reprocessing Plant	22-0075
Iodine-129	Removal of Iodine-129 from Dissolver Off-Gas of Reprocessing Plant by	22-0118

## 24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Iodine-129	Retention and Measurement of Iodine-129 and of Organoiodine in the	21-0222
Iodine-129	Iodine-129 Distribution and Retention During Evaporation of MWL	21-0234
Iodox	Iodine and NO <sub>x</sub> Behavior in the Dissolver Off-Gas and Iodox Systems in	21-0271
Japanese	Air Cleaning Programs Relating to the First Japanese Commercial	21-0984
KR-85	Development of a Process for Adsorptive Separation of KR-85 from the	21-0299
Karlsruhe	Minimizing of Iodine-129 Release in the Karlsruhe Reprocessing Plant	22-0075
Karlsruhe	Retention and Measurement of Iodine-129 and of Organoiodine in the	21-0222
Karlsruhe	Treatment of Tritiated Exhaust Gases at the Tritium Laboratory Karlsruhe	23-0365
Karlsruhe	Removal Efficiency of Silver Impregnated Filter Materials and	24-0609
Keynote	Keynote Address: Nuclear Aerosols: Unfinished Business	24-0005
Kinetic	Kinetic Modelling of the Purging of Activated Carbon After Short Term	21-0662
Korea	Application of ASME Code AG-1 to YGN 3 & 4 Plants, South Korea	22-0223
Krypton-85	Measurement System for Alpha and Beta Aerosols with Wide Dynamic	21-0872
LFCM	LFCM Processing Characteristics of Mercury	21-0442
LLNL	Performance of HEPA Filters at LLNL Following the 1980 and 1989	23-0425
LLW	Generation and Release of Radioactive Gases in LLW Disposal Facilities	23-0115
Laboratory	Iodine and NO <sub>x</sub> Behavior in the Dissolver Off-Gas and Iodox Systems in	21-0271
Laboratory	Field Measurement of the Performance of Air Cleaning Systems to	21-0435
Laboratory	Treatment of Tritiated Exhaust Gases at the Tritium Laboratory Karlsruhe	23-0365
Lack	Response of NRC Region III to Perceived Lack of Filter Testing Expertise	22-0762
Laser	Simulated Performances of a Single Particle Laser Light Scattering	21-0173
Laskin	Aerosol Concentrations Produced by a Laskin Nozzle Generator a	21-0109
Laskin	Characteristics of Laskin Nozzle Generated Aerosols	21-0116
Lawrence	Field Measurement of the Performance of Air Cleaning Systems to	21-0435
Leak	Replacement Tracer Agent for the In-Place Leak Testing of Adsorbers in	22-0698
Leak	Leak Testing of Bubble-Tight Dampers Using Tracer Gas Techniques	23-0391

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Leak	Comparison of Emery 3004 and 3006 Characteristics with DOP for	23-0758
Leak	Accuracy Improvement in Leak Detection of Charcoal Adsorbers by	24-0176
Leak	Method for HEPA Filter Leak Scanning with Differentiating Aerosol	24-0671
Leakage	Post-Accident Air Leakage Analysis in a Nuclear Facility via T-Method	22-0374
Licensee	A View of Licensee Event Reports - Relating to Nuclear Air Treatment	22-0899
Licensing	Changes to Licensing for U.S. Nuclear Power Plants	22-0341
Life	A Permanently Magnetized High Gradient Magnetic Filter for Glove-Box	21-0762
Life	Preliminary Studies to Determine the Shelf Life of HEPA Filters	23-0613
Life-Cycle	Survey of Life-Cycle Costs of Glass-Paper HEPA Filters	22-0849
Light	Simulated Performances of a Single Particle Laser Light Scattering	21-0173
Light-Water	Notes on the Draft NUREG Report Accident Source Terms for	22-0734
Light-Water	Revised Accident Source Terms for Light-Water Reactors	23-0488
Lines	The Retention of Iodine in Stainless Steel Sample Lines	23-0279
Link	The Link Between Off-Site-Emergency Planning and Plant-Internal	23-0509
Liquid	Technical Scale Iodine Expulsion from the Dissolver Solution and Balance	21-0247
Livermore	Field Measurement of the Performance of Air Cleaning Systems to	21-0435
Loaded	Structural Testing of Salt Loaded HEPA Filters for WIPP	22-0262
Loaded	Aerosol Penetration Through a Seismically Loaded Shear Wall	22-0402
Loaded	Behavior of the Loaded Polygonal HEPA Filter Exposed to Water Droplets	22-0534
Loaded	Investigation of Salt Loaded HEPA Filters	21-0366
Loading	Predicting Mass Loading as a Function of Pressure Difference Across	22-0554
Loading	Kinetic Modelling of the Purging of Activated Carbon After Short Term	21-0662
Loading	Efficiency and Mass Loading Characteristics of a Typical HEPA Filter	21-0782
Losses	Aerosol Particle Losses in Sampling Systems	22-0310
Low-Level	Steps Towards the Minimization of Particulate Emissions From a	21-0510
Low-Resolution	Potential Radionuclide Emissions from Stacks on the Hanford Site, Part 2:	23-0269

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
MONJU	Design and Characteristics of Annulus Ventilation and HVAC System for	22-0791
MPPS	A General Correlation of MPPS Penetration as a Function of Face	24-0698
MWL	Iodine-129 Distribution and Retention During Evaporation of MWL	21-0234
Machines	An Update: DOP Replacement in Testing Machines for Filters and	22-0146
Machines	Safe Replacement Materials for DOP in "Hot Smoke" Aerosol	21-0126
Magnetic	A Permanently Magnetized High Gradient Magnetic Filter for Glove-Box	21-0762
Magnetic	A Novel Permanently Magnetized High Gradient Magnetic Filter Using	23-0158
Magnetized	A Permanently Magnetized High Gradient Magnetic Filter for Glove-Box	21-0762
Magnetized	A Novel Permanently Magnetized High Gradient Magnetic Filter Using	23-0158
Man-Made	Chronic Inhalation Studies of Man-Made Vitreous Fibers	22-0191
Management	DOE Waste Management Program-Current and Future	22-0716
Management	Air Cleaning Technologies for the Management and Disposal of	21-0028
Management	Canadian Waste Management Program	21-0042
Management	IAEA Decadal Activities in the Field of Radioactive Gaseous Waste	21-0635
Management	The Link Between Off-Site-Emergency Planning and Plant-Internal	23-0509
Manifolds	Proposed Retrofit of HEPA Plenums with Injection and Sampling	23-0721
Manifolds	Practical Experience Applied to the Design of Injection and Sample	24-0132
Marcoule	Dissolution Off-Gas Characterization at the Marcoule Pilot Facility: Iodine	22-0053
Mask	New Performance Data for "Emery 3002" and "Emery 3004," Two	23-0743
Masking	Measurement System for Alpha and Beta Aerosols with Wide Dynamic	21-0872
Mass	Predicting Mass Loading as a Function of Pressure Difference Across	22-0554
Mass	Efficiency and Mass Loading Characteristics of a Typical HEPA Filter	21-0782
Material	New Type Adsorbent Material of Impregnated Activated Carbon Fibers for	21-0545
Material	Efficiency and Mass Loading Characteristics of a Typical HEPA Filter	21-0782
Materials	Aerosol Concentrations Produced by a Laskin Nozzle Generator a	21-0109
Materials	Safe Replacement Materials for DOP in "Hot Smoke" Aerosol	21-0126

## 24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Materials	<i>Guide to Sampling Airborne Radioactive Materials in Nuclear Facilities</i>	23-0250
Materials	New Performance Data for "Emery 3002" and "Emery 3004," Two	23-0743
Materials	Removal Efficiency of Silver Impregnated Filter Materials and	24-0609
Mathematical	Mathematical Models for Changes in HEPA Filter Pressure Drop Caused	21-0671
Matters	<i>Developments in the Area of Regulatory Matters in the UK</i>	21-0977
McGuire	Testing of Non-N509 Filter Systems - Audit Experiences at McGuire	21-0329
McGuire	Comments on Testing of Non-N509 Filter Systems - Audit Experiences at	21-0332
McGuire	Design Basis Documentation for the Control Room Ventilation/Chilled	21-0526
Measurement	<i>Measurement of Cesium Emissions During the Vitrification of Simulated</i>	22-0253
Measurement	Retention and Measurement of Iodine-129 and of Organoiodine in the	21-0222
Measurement	Field Measurement of the Performance of Air Cleaning Systems to	21-0435
Measurement	Measurement System for Alpha and Beta Aerosols with Wide Dynamic	21-0872
Measurements	Real-Time Detection of a Fluorescent Aerosol Application to the Efficiency	21-0095
Measurements	Unit Vent Airflow Measurements Using a Tracer Gas Technique	24-0147
Media	The Effects of Temperature on HEPA Filter Media	22-0327
Media	Efficiency and Mass Loading Characteristics of a Typical HEPA Filter	21-0782
Media	Aerosol Penetration Inside HEPA Filtration Media	21-0799
Media	The Effect of Media Area on the Dust Holding Capacity of Deep Pleat	24-0743
Medium	Effects of the Particle Penetration Inside the Filter Medium on the HEPA	21-0128
Melt-Concrete	Beta Experiments on Aerosol Release During Melt-Concrete Interaction	22-0415
Meltdown	Concept for a Passive Heat Removal and Filtration System Under Core	22-0863
Melter	The Integrated Melter Off-Gas Treatment Systems at the West Valley	23-0016
Mercury	LFCM Processing Characteristics of Mercury	21-0442
Metal	Application of High-Efficiency Metal Fiber Filters in Ventilation Systems of	22-0574
Metal	Efficiency Test for Ultra High Efficiency Metal Air Filters	22-0882
Methodology	Potential Radionuclide Emissions from Stacks on the Hanford Site, Part 2:	23-0269

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Methyl	A Simplified Test Procedure for Determining the Effectiveness of	22-0637
Methyl	Parametric Studies of Radioactive Iodine, Hydrogen Iodide and Methyl	22-0646
Methyl	Methyl Iodide Tests on Used Adsorbents	22-0768
Methyl	Factors Affecting the Retention of Methyl Iodide by Iodide-Impregnated	21-0583
Methyl	Kinetic Modelling of the Purging of Activated Carbon After Short Term	21-0662
Methyl	Diffusional Analysis of the Adsorption of Methyl Iodide on Silver	24-0576
Minimization	Steps Towards the Minimization of Particulate Emissions From a	21-0510
Minimizing	Minimizing of Iodine-129 Release in the Karlsruhe Reprocessing Plant	22-0075
Mitigation	Activated Charcoal Beds for Passive Mitigation of the Radioactivity	22-0428
Mixed	Testing Cleanable/Reusable HEPA Prefilters for Mixed Waste Incinerator	24-0076
Mixing	New Injection System for a Short Mixing of Test Aerosols and Gas	21-0080
Mixing	Single Point Aerosol Sampling: Evaluation of Mixing and Probe	23-0217
Model	A General Correlation of MPPS Penetration as a Function of Face	24-0698
Modelling	Kinetic Modelling of the Purging of Activated Carbon After Short Term	21-0662
Modelling	Study on Collecting Efficiency of Fission Products by Spray:	24-0500
Models	Radiological Health Effects Models for Nuclear Power Plant Accident	21-0057
Models	Mathematical Models for Changes in HEPA Filter Pressure Drop Caused	21-0671
Modern	Modern Technology Tools for Improvement of NPP Reliability-Case Study	22-0808
Monitor	Continuous Air Monitor for Alpha-Emitting Aerosol Particles	21-0859
Monitor	Testing the Sampling Efficiency of a Nuclear Power Station Stack Monitor	24-0181
Monitoring	A Real-Time Stack Radioactivity Monitoring System and Dose Projection	23-0259
Monitors	The Influence of Salt Aerosol on Alpha Radiation Detection by WIPP	24-0188
Mordenite	Diffusional Analysis of the Adsorption of Methyl Iodide on Silver	24-0576
Motor	Challenges of Equipment Qualification Using Today's Standards with	23-0034
Multi-Point	Development of Filter Systems - Part 2, Injection Systems and Multi-Point	21-0139
N509	A Review of the History, Revisions and Interrelationships of ANSI/ASME	21-0320

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
N509	Testing of Non-ANSI/ASME N509 Systems to ANSI/ASME N510	21-0327
N509	An Example of a Component Replacement when Applying ASME N509	23-0093
N510	The Difficulty of Testing Non-509 Systems to the N510 Standard	21-0318
N510	A Review of the History, Revisions and Interrelationships of ANSI/ASME	21-0320
N510	Testing of Non-ANSI/ASME N509 Systems to ANSI/ASME N510	21-0327
N510	ASME N510 Test Results for Savannah River Site AACS Filter	23-0068
N510	An Example of a Component Replacement when Applying ASME N509	23-0093
N510	Practical Experience Applied to the Design of Injection and Sample	24-0132
N511-19xx	ASME N511-19xx, Standard for Periodic In-Service Testing of Nuclear Air	24-0264
NATS	Replacement Tracer Agent for the In-Place Leak Testing of Adsorbers in	22-0698
NAUAHYGROS	NAUAHYGROS - A Code for Calculating Aerosol Behavior in Nuclear	23-0520
NESHAPS	Quality Assurance Requirements for NESHAPS Compliance	21-0352
NOx	Iodine and NOx Behavior in the Dissolver Off-Gas and Iodex Systems in	21-0271
NPP	Modern Technology Tools for Improvement of NPP Reliability-Case Study	22-0808
NPP	Modern Technology Tools for Improvement of NPP Reliability-Case Study	22-0808
NRC	Response of NRC Region III to Perceived Lack of Filter Testing Expertise	22-0762
NRC	Changes in Adsorber Testing as a Result of NRC Generic Information	21-0607
NRC	US NRC Regulatory Guidance for Engineered Safety Feature Air	21-0626
NRC's	Changing Winds in NRC's Regulatory Environment	21-0343
NRC's	Bar Coded Air Sample Tracking: How It Can Assist in Compliance with	23-0670
NUREG	Notes on the Draft NUREG Report Accident Source Terms for	22-0734
National	Iodine and NOx Behavior in the Dissolver Off-Gas and Iodex Systems in	21-0271
National	Field Measurement of the Performance of Air Cleaning Systems to	21-0435
Network	Impacts of the Filter Clogging on the Behaviour of a Ventilation Network in	21-0815
Nevada	Field Measurement of the Performance of Air Cleaning Systems to	21-0435
Nitric	Iodine Stripping from Nitric Solutions in IATEMA	22-0091



24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Noble-Gas	Activated Charcoal Beds for Passive Mitigation of the Radioactivity	22-0428
Non-509	The Difficulty of Testing Non-509 Systems to the N510 Standard	21-0318
Non-ANSI/ASME	Testing of Non-ANSI/ASME N509 Systems to ANSI/ASME N510	21-0327
Non-N509	Testing of Non-N509 Filter Systems - Audit Experiences at McGuire	21-0329
Non-N509	Comments on Testing of Non-N509 Filter Systems - Audit Experiences at	21-0332
Non-Reactor	Application of High-Efficiency Metal Fiber Filters in Ventilation Systems of	22-0574
Notes	Notes on the Draft NUREG Report Accident Source Terms for	22-0734
Novel	A Novel Permanently Magnetized High Gradient Magnetic Filter Using	23-0158
Novel	Constant Depression Fan System: A Novel Glovebox Ventilation System	23-0404
Nozzle	Aerosol Concentrations Produced by a Laskin Nozzle Generator a	21-0109
Nozzle	Characteristics of Laskin Nozzle Generated Aerosols	21-0116
Nuclear	Notes on the Draft NUREG Report Accident Source Terms for	22-0734
Nuclear	Proposed Source Term Revisions Potential Impact on Future Nuclear Air	22-0736
Nuclear	The Nuclear Industry's Plan to Achieve New Nuclear Power Plant Orders	22-0018
Nuclear	The Nuclear Industry's Plan to Achieve New Nuclear Power Plant Orders	22-0018
Nuclear	GE's Advanced Nuclear Reactor Designs	22-0043
Nuclear	The Development of Corona Discharge for Iodine Removal from Nuclear	22-0102
Nuclear	A Review of Gas Phase Filtration Standards and their Applicability to	22-0215
Nuclear	Changes to Licensing for U.S. Nuclear Power Plants	22-0341
Nuclear	Revision of Reactor Accident Source Terms and Implications for Nuclear	22-0362
Nuclear	Post-Accident Air Leakage Analysis in a Nuclear Facility via T-Method	22-0374
Nuclear	Code on Nuclear Air and Gas Treatment ASME/ANSI AG-1	22-0485
Nuclear	Filter Sections of ASME AG-1, Code on Nuclear Air and Gas Treatment	22-0491
Nuclear	Radial Flow Systems for the Nuclear Industry	22-0527
Nuclear	Application of High-Efficiency Metal Fiber Filters in Ventilation Systems of	22-0574
Nuclear	Testing of Adsorbents Used in Nuclear Power Plant Air Cleaning Systems	22-0661

## 24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Nuclear	A View of Licensee Event Reports - Relating to Nuclear Air Treatment	22-0899
Nuclear	Radiological Health Effects Models for Nuclear Power Plant Accident	21-0057
Nuclear	Field Testing of Nuclear Air Treatment and Gas Processing Systems	21-0193
Nuclear	European Community Nuclear Codes and Standards	21-0212
Nuclear	Development of a Process for Adsorptive Separation of KR-85 from the	21-0299
Nuclear	Testing of Non-N509 Filter Systems - Audit Experiences at McGuire	21-0329
Nuclear	Comments on Testing of Non-N509 Filter Systems - Audit Experiences at	21-0332
Nuclear	A Systematic Study on the Effectiveness of Mono Alkyl Iodides of Cyclic	21-0394
Nuclear	Adaptation of Nuclear Filtration Technology to the Demilitarization of	21-0419
Nuclear	Technical Brief Stainless Steel Filter for Nuclear Air Cleaning	21-0424
Nuclear	Design Basis Documentation for the Control Room Ventilation/Chilled	21-0526
Nuclear	Demonstration of Carbon-14 Removal at Candu Nuclear Generating	21-0530
Nuclear	Optimization of Air Ducts for Nuclear Reactor Power Generation Station	21-0695
Nuclear	High Efficiency Steel Filters for Nuclear Air Cleaning	21-0733
Nuclear	The Dutch Nuclear Programs	21-0968
Nuclear	Nuclear Air Cleaning Program in USA	21-0969
Nuclear	Nuclear Air Cleaning R&D Programs in Canada	21-0971
Nuclear	Nuclear Air Cleaning Programs in Progress in France	21-0978
Nuclear	Nuclear Air Cleaning Activities in Germany	21-0981
Nuclear	Nuclear Air Cleaning Programs in Hungary	21-0986
Nuclear	An Evaluation of Efforts by Nuclear Power Plants to Use ASTM D3803-89	23-0078
Nuclear	HEPA Filter Testing - Department of Energy Office of Nuclear Energy	23-0087
Nuclear	Integrating Industry Nuclear Codes and Standards into United States	23-0098
Nuclear	Disposal of Slightly Contaminated Radioactive Wastes from Nuclear	23-0138
Nuclear	Single Point Aerosol Sampling: Evaluation of Mixing and Probe	23-0217
Nuclear	Guide to Sampling Airborne Radioactive Materials in Nuclear Facilities	23-0250

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Nuclear	Gas Processing in the Nuclear Industry	23-0294
Nuclear	Application of Nuclear Air Cleaning and Treatment Codes	23-0297
Nuclear	Gas Processing at DOE Nuclear Facilities	23-0301
Nuclear	Calculation Code Evaluating the Confinement of a Nuclear Facility in	23-0412
Nuclear	The Actual Practice of Air Cleaning in Belgian Nuclear Facilities	23-0432
Nuclear	An Introduction to the Design, Commissioning, and Operation of Nuclear	23-0439
Nuclear	An Introduction to the Design, Commissioning, and Operation of Nuclear	23-0439
Nuclear	NAUAHYGROS - A Code for Calculating Aerosol Behavior in Nuclear	23-0520
Nuclear	Keynote Address: Nuclear Aerosols: Unfinished Business	24-0005
Nuclear	Development of an Air Cleaning System for Dissolving High Explosives	24-0089
Nuclear	Testing the Sampling Efficiency of a Nuclear Power Station Stack Monitor	24-0181
Nuclear	ASME N511-19xx, Standard for Periodic In-Service Testing of Nuclear Air	24-0264
Nuclear	International Panel Reports on Nuclear Air and Gas Cleaning Activities	24-0380
Nuclear	Atmospheric Discharges from Nuclear Facilities during Decommissioning:	24-0460
Nuclear	Effects of Welding Fumes on Nuclear Air Cleaning System Carbon	24-0525
Nuclear	Basis for and Practical Methods of Controlling Painting Activities at the	24-0534
Nuclear	Behavior of Iodine in the Dissolution of Spent Nuclear Fuels	24-0550
Nuclear	Extended-Life Nuclear Air Cleaning Filters Via Dynamic Exclusion	24-0788
Nuclear	The First Twenty Years of the ASME Committee on Nuclear Air and Gas	24-0807
Numerical	Numerical Analysis of a Natural Convection Cooling System for	23-0128
Oak	Iodine and NOx Behavior in the Dissolver Off-Gas and Iodex Systems in	21-0271
Objectives	Welcome and Objectives of the Conference	22-0003
Objectives	Welcome and Objectives of the Conference	21-0002
Off-Gas	Dissolution Off-Gas Characterization at the Marcoule Pilot Facility: Iodine	22-0053
Off-Gas	Dissolution Off-Gas Characterization at the Marcoule Pilot Facility: Iodine	22-0053
Off-Gas	Removal of Iodine-129 from Dissolver Off-Gas of Reprocessing Plant by	22-0118

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Off-Gas	Beta Experiments on Aerosol Release During Melt-Concrete Interaction	22-0415
Off-Gas	Behavior of the Loaded Polygonal HEPA Filter Exposed to Water Droplets	22-0534
Off-Gas	Retention and Measurement of Iodine-129 and of Organoiodine in the	21-0222
Off-Gas	Iodine and NO <sub>x</sub> Behavior in the Dissolver Off-Gas and Iodex Systems in	21-0271
Off-Gas	Development of a Process for Adsorptive Separation of KR-85 from the	21-0299
Off-Gas	The Integrated Melter Off-Gas Treatment Systems at the West Valley	23-0016
Off-Gas	The Development and Design of the Off-Gas Treatment System for the	23-0333
Off-Gas	Development of Silver Impregnated Alumina for Iodine Separation from	23-0352
Off-Gases	The Development of Corona Discharge for Iodine Removal from Nuclear	22-0102
Off-Gases	Removal Efficiency of Silver Impregnated Filter Materials and	24-0609
Off-Site-Emergency	The Link Between Off-Site-Emergency Planning and Plant-Internal	23-0509
Offgas	Behavior of the Polygonal HEPA Filter Exposed to Water Droplets Carried	21-0772
Office	HEPA Filter Testing - Department of Energy Office of Nuclear Energy	23-0087
Older	An Example of a Component Replacement when Applying ASME N509	23-0093
Ontario	Experience with Ontario Hydro's In Place Carbon Filter Testing	22-0672
Open-Market	Application of Innovative Policies for Controlling Radionuclide Releases:	24-0040
Operation	Proposed Source Term Revisions Potential Impact on Future Nuclear Air	22-0736
Operation	Behavior and Control of Ruthenium During Operation of the New Waste	21-0467
Operation	A Study of the Effect of Coatings Operation on Radioiodine Removing	21-0563
Operation	An Introduction to the Design, Commissioning, and Operation of Nuclear	23-0439
Operation	Control of Radio-Iodine at the German Reprocessing Plant Wak During	24-0618
Optimization	Optimization of Air Ducts for Nuclear Reactor Power Generation Station	21-0695
Orders	The Nuclear Industry's Plan to Achieve New Nuclear Power Plant Orders	22-0018
Ore	Ventilation System Design for Control of Radioactive Airborne Particulates	23-0784
Organic	Removal Characteristics of Some Organic Iodine Forms by Silver	21-0594
Organoiodine	Retention and Measurement of Iodine-129 and of Organoiodine in the	21-0222

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE  
21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Overview	A Short Overview of the Programs in Sweden	21-0980
Overview	Overview of Divisions I and II	21-0189
Overview	HEPA Filter Concerns - An Overview	23-0150
Oxide	The Development and Design of the Off-Gas Treatment System for the	23-0333
PWR	Containment Venting Sliding Pressure Venting Process for PWR and	21-0876
PWR	Investigations into the Design of a Filter System for PWR Containment	21-0898
Packed	Elimination of Iodine from Radioactive Gaseous Effluents in a Packed	21-0259
Painting	Basis for and Practical Methods of Controlling Painting Activities at the	24-0534
Panel	International Panel Reports on Nuclear Air and Gas Cleaning Activities	24-0380
Panel	Panel Session: Changes to ASME Code AG-1, Section FC, HEPA Filters	24-0850
Parametric	Parametric Studies of Radioactive Iodine, Hydrogen Iodide and Methyl	22-0646
Particle	Aerosol Particle Losses in Sampling Systems	22-0310
Particle	Simulated Performances of a Single Particle Laser Light Scattering	21-0173
Particle	Effects of the Particle Penetration Inside the Filter Medium on the HEPA	21-0128
Particles	Continuous Air Monitor for Alpha-Emitting Aerosol Particles	21-0859
Particles	A Novel Permanently Magnetized High Gradient Magnetic Filter Using	23-0158
Particles	Experimental Study on the Particles Deposition in the Sampling Duct	23-0539
Particles	Development of Real Time Detector for Fluorescent Particles	24-0163
Particulate	Steps Towards the Minimization of Particulate Emissions From a	21-0510
Particulates	Ventilation System Design for Control of Radioactive Airborne Particulates	23-0784
Passive	Activated Charcoal Beds for Passive Mitigation of the Radioactivity	22-0428
Passive	Concept for a Passive Heat Removal and Filtration System Under Core	22-0863
Pattern	Variable Pattern Contamination Control Under Positive Pressure	24-0428
Penetration	High Efficiency and Ultra Low Penetration Aerosol Filter Test Programs by	22-0324
Penetration	Aerosol Penetration Through a Seismically Loaded Shear Wall	22-0402
Penetration	Aerosol Penetration Inside HEPA Filtration Media	21-0799

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Penetration	Effects of the Particle Penetration Inside the Filter Medium on the HEPA	21-0128
Penetration	A General Correlation of MPPS Penetration as a Function of Face	24-0698
Penetrometer	Safe Replacement Materials for DOP in "Hot Smoke" Aerosol	21-0126
Perceived	Response of NRC Region III to Perceived Lack of Filter Testing Expertise	22-0762
Perforated	Experimental Study on the Volatile Ruthenium Decontamination Factor of	22-0244
Performances	Simulated Performances of a Single Particle Laser Light Scattering	21-0173
Periodic	ASME N511-19xx, Standard for Periodic In-Service Testing of Nuclear Air	24-0264
Permanently	A Permanently Magnetized High Gradient Magnetic Filter for Glove-Box	21-0762
Permanently	A Novel Permanently Magnetized High Gradient Magnetic Filter Using	23-0158
Personal	Development of a Personal Computer Code for Fire Protection Analysis of	22-0875
Perspective	A Utility Perspective on New Source Terms	22-0732
Perspective	EPA Perspective on Radionuclide Aerosol Sampling	23-0241
Phase	A Review of Gas Phase Filtration Standards and their Applicability to	22-0215
Phebus	The Phebus FP Integral Source Term Experimental Project with	22-0464
Photochemical	Photochemical Removal of Radioactive Iodine from Air	21-0376
Photometric	A New Method for In-Situ Filter Testing Using Pulses of Aerosol and	22-0154
Pilot	Dissolution Off-Gas Characterization at the Marcoule Pilot Facility: Iodine	22-0053
Planning	The Link Between Off-Site-Emergency Planning and Plant-Internal	23-0509
Plant	The Nuclear Industry's Plan to Achieve New Nuclear Power Plant Orders	22-0018
Plant	Minimizing of Iodine-129 Release in the Karlsruhe Reprocessing Plant	22-0075
Plant	The Development of Corona Discharge for Iodine Removal from Nuclear	22-0102
Plant	Removal of Iodine-129 from Dissolver Off-Gas of Reprocessing Plant by	22-0118
Plant	Testing of Adsorbents Used in Nuclear Power Plant Air Cleaning Systems	22-0661
Plant	Radiological Health Effects Models for Nuclear Power Plant Accident	21-0057
Plant	Retention and Measurement of Iodine-129 and of Organoiodine in the	21-0222
Plant	Behavior and Control of Ruthenium During Operation of the New Waste	21-0467

## 24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Plant	Air Cleaning Programs Relating to the First Japanese Commercial	21-0984
Plant	The Development and Design of the Off-Gas Treatment System for the	23-0333
Plant	An Introduction to the Design, Commissioning, and Operation of Nuclear	23-0439
Plant	NAUAHYGROS - A Code for Calculating Aerosol Behavior in Nuclear	23-0520
Plant	Ventilation System Design for Control of Radioactive Airborne Particulates	23-0784
Plant	Heating, Ventilating, and Air Conditioning Deactivation Thermal Analysis	24-0471
Plant	Basis for and Practical Methods of Controlling Painting Activities at the	24-0534
Plant	Removal Efficiency of Silver Impregnated Filter Materials and	24-0609
Plant	Control of Radio-Iodine at the German Reprocessing Plant Wak During	24-0618
Plant-Internal	The Link Between Off-Site-Emergency Planning and Plant-Internal	23-0509
Plants	Notes on the Draft NUREG Report Accident Source Terms for	22-0734
Plants	Application of ASME Code AG-1 to YGN 3 & 4 Plants, South Korea	22-0223
Plants	Changes to Licensing for U.S. Nuclear Power Plants	22-0341
Plants	Containment Venting Sliding Pressure Venting Process for PWR and	21-0876
Plants	An Evaluation of Efforts by Nuclear Power Plants to Use ASTM D3803-89	23-0078
Plants	Disposal of Slightly Contaminated Radioactive Wastes from Nuclear	23-0138
Plate	Experimental Study on the Volatile Ruthenium Decontamination Factor of	22-0244
Pleat	The Effect of Media Area on the Dust Holding Capacity of Deep Pleat	24-0743
Plenum	Progress Report on the In-Place Acceptance Tests of Walk-In Plenum	21-0360
Plenums	Proposed Retrofit of HEPA Plenums with Injection and Sampling	23-0721
Plenums	Potential for HEPA Filter Damage from Water Spray Systems in Filter	24-0752
Policies	Application of Innovative Policies for Controlling Radionuclide Releases:	24-0040
Pollution	Testing Cleanable/Reusable HEPA Prefilters for Mixed Waste Incinerator	24-0076
Polygonal	Behavior of the Loaded Polygonal HEPA Filter Exposed to Water Droplets	22-0534
Polygonal	Behavior of the Polygonal HEPA Filter Exposed to Water Droplets Carried	21-0772
Pool	Experimental Study on Aerosol Removal Effect by Pool Scrubbing	22-0453

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Pool	Pool Fires in a Large Scale Ventilation System	21-0844
Pool	Experimental Study on Aerosol Removal Efficiency for Pool Scrubbing	21-0918
Portable	Potential Radionuclide Emissions from Stacks on the Hanford Site, Part 2:	23-0269
Post-Accident	Direct Post-Accident Sampling System for Containment Atmospheres	22-0283
Post-Accident	Post-Accident Air Leakage Analysis in a Nuclear Facility via T-Method	22-0374
Potential	Proposed Source Term Revisions Potential Impact on Future Nuclear Air	22-0736
Potential	Potential Radionuclide Emissions from Stacks on the Hanford Site, Part 2:	23-0269
Potential	Potential Radionuclide Emissions from Stacks on the Hanford Site, Part 1:	23-0498
Potential	Potential for HEPA Filter Damage from Water Spray Systems in Filter	24-0752
Power	Notes on the Draft NUREG Report Accident Source Terms for	22-0734
Power	The Nuclear Industry's Plan to Achieve New Nuclear Power Plant Orders	22-0018
Power	Changes to Licensing for U.S. Nuclear Power Plants	22-0341
Power	Testing of Adsorbents Used in Nuclear Power Plant Air Cleaning Systems	22-0661
Power	Radiological Health Effects Models for Nuclear Power Plant Accident	21-0057
Power	Optimization of Air Ducts for Nuclear Reactor Power Generation Station	21-0695
Power	An Evaluation of Efforts by Nuclear Power Plants to Use ASTM D3803-89	23-0078
Power	Disposal of Slightly Contaminated Radioactive Wastes from Nuclear	23-0138
Power	An Introduction to the Design, Commissioning, and Operation of Nuclear	23-0439
Power	NAUAHYGROS - A Code for Calculating Aerosol Behavior in Nuclear	23-0520
Power	Testing the Sampling Efficiency of a Nuclear Power Station Stack Monitor	24-0181
Predict	Development of a Computer Code to Predict a Ventilation Requirement	24-0065
Predicting	Predicting Mass Loading as a Function of Pressure Difference Across	22-0554
Prefilter	Design of a Prefilter to Improve Radiation Protection and Filtering	22-0443
Prefilter/HEPA	Predicting Mass Loading as a Function of Pressure Difference Across	22-0554
Prefilters	Testing Cleanable/Reusable HEPA Prefilters for Mixed Waste Incinerator	24-0076
Prefilters	Extended-Life Nuclear Air Cleaning Filters Via Dynamic Exclusion	24-0788



## 24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Preliminary	Preliminary Field Evaluation of High Efficiency Steel Filters	23-0195
Preliminary	Preliminary Studies to Determine the Shelf Life of HEPA Filters	23-0613
Pressure	Predicting Mass Loading as a Function of Pressure Difference Across	22-0554
Pressure	Mathematical Models for Changes in HEPA Filter Pressure Drop Caused	21-0671
Pressure	Containment Venting Sliding Pressure Venting Process for PWR and	21-0876
Pressure	Effects of the Particle Penetration Inside the Filter Medium on the HEPA	21-0128
Pressure	Effect of Humidity on the Filter Pressure Drop	23-0187
Pressure	A Low Pressure Filter System for New Containment Concepts	23-0478
Pressure	Variable Pattern Contamination Control Under Positive Pressure	24-0428
Pretreatment	Simulation Test of Aerosol Generation from Vessels in the Pretreatment	24-0778
Probe	Single Point Aerosol Sampling: Evaluation of Mixing and Probe	23-0217
Produced	Aerosol Concentrations Produced by a Laskin Nozzle Generator a	21-0109
Products	Study on Collecting Efficiency of Fission Products by Spray:	24-0500
Program-Current	DOE Waste Management Program-Current and Future	22-0716
Programs	High Efficiency and Ultra Low Penetration Aerosol Filter Test Programs by	22-0324
Programs	The Dutch Nuclear Programs	21-0968
Programs	Nuclear Air Cleaning R&D Programs in Canada	21-0971
Programs	United Kingdom Atomic Energy Authority Programs	21-0975
Programs	Nuclear Air Cleaning Programs in Progress in France	21-0978
Programs	A Short Overview of the Programs in Sweden	21-0980
Programs	Air Cleaning Programs Relating to the First Japanese Commercial	21-0984
Programs	Nuclear Air Cleaning Programs in Hungary	21-0986
Progress	Progress Report on the In-Place Acceptance Tests of Walk-In Plenum	21-0360
Progress	Nuclear Air Cleaning Programs in Progress in France	21-0978
Progress	Progress and Challenges in Cleaning Up Hanford	24-0335
Progress	Performance Testing of HEPA Filters: Progress Towards a European	24-0819

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Project	The Phebus FP Integral Source Term Experimental Project with	22-0464
Project	The Integrated Melter Off-Gas Treatment Systems at the West Valley	23-0016
Projection	A Real-Time Stack Radioactivity Monitoring System and Dose Projection	23-0259
Protection	Design of a Prefilter to Improve Radiation Protection and Filtering	22-0443
Protection	Development of a Personal Computer Code for Fire Protection Analysis of	22-0875
Protocols	Control Room Envelope Unfiltered Air Inleakage Test Protocols	24-0400
Prototype	Design and Characteristics of Annulus Ventilation and HVAC System for	22-0791
Pulse	Accuracy Improvement in Leak Detection of Charcoal Adsorbers by	24-0176
Pulses	A New Method for In-Situ Filter Testing Using Pulses of Aerosol and	22-0154
Purex	Heating, Ventilating, and Air Conditioning Deactivation Thermal Analysis	24-0471
Purge	AP600 Containment Purge Radiological Analysis	23-0454
Purging	Kinetic Modelling of the Purging of Activated Carbon After Short Term	21-0662
Qinshan	An Introduction to the Design, Commissioning, and Operation of Nuclear	23-0439
Qualification	Challenges of Equipment Qualification Using Today's Standards with	23-0034
Quality	Quality Assurance Requirements for NESHAPS Compliance	21-0352
Quickmix	Development of the Quickmix Injector for In-Situ Filter Testing	22-0163
R&D	Nuclear Air Cleaning R&D Programs in Canada	21-0971
Radial	Radial Flow Systems for the Nuclear Industry	22-0527
Radiation	Design of a Prefilter to Improve Radiation Protection and Filtering	22-0443
Radiation	The Influence of Salt Aerosol on Alpha Radiation Detection by WIPP	24-0188
Radioactive	Measurement of Cesium Emissions During the Vitrification of Simulated	22-0253
Radioactive	The Experience with the Effectiveness of Filtering Systems for the	22-0393
Radioactive	Parametric Studies of Radioactive Iodine, Hydrogen Iodide and Methyl	22-0646
Radioactive	Air Cleaning Technologies for the Management and Disposal of	21-0028
Radioactive	Elimination of Iodine from Radioactive Gaseous Effluents in a Packed	21-0259
Radioactive	Photochemical Removal of Radioactive Iodine from Air	21-0376

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Radioactive	The Incineration of Low Level Radioactive Wastes - Current Status	21-0488
Radioactive	IAEA Decadal Activities in the Field of Radioactive Gaseous Waste	21-0635
Radioactive	Impact of the Filtered Venting System Design Upon the Total Radioactive	21-0933
Radioactive	Generation and Release of Radioactive Gases in LLW Disposal Facilities	23-0115
Radioactive	Numerical Analysis of a Natural Convection Cooling System for	23-0128
Radioactive	Disposal of Slightly Contaminated Radioactive Wastes from Nuclear	23-0138
Radioactive	Guide to Sampling Airborne Radioactive Materials in Nuclear Facilities	23-0250
Radioactive	Ventilation System Design for Control of Radioactive Airborne Particulates	23-0784
Radioactive	Radioactive Waste Tank Ventilation System Incorporating Tritium Control	24-0051
Radioactive	Development of a Computer Code to Predict a Ventilation Requirement	24-0065
Radioactive	Validation Testing of Radioactive Waste Drum Filter Vents	24-0683
Radioactivity	Activated Charcoal Beds for Passive Mitigation of the Radioactivity	22-0428
Radioactivity	A Real-Time Stack Radioactivity Monitoring System and Dose Projection	23-0259
Radioiodine	A Study of the Effect of Coatings Operation on Radioiodine Removing	21-0563
Radioiodine	Characterization and Restoration of Performance of "Aged" Radioiodine	24-0520
Radioiodine	Control of Radio-Iodine at the German Reprocessing Plant Wak During	24-0618
Radiological	Radiological Health Effects Models for Nuclear Power Plant Accident	21-0057
Radiological	AP600 Containment Purge Radiological Analysis	23-0454
Radionuclide	BARCT: A Conservative Approach to Regulating Radionuclide Emissions	22-0233
Radionuclide	Radionuclide Air Emissions at Department of Energy Facilities	23-0233
Radionuclide	EPA Perspective on Radionuclide Aerosol Sampling	23-0241
Radionuclide	Potential Radionuclide Emissions from Stacks on the Hanford Site, Part 2:	23-0269
Radionuclide	Potential Radionuclide Emissions from Stacks on the Hanford Site, Part 1:	23-0498
Radionuclide	Application of Innovative Policies for Controlling Radionuclide Releases:	24-0040
Reactor	Proposed Source Term Revisions Potential Impact on Future Nuclear Air	22-0736
Reactor	GE's Advanced Nuclear Reactor Designs	22-0043

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Reactor	Revision of Reactor Accident Source Terms and Implications for Nuclear	22-0362
Reactor	Optimization of Air Ducts for Nuclear Reactor Power Generation Station	21-0695
Reactors	Severe Accident Issues for Advanced Reactors	22-0034
Reactors	Air Cleaning Requirements for Evolutionary and Advanced Reactors	21-0016
Reactors	Revised Accident Source Terms for Light-Water Reactors	23-0488
Real-Time	Real-Time Detection of a Fluorescent Aerosol Application to the Efficiency	21-0095
Real-Time	CAIRE - A Real-Time Feedback System for Emergency Response	21-0646
Real-Time	A Real-Time Stack Radioactivity Monitoring System and Dose Projection	23-0259
Real-Time	Development of Real Time Detector for Fluorescent Particles	24-0163
Reclamation	A Thick Homogeneous Vegetated Cover Design Proves Cost- and	24-0118
Reduction	Tritium Emissions Reduction Facility (TERF)	22-0065
Redundant	Progress Report on the In-Place Acceptance Tests of Walk-In Plenum	21-0360
Region	Response of NRC Region III to Perceived Lack of Filter Testing Expertise	22-0762
Regulating	BARCT: A Conservative Approach to Regulating Radionuclide Emissions	22-0233
Regulation	Bar Coded Air Sample Tracking: How It Can Assist in Compliance with	23-0670
Regulatory	Changing Winds in NRC's Regulatory Environment	21-0343
Regulatory	US NRC Regulatory Guidance for Engineered Safety Feature Air	21-0626
Regulatory	Developments in the Area of Regulatory Matters in the UK	21-0977
Release	Minimizing of Iodine-129 Release in the Karlsruhe Reprocessing Plant	22-0075
Release	Beta Experiments on Aerosol Release During Melt-Concrete Interaction	22-0415
Release	Activated Charcoal Beds for Passive Mitigation of the Radioactivity	22-0428
Release	Impact of the Filtered Venting System Design Upon the Total Radioactive	21-0933
Release	Generation and Release of Radioactive Gases in LLW Disposal Facilities	23-0115
Releases	Application of Innovative Policies for Controlling Radionuclide Releases:	24-0040
Reliability-Case	Modern Technology Tools for Improvement of NPP Reliability-Case Study	22-0808
Removing	A Study of the Effect of Coatings Operation on Radioiodine Removing	21-0563

## 24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Removing	Characterization and Restoration of Performance of "Aged" Radioiodine	24-0520
Replace	New Performance Data for "Emery 3002" and "Emery 3004," Two	23-0743
Replacement	An Update: DOP Replacement in Testing Machines for Filters and	22-0146
Replacement	Replacement Tracer Agent for the In-Place Leak Testing of Adsorbers in	22-0698
Replacement	Safe Replacement Materials for DOP in "Hot Smoke" Aerosol	21-0126
Replacement	An Example of a Component Replacement when Applying ASME N509	23-0093
Replacement	Halide Test Agent Replacement Study	23-0313
Reprocessing	Minimizing of Iodine-129 Release in the Karlsruhe Reprocessing Plant	22-0075
Reprocessing	The Development of Corona Discharge for Iodine Removal from Nuclear	22-0102
Reprocessing	Removal of Iodine-129 from Dissolver Off-Gas of Reprocessing Plant by	22-0118
Reprocessing	Retention and Measurement of Iodine-129 and of Organoiodine in the	21-0222
Reprocessing	Air Cleaning Programs Relating to the First Japanese Commercial	21-0984
Reprocessing	The Development and Design of the Off-Gas Treatment System for the	23-0333
Reprocessing	Removal Efficiency of Silver Impregnated Filter Materials and	24-0609
Reprocessing	Control of Radio-Iodine at the German Reprocessing Plant Wak During	24-0618
Reprocessing	Simulation Test of Aerosol Generation from Vessels in the Pretreatment	24-0778
Requirements	Proposed Source Term Revisions Potential Impact on Future Nuclear Air	22-0736
Residence	Residence Time Determination for Adsorbent Beds of Different	23-0308
Resistance	Development and Evaluation of a HEPA Filter for Increased Strength and	22-0617
Resolution	Value-Impact Assessment for Resolution of Generic Safety Issue 143 -	23-0380
Respirators	An Update: DOP Replacement in Testing Machines for Filters and	22-0146
Response	Response of NRC Region III to Perceived Lack of Filter Testing Expertise	22-0762
Response	CAIRE - A Real-Time Feedback System for Emergency Response	21-0646
Responsibility	Clean Air and Clear Responsibility	23-0658
Restoration	Characterization and Restoration of Performance of "Aged" Radioiodine	24-0520
Retention	Retention and Measurement of Iodine-129 and of Organoiodine in the	21-0222

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Retention	Iodine-129 Distribution and Retention During Evaporation of MWL	21-0234
Retention	Factors Affecting the Retention of Methyl Iodide by Iodide-Impregnated	21-0583
Retention	The Retention of Iodine in Stainless Steel Sample Lines	23-0279
Retrofit	Proposed Retrofit of HEPA Plenums with Injection and Sampling	23-0721
Retrospective	The First Twenty Years of the ASME Committee on Nuclear Air and Gas	24-0807
Review	Review of Department of Energy HEPA Filter Test Activities FY 1990 - FY	22-0177
Review	A Review of Gas Phase Filtration Standards and their Applicability to	22-0215
Review	A Review of the History, Revisions and Interrelationships of ANSI/ASME	21-0320
Review	Review of Department of Energy Filter Test Facility and Filter Test Facility	21-0385
Review	Review of In-Place HEPA Filter Testing at Several DOE Facilities	23-0766
Review	A Review of DOE HEPA Filter Component Test Activities: FY-1994	24-0631
Revision	Revision of Reactor Accident Source Terms and Implications for Nuclear	22-0362
Revision	Section TA Acceptance Testing, Draft Revision 03/06/96	24-0203
Revision	ASME N511-19xx, Standard for Periodic In-Service Testing of Nuclear Air	24-0264
Revisions	Proposed Source Term Revisions Potential Impact on Future Nuclear Air	22-0736
Revisions	A Review of the History, Revisions and Interrelationships of ANSI/ASME	21-0320
Revised	The Case for Improved HEPA-Filter Mechanical Performance Standards	24-0829
River	ASME N510 Test Results for Savannah River Site AACS Filter	23-0068
Room	Revised Accident Source Terms and Control Room Habitability	22-0742
Room	Control Room Inleakage Testing Using Tracer Gases at Zion Generating	22-0830
Room	Design Basis Documentation for the Control Room Ventilation/Chilled	21-0526
Room	Control Room Envelope Unfiltered Air Inleakage Test Protocols	24-0400
Rule	Application of Innovative Policies for Controlling Radionuclide Releases:	24-0040
Ruthenium	Experimental Study on the Volatile Ruthenium Decontamination Factor of	22-0244
Ruthenium	Behavior and Control of Ruthenium During Operation of the New Waste	21-0467
Ruthenium	Behavior of Ruthenium in the Case of Shutdown of the Cooling System of	21-0831

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE  
21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
S-3	Field Measurement of the Performance of Air Cleaning Systems to	21-0435
Safe	Safe Replacement Materials for DOP in "Hot Smoke" Aerosol	21-0126
Safe	New Performance Data for "Emery 3002" and "Emery 3004," Two	23-0743
Safety	Heater Selection Criteria for Engineered Safety Features Atmosphere	22-0820
Safety	Department of Energy Directions in Environment, Safety, and Health	21-0005
Safety	US NRC Regulatory Guidance for Engineered Safety Feature Air	21-0626
Safety	Value-Impact Assessment for Resolution of Generic Safety Issue 143 -	23-0380
Salt	Structural Testing of Salt Loaded HEPA Filters for WIPP	22-0262
Salt	Investigation of Salt Loaded HEPA Filters	21-0366
Salt	The Influence of Salt Aerosol on Alpha Radiation Detection by WIPP	24-0188
Sampler	Development of Filter Systems - Part 2, Injection Systems and Multi-Point	21-0139
Sampling	Direct Post-Accident Sampling System for Containment Atmospheres	22-0283
Sampling	Aerosol Particle Losses in Sampling Systems	22-0310
Sampling	Confirmation of Automatic Flow Control for a Gaseous Effluent Sampling	21-0415
Sampling	Single Point Aerosol Sampling: Evaluation of Mixing and Probe	23-0217
Sampling	EPA Perspective on Radionuclide Aerosol Sampling	23-0241
Sampling	Guide to Sampling Airborne Radioactive Materials in Nuclear Facilities	23-0250
Sampling	Experimental Study on the Particles Deposition in the Sampling Duct	23-0539
Sampling	Proposed Retrofit of HEPA Plenums with Injection and Sampling	23-0721
Sampling	Testing the Sampling Efficiency of a Nuclear Power Station Stack Monitor	24-0181
Sand	Design and Full Scale Test of a Sand Bed Filter	21-0946
Savannah	ASME N510 Test Results for Savannah River Site AACS Filter	23-0068
Scale	Technical Scale Iodine Expulsion from the Dissolver Solution and Balance	21-0247
Scale	Pool Fires in a Large Scale Ventilation System	21-0844
Scale	Design and Full Scale Test of a Sand Bed Filter	21-0946
Scanning	Method for HEPA Filter Leak Scanning with Differentiating Aerosol	24-0671

## 24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Scattering	Simulated Performances of a Single Particle Laser Light Scattering	21-0173
Schedule-Effective	A Thick Homogeneous Vegetated Cover Design Proves Cost- and	24-0118
Scrubber	Experimental Study on the Volatile Ruthenium Decontamination Factor of	22-0244
Scrubbing	Experimental Study on Aerosol Removal Effect by Pool Scrubbing	22-0453
Scrubbing	Experimental Study on Aerosol Removal Efficiency for Pool Scrubbing	21-0918
Seismically	Aerosol Penetration Through a Seismically Loaded Shear Wall	22-0402
Selection	Heater Selection Criteria for Engineered Safety Features Atmosphere	22-0820
Selective	The Phebus FP Integral Source Term Experimental Project with	22-0464
Self-Contained	Evaluation of Self-Contained HEPA Filter	23-0054
Sellafield	The Development and Design of the Off-Gas Treatment System for the	23-0333
Separation	Development of a Process for Adsorptive Separation of KR-85 from the	21-0299
Separation	Development of Silver Impregnated Alumina for Iodine Separation from	23-0352
Sequoyah	Basis for and Practical Methods of Controlling Painting Activities at the	24-0534
Series	Progress Report on the In-Place Acceptance Tests of Walk-In Plenum	21-0360
Session	Panel Session: Changes to ASME Code AG-1, Section FC, HEPA Filters	24-0850
Severe	Severe Accident Issues for Advanced Reactors	22-0034
Severe	Activated Charcoal Beds for Passive Mitigation of the Radioactivity	22-0428
Severe	Impact of the Filtered Venting System Design Upon the Total Radioactive	21-0933
Severe	NAUAHYGROS - A Code for Calculating Aerosol Behavior in Nuclear	23-0520
Shear	Aerosol Penetration Through a Seismically Loaded Shear Wall	22-0402
Shelf	Preliminary Studies to Determine the Shelf Life of HEPA Filters	23-0613
Shut	Control of Radio-Iodine at the German Reprocessing Plant Wak During	24-0618
Shutdown	Behavior of Ruthenium in the Case of Shutdown of the Cooling System of	21-0831
Silos	Ventilation System Design for Control of Radioactive Airborne Particulates	23-0784
Silver	Removal of Iodine-129 from Dissolver Off-Gas of Reprocessing Plant by	22-0118
Silver	Removal Characteristics of Some Organic Iodine Forms by Silver	21-0594



24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Silver	Development of Silver Impregnated Alumina for Iodine Separation from	23-0352
Silver	Influences of Impurities on Iodine Removal Efficiency of Silver Alumina	24-0563
Silver	Diffusional Analysis of the Adsorption of Methyl Iodide on Silver	24-0576
Silver	Removal Efficiency of Silver Impregnated Filter Materials and	24-0609
Simulated	Measurement of Cesium Emissions During the Vitrification of Simulated	22-0253
Simulated	Simulated Performances of a Single Particle Laser Light Scattering	21-0173
Simulated	Field Measurement of the Performance of Air Cleaning Systems to	21-0435
Simulation	Post-Accident Air Leakage Analysis in a Nuclear Facility via T-Method	22-0374
Simulation	Simulation Test of Aerosol Generation from Vessels in the Pretreatment	24-0778
Simulations	Filtration Theory Using Computer Simulations	24-0485
Single	Simulated Performances of a Single Particle Laser Light Scattering	21-0173
Single	A Single Standard for In-Place Testing of DOE HEPA Filters	23-0096
Single	Single Point Aerosol Sampling: Evaluation of Mixing and Probe	23-0217
Site	Field Measurement of the Performance of Air Cleaning Systems to	21-0435
Site	ASME N510 Test Results for Savannah River Site AACS Filter	23-0068
Site	Potential Radionuclide Emissions from Stacks on the Hanford Site, Part 2:	23-0269
Site	Potential Radionuclide Emissions from Stacks on the Hanford Site, Part 1:	23-0498
Sites	Air Cleaning Issues with Contaminated Sites	24-0012
Sites	A Thick Homogeneous Vegetated Cover Design Proves Cost- and	24-0118
Sliding	Containment Venting Sliding Pressure Venting Process for PWR and	21-0876
Slightly	Disposal of Slightly Contaminated Radioactive Wastes from Nuclear	23-0138
Smoke	Safe Replacement Materials for DOP in "Hot Smoke" Aerosol	21-0126
Solution	Technical Scale Iodine Expulsion from the Dissolver Solution and Balance	21-0247
Solutions	Iodine Stripping from Nitric Solutions in IATEMA	22-0091
Solutions	Iodine-129 Distribution and Retention During Evaporation of MWL	21-0234
Solutions	A Study on the Expulsion of Iodine from Spent-Fuel Solutions	23-0321

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Source	Notes on the Draft NUREG Report Accident Source Terms for	22-0734
Source	Proposed Source Term Revisions Potential Impact on Future Nuclear Air	22-0736
Source	Revised Accident Source Terms and Control Room Habitability	22-0742
Source	Revision of Reactor Accident Source Terms and Implications for Nuclear	22-0362
Source	The Phebus FP Integral Source Term Experimental Project with	22-0464
Source	A Utility Perspective on New Source Terms	22-0732
Source	Revised Accident Source Terms for Light-Water Reactors	23-0488
Spectroscopy	Potential Radionuclide Emissions from Stacks on the Hanford Site, Part 2:	23-0269
Spent	Behavior of Iodine in the Dissolution of Spent Nuclear Fuels	24-0550
Spent-Fuel	A Study on the Expulsion of Iodine from Spent-Fuel Solutions	23-0321
Spokane	A Thick Homogeneous Vegetated Cover Design Proves Cost- and	24-0118
Sponsors	Opening Comments of Chairman and Greetings from Sponsors	24-0002
Spray	Experimental Study of Elementary Collection Efficiency of Aerosols by	23-0682
Spray	Study on Collecting Efficiency of Fission Products by Spray:	24-0500
Spray	Potential for HEPA Filter Damage from Water Spray Systems in Filter	24-0752
Stack	Single Point Aerosol Sampling: Evaluation of Mixing and Probe	23-0217
Stack	A Real-Time Stack Radioactivity Monitoring System and Dose Projection	23-0259
Stack	Testing the Sampling Efficiency of a Nuclear Power Station Stack Monitor	24-0181
Stacks	Potential Radionuclide Emissions from Stacks on the Hanford Site, Part 2:	23-0269
Stacks	Potential Radionuclide Emissions from Stacks on the Hanford Site, Part 1:	23-0498
Stainless	Technical Brief Stainless Steel Filter for Nuclear Air Cleaning	21-0424
Stainless	The Retention of Iodine in Stainless Steel Sample Lines	23-0279
Standard	The Difficulty of Testing Non-509 Systems to the N510 Standard	21-0318
Standard	A Single Standard for In-Place Testing of DOE HEPA Filters	23-0096
Standard	ASME N511-19xx, Standard for Periodic In-Service Testing of Nuclear Air	24-0264
Standard	Performance Testing of HEPA Filters: Progress Towards a European	24-0819

# 24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

## 21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Standardized	Standardized Methods for In-Place Filter Testing	24-0386
Standards	A Review of Gas Phase Filtration Standards and their Applicability to	22-0215
Standards	Testing of Adsorbents Used in Nuclear Power Plant Air Cleaning Systems	22-0661
Standards	European Community Nuclear Codes and Standards	21-0212
Standards	Challenges of Equipment Qualification Using Today's Standards with	23-0034
Standards	Integrating Industry Nuclear Codes and Standards into United States	23-0098
Standards	The Case for Improved HEPA-Filter Mechanical Performance Standards	24-0829
Statement	Introductory Statement	21-0186
Station	Control Room Inleakage Testing Using Tracer Gases at Zion Generating	22-0830
Station	Testing of Non-N509 Filter Systems - Audit Experiences at McGuire	21-0329
Station	Comments on Testing of Non-N509 Filter Systems - Audit Experiences at	21-0332
Station	Design Basis Documentation for the Control Room Ventilation/Chilled	21-0526
Station	Optimization of Air Ducts for Nuclear Reactor Power Generation Station	21-0695
Station	Testing the Sampling Efficiency of a Nuclear Power Station Stack Monitor	24-0181
Stations	Demonstration of Carbon-14 Removal at Candu Nuclear Generating	21-0530
Status	The Incineration of Low Level Radioactive Wastes - Current Status	21-0488
Steam	Experimental Study on Aerosol Removal Efficiency for Pool Scrubbing	21-0918
Steel	Development and Evaluation of a Cleanable High Efficiency Steel Filter	22-0586
Steel	Technical Brief Stainless Steel Filter for Nuclear Air Cleaning	21-0424
Steel	High Efficiency Steel Filters for Nuclear Air Cleaning	21-0733
Steel	Preliminary Field Evaluation of High Efficiency Steel Filters	23-0195
Steel	The Retention of Iodine in Stainless Steel Sample Lines	23-0279
Steel	Further Development of the Cleanable Steel HEPA Filter and Comparison	24-0708
Steps	Steps Towards the Minimization of Particulate Emissions From a	21-0510
Storage	Behavior of Ruthenium in the Case of Shutdown of the Cooling System of	21-0831
Storage	Numerical Analysis of a Natural Convection Cooling System for	23-0128

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Storage	Development of a Computer Code to Predict a Ventilation Requirement	24-0065
Streams	The Application of HEPA Filter Units in Gas Streams of High Dust	22-0540
Streams	Retention and Measurement of Iodine-129 and of Organoiodine in the	21-0222
Streams	Development of Silver Impregnated Alumina for Iodine Separation from	23-0352
Strength	Development and Evaluation of a HEPA Filter for Increased Strength and	22-0617
Striking	Technical Scale Iodine Expulsion from the Dissolver Solution and Balance	21-0247
Stripping	Iodine Stripping from Nitric Solutions in IATEMA	22-0091
Structural	Structural Testing of Salt Loaded HEPA Filters for WIPP	22-0262
Substitute	Aerosol Concentrations Produced by a Laskin Nozzle Generator a	21-0109
Support	Review of Department of Energy Filter Test Facility and Filter Test Facility	21-0385
Surveillance	Practical Experience Applied to the Design of Injection and Sample	24-0132
Survey	Survey of Life-Cycle Costs of Glass-Paper HEPA Filters	22-0849
Sweden	A Short Overview of the Programs in Sweden	21-0980
System	Direct Post-Accident Sampling System for Containment Atmospheres	22-0283
System	Direct Post-Accident Sampling System for Containment Atmospheres	22-0283
System	Performance Characterization of a New CAM System	22-0299
System	Design of a Prefilter to Improve Radiation Protection and Filtering	22-0443
System	Development of Computer Design System for HVAC System	22-0781
System	Development of Computer Design System for HVAC System	22-0781
System	Design and Characteristics of Annulus Ventilation and HVAC System for	22-0791
System	Concept for a Passive Heat Removal and Filtration System Under Core	22-0863
System	New Injection System for a Short Mixing of Test Aerosols and Gas	21-0080
System	Confirmation of Automatic Flow Control for a Gaseous Effluent Sampling	21-0415
System	Design Basis Documentation for the Control Room Ventilation/Chilled	21-0526
System	CAIRE - A Real-Time Feedback System for Emergency Response	21-0646
System	Behavior of Ruthenium in the Case of Shutdown of the Cooling System of	21-0831

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
System	Pool Fires in a Large Scale Ventilation System	21-0844
System	Measurement System for Alpha and Beta Aerosols with Wide Dynamic	21-0872
System	Investigations into the Design of a Filter System for PWR Containment	21-0898
System	Impact of the Filtered Venting System Design Upon the Total Radioactive	21-0933
System	Numerical Analysis of a Natural Convection Cooling System for	23-0128
System	A Real-Time Stack Radioactivity Monitoring System and Dose Projection	23-0259
System	The Development and Design of the Off-Gas Treatment System for the	23-0333
System	Constant Depression Fan System: A Novel Glovebox Ventilation System	23-0404
System	Constant Depression Fan System: A Novel Glovebox Ventilation System	23-0404
System	A Low Pressure Filter System for New Containment Concepts	23-0478
System	Ventilation System Design for Control of Radioactive Airborne Particulates	23-0784
System	Radioactive Waste Tank Ventilation System Incorporating Tritium Control	24-0051
System	Development of an Air Cleaning System for Dissolving High Explosives	24-0089
System	Effects of Welding Fumes on Nuclear Air Cleaning System Carbon	24-0525
System	Simulation Test of Aerosol Generation from Vessels in the Pretreatment	24-0778
Systematic	A Systematic Study on the Effectiveness of Mono Alkyl Iodides of Cyclic	21-0394
Systems	Aerosol Particle Losses in Sampling Systems	22-0310
Systems	The Experience with the Effectiveness of Filtering Systems for the	22-0393
Systems	Challenges Within Ventilation Systems During Accident Situations	22-0510
Systems	Radial Flow Systems for the Nuclear Industry	22-0527
Systems	Predicting Mass Loading as a Function of Pressure Difference Across	22-0554
Systems	Application of High-Efficiency Metal Fiber Filters in Ventilation Systems of	22-0574
Systems	Testing of Adsorbents Used in Nuclear Power Plant Air Cleaning Systems	22-0661
Systems	Modern Technology Tools for Improvement of NPP Reliability-Case Study	22-0808
Systems	Heater Selection Criteria for Engineered Safety Features Atmosphere	22-0820
Systems	Development of a Personal Computer Code for Fire Protection Analysis of	22-0875

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Systems	A View of Licensee Event Reports - Relating to Nuclear Air Treatment	22-0899
Systems	A View of Licensee Event Reports - Relating to Nuclear Air Treatment	22-0899
Systems	Development of Filter Systems - Part 2, Injection Systems and Multi-Point	21-0139
Systems	Development of Filter Systems - Part 2, Injection Systems and Multi-Point	21-0139
Systems	Field Testing of Nuclear Air Treatment and Gas Processing Systems	21-0193
Systems	AG-1 Division IV, Section TB: Field Testing of Gas Processing Systems	21-0198
Systems	Iodine and NOx Behavior in the Dissolver Off-Gas and Iodex Systems in	21-0271
Systems	The Difficulty of Testing Non-509 Systems to the N510 Standard	21-0318
Systems	Testing of Non-ANSI/ASME N509 Systems to ANSI/ASME N510	21-0327
Systems	Testing of Non-N509 Filter Systems - Audit Experiences at McGuire	21-0329
Systems	Comments on Testing of Non-N509 Filter Systems - Audit Experiences at	21-0332
Systems	Field Measurement of the Performance of Air Cleaning Systems to	21-0435
Systems	US NRC Regulatory Guidance for Engineered Safety Feature Air	21-0626
Systems	The Integrated Melter Off-Gas Treatment Systems at the West Valley	23-0016
Systems	An Example of a Component Replacement when Applying ASME N509	23-0093
Systems	Value-Impact Assessment for Resolution of Generic Safety Issue 143 -	23-0380
Systems	An Introduction to the Design, Commissioning, and Operation of Nuclear	23-0439
Systems	New Challenges to Air/Gas Cleaning Systems	24-0033
Systems	Testing Cleanable/Reusable HEPA Prefilters for Mixed Waste Incinerator	24-0076
Systems	ASME N511-19xx, Standard for Periodic In-Service Testing of Nuclear Air	24-0264
Systems	Potential for HEPA Filter Damage from Water Spray Systems in Filter	24-0752
T-Method	Post-Accident Air Leakage Analysis in a Nuclear Facility via T-Method	22-0374
TB	AG-1 Division IV, Section TB: Field Testing of Gas Processing Systems	21-0198
TERF	Tritium Emissions Reduction Facility (TERF)	22-0065
THORP	The Development and Design of the Off-Gas Treatment System for the	23-0333
Tank	Radioactive Waste Tank Ventilation System Incorporating Tritium Control	24-0051

# 24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

## 21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Tank	Development of a Computer Code to Predict a Ventilation Requirement	24-0065
Tanks	Behavior of Ruthenium in the Case of Shutdown of the Cooling System of	21-0831
Technical	Technical Scale Iodine Expulsion from the Dissolver Solution and Balance	21-0247
Technical	Review of Department of Energy Filter Test Facility and Filter Test Facility	21-0385
Technical	Technical Brief Stainless Steel Filter for Nuclear Air Cleaning	21-0424
Technologies	Air Cleaning Technologies for the Management and Disposal of	21-0028
Technologies	Further Development of the Cleanable Steel HEPA Filter and Comparison	24-0708
Technology	Modern Technology Tools for Improvement of NPP Reliability-Case Study	22-0808
Technology	Adaptation of Nuclear Filtration Technology to the Demilitarization of	21-0419
Temperature	The Effects of Temperature on HEPA Filter Media	22-0327
Temperature	Development and Evaluation of a HEPA Filter for Increased Strength and	22-0617
Temperature	Experimental Study on Aerosol Removal Efficiency for Pool Scrubbing	21-0918
Term	Proposed Source Term Revisions Potential Impact on Future Nuclear Air	22-0736
Term	The Phebus FP Integral Source Term Experimental Project with	22-0464
Term	Kinetic Modelling of the Purging of Activated Carbon After Short Term	21-0662
Terms	Notes on the Draft NUREG Report Accident Source Terms for	22-0734
Terms	Revised Accident Source Terms and Control Room Habitability	22-0742
Terms	Revision of Reactor Accident Source Terms and Implications for Nuclear	22-0362
Terms	A Utility Perspective on New Source Terms	22-0732
Terms	Revised Accident Source Terms for Light-Water Reactors	23-0488
Testing	Section TA Acceptance Testing, Draft Revision 03/06/96	24-0203
Theory	Filtration Theory Using Computer Simulations	24-0485
Thermal	The Development and Design of the Off-Gas Treatment System for the	23-0333
Thermal	Heating, Ventilating, and Air Conditioning Deactivation Thermal Analysis	24-0471
Tools	Modern Technology Tools for Improvement of NPP Reliability-Case Study	22-0808
Tracer	Replacement Tracer Agent for the In-Place Leak Testing of Adsorbers in	22-0698

# 24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

## 21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Tracer	Control Room Inleakage Testing Using Tracer Gases at Zion Generating	22-0830
Tracer	Leak Testing of Bubble-Tight Dampers Using Tracer Gas Techniques	23-0391
Tracer	Unit Vent Airflow Measurements Using a Tracer Gas Technique	24-0147
Tracers	New Injection System for a Short Mixing of Test Aerosols and Gas	21-0080
Tracking	Bar Coded Air Sample Tracking: How It Can Assist in Compliance with	23-0670
Trading	Application of Innovative Policies for Controlling Radionuclide Releases:	24-0040
Transport	Activated Charcoal Beds for Passive Mitigation of the Radioactivity	22-0428
Trapping	Dissolution Off-Gas Characterization at the Marcoule Pilot Facility: Iodine	22-0053
Treatment	ASME N511-19xx, Standard for Periodic In-Service Testing of Nuclear Air	24-0264
Treatment	The First Twenty Years of the ASME Committee on Nuclear Air and Gas	24-0807
Tritiated	Treatment of Tritiated Exhaust Gases at the Tritium Laboratory Karlsruhe	23-0365
Tritium	Tritium Emissions Reduction Facility (TERF)	22-0065
Tritium	Treatment of Tritiated Exhaust Gases at the Tritium Laboratory Karlsruhe	23-0365
Tritium	Radioactive Waste Tank Ventilation System Incorporating Tritium Control	24-0051
Turbulent	Aerosol Deposition In Bends with Turbulent Flow	24-0441
U.S.	Changes to Licensing for U.S. Nuclear Power Plants	22-0341
UK	Developments in the Area of Regulatory Matters in the UK	21-0977
Uncertainty	Uncertainty In-Place Filter Test Results	24-0676
Underground	Development of a Computer Code to Predict a Ventilation Requirement	24-0065
Unfiltered	Control Room Envelope Unfiltered Air Inleakage Test Protocols	24-0400
Unfinished	Keynote Address: Nuclear Aerosols: Unfinished Business	24-0005
Uniformity	Effects of Filter Housing and Ductwork Configuration on Air Flow	22-0205
Units	The Application of HEPA Filter Units in Gas Streams of High Dust	22-0540
Update	An Update: DOP Replacement in Testing Machines for Filters and	22-0146
Update	Radiological Health Effects Models for Nuclear Power Plant Accident	21-0057
Uranium	A Thick Homogeneous Vegetated Cover Design Proves Cost- and	24-0118



24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Utility	A Utility Perspective on New Source Terms	22-0732
Validation	Modern Technology Tools for Improvement of NPP Reliability-Case Study	22-0808
Validation	Validation Testing of Radioactive Waste Drum Filter Vents	24-0683
Value-Impact	Value-Impact Assessment for Resolution of Generic Safety Issue 143 -	23-0380
Variable	Variable Pattern Contamination Control Under Positive Pressure	24-0428
Vegetated	A Thick Homogeneous Vegetated Cover Design Proves Cost- and	24-0118
Velocity	A General Correlation of MPPS Penetration as a Function of Face	24-0698
Vent	Unit Vent Airflow Measurements Using a Tracer Gas Technique	24-0147
Ventilating	A View of Licensee Event Reports - Relating to Nuclear Air Treatment	22-0899
Ventilating	Heating, Ventilating, and Air Conditioning Deactivation Thermal Analysis	24-0471
Ventilation	Challenges Within Ventilation Systems During Accident Situations	22-0510
Ventilation	Application of High-Efficiency Metal Fiber Filters in Ventilation Systems of	22-0574
Ventilation	Design and Characteristics of Annulus Ventilation and HVAC System for	22-0791
Ventilation	New Injection System for a Short Mixing of Test Aerosols and Gas	21-0080
Ventilation	Impacts of the Filter Clogging on the Behaviour of a Ventilation Network in	21-0815
Ventilation	Pool Fires in a Large Scale Ventilation System	21-0844
Ventilation	An Example of a Component Replacement when Applying ASME N509	23-0093
Ventilation	Constant Depression Fan System: A Novel Glovebox Ventilation System	23-0404
Ventilation	Ventilation System Design for Control of Radioactive Airborne Particulates	23-0784
Ventilation	Radioactive Waste Tank Ventilation System Incorporating Tritium Control	24-0051
Ventilation	Development of a Computer Code to Predict a Ventilation Requirement	24-0065
Ventilation	ASME N511-19xx, Standard for Periodic In-Service Testing of Nuclear Air	24-0264
Ventilation/Chilled	Design Basis Documentation for the Control Room Ventilation/Chilled	21-0526
Venting	Effect of Filtering at Containment Venting on the Consequences for the	22-0753
Venting	Design of a Prefilter to Improve Radiation Protection and Filtering	22-0443
Venting	Containment Venting Sliding Pressure Venting Process for PWR and	21-0876

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Venting	Containment Venting Sliding Pressure Venting Process for PWR and	21-0876
Venting	Investigations into the Design of a Filter System for PWR Containment	21-0898
Venting	Impact of the Filtered Venting System Design Upon the Total Radioactive	21-0933
Vents	Validation Testing of Radioactive Waste Drum Filter Vents	24-0683
Vessels	Simulation Test of Aerosol Generation from Vessels in the Pretreatment	24-0778
View	A View of Licensee Event Reports - Relating to Nuclear Air Treatment	22-0899
Vitreous	Chronic Inhalation Studies of Man-Made Vitreous Fibers	22-0191
Vitrification	Measurement of Cesium Emissions During the Vitrification of Simulated	22-0253
Volatile	Experimental Study on the Volatile Ruthenium Decontamination Factor of	22-0244
WAK	Minimizing of Iodine-129 Release in the Karlsruhe Reprocessing Plant	22-0075
WAK	Retention and Measurement of Iodine-129 and of Organoiodine in the	21-0222
WAK	Removal Efficiency of Silver Impregnated Filter Materials and	24-0609
WAK	Control of Radio-Iodine at the German Reprocessing Plant Wak During	24-0618
WIPP	Structural Testing of Salt Loaded HEPA Filters for WIPP	22-0262
WIPP	The Influence of Salt Aerosol on Alpha Radiation Detection by WIPP	24-0188
Wakes	Alternatives to Current Procedures Used to Estimate Concentrations in	21-0714
Walk-In	Progress Report on the In-Place Acceptance Tests of Walk-In Plenum	21-0360
Wall	Aerosol Penetration Through a Seismically Loaded Shear Wall	22-0402
War	Development of an Air Cleaning System for Dissolving High Explosives	24-0089
Waste	Global Change and the Practice for Airborne Waste Treatment	22-0004
Waste	Measurement of Cesium Emissions During the Vitrification of Simulated	22-0253
Waste	DOE Waste Management Program-Current and Future	22-0716
Waste	Canadian Waste Management Program	21-0042
Waste	Behavior and Control of Ruthenium During Operation of the New Waste	21-0467
Waste	Steps Towards the Minimization of Particulate Emissions From a	21-0510
Waste	IAEA Decadal Activities in the Field of Radioactive Gaseous Waste	21-0635

24th DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCE

21-24 DOE/NRC NUCLEAR AIR CLEANING AND TREATMENT CONFERENCES  
KWOC INDEX ON CONFERENCE TITLES

Keyword	Title	Conference No. - Page
Waste	Radioactive Waste Tank Ventilation System Incorporating Tritium Control	24-0051
Waste	Development of a Computer Code to Predict a Ventilation Requirement	24-0065
Waste	Testing Cleanable/Reusable HEPA Prefilters for Mixed Waste Incinerator	24-0076
Waste	Validation Testing of Radioactive Waste Drum Filter Vents	24-0683
Wastes	Air Cleaning Technologies for the Management and Disposal of	21-0028
Wastes	The Incineration of Low Level Radioactive Wastes - Current Status	21-0488
Wastes	Disposal of Slightly Contaminated Radioactive Wastes from Nuclear	23-0138
Water	Behavior of the Loaded Polygonal HEPA Filter Exposed to Water Droplets	22-0534
Water	Design Basis Documentation for the Control Room Ventilation/Chilled	21-0526
Water	Behavior of the Polygonal HEPA Filter Exposed to Water Droplets Carried	21-0772
Water	Value-Impact Assessment for Resolution of Generic Safety Issue 143 -	23-0380
Water	Potential for HEPA Filter Damage from Water Spray Systems in Filter	24-0752
Water-Vapour	Activated Charcoal Beds for Passive Mitigation of the Radioactivity	22-0428
Weapons	Adaptation of Nuclear Filtration Technology to the Demilitarization of	21-0419
Welcome	Welcome and Objectives of the Conference	22-0003
Welcome	Welcome and Objectives of the Conference	21-0002
Welding	Effects on the Efficiency of Activated Carbon on Exposure to Welding	23-0639
Welding	Effects of Welding Fumes on Nuclear Air Cleaning System Carbon	24-0525
West Valley	The Integrated Melter Off-Gas Treatment Systems at the West Valley	23-0016
Winds	Changing Winds in NRC's Regulatory Environment	21-0343
Worst	Field Measurement of the Performance of Air Cleaning Systems to	21-0435
YGN	Application of ASME Code AG-1 to YGN 3 & 4 Plants, South Korea	22-0223
Zion	Control Room Inleakage Testing Using Tracer Gases at Zion Generating	22-0830



## BIBLIOGRAPHIC DATA SHEET

(See instructions on the reverse)

## 1. REPORT NUMBER

(Assigned by NRC, Add Vol., Supp., Rev.,  
and Addendum Numbers, if any.)NUREG/CP-0153  
CONF-960715

## 3. DATE REPORT PUBLISHED

MONTH	YEAR
August	1997

## 4. FIN OR GRANT NUMBER

G6543

## 6. TYPE OF REPORT

Conference Proceeding

## 7. PERIOD COVERED (Inclusive Dates)

## 2. TITLE AND SUBTITLE

Proceedings of the 24th DOE/NRC Nuclear Air Cleaning and  
Treatment ConferenceHeld in Portland, Oregon  
July 15-18, 1996

## 5. AUTHOR(S)

M. W. First, Editor

## 8. PERFORMING ORGANIZATION - NAME AND ADDRESS (If NRC, provide Division, Office or Region, U.S. Nuclear Regulatory Commission, and mailing address; if contractor, provide name and mailing address.)

Harvard School of Public Health  
665 Huntington Avenue  
Boston, MA 02115-6021

## 9. SPONSORING ORGANIZATION - NAME AND ADDRESS (If NRC, type "Same as above"; if contractor, provide NRC Division, Office or Region, U.S. Nuclear Regulatory Commission, and mailing address.)

U.S. Department of Energy  
Washington, DC 20585U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001International Society of Nuclear Air Treatment Technologies, Inc.  
Batavia, OH 45103  
Harvard School of Public Health  
Boston, MA 02115

## 10. SUPPLEMENTARY NOTES

R. Lee, NRC Project Manager

## 11. ABSTRACT (200 words or less)

This report contains the papers presented at the 24th DOE/NRC Nuclear Air Cleaning and Treatment Conference and the associated discussions. Major topics are: (1) nuclear air cleaning issues, (2) waste management, (3) instrumentation and measurement, (4) testing air and gas cleaning systems, (5) progress and challenges in cleaning up Hanford, (6) international nuclear programs, (7) standardized test methods, (8) HVAC, (9) decommissioning, (10) computer modeling applications, (11) iodine treatment, (12) filters, and (13) codes and standards for filters and adsorbers.

## 12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)

Nuclear Air Cleaning  
HEPA Filters  
Activated Carbon  
Aerosols  
Nuclear Waste ManagementNuclear Codes and Standards  
Computer Modeling  
Adsorption  
Radioiodine  
Decontamination and Decommissioning

## 13. AVAILABILITY STATEMENT

unlimited

## 14. SECURITY CLASSIFICATION

(This Page)

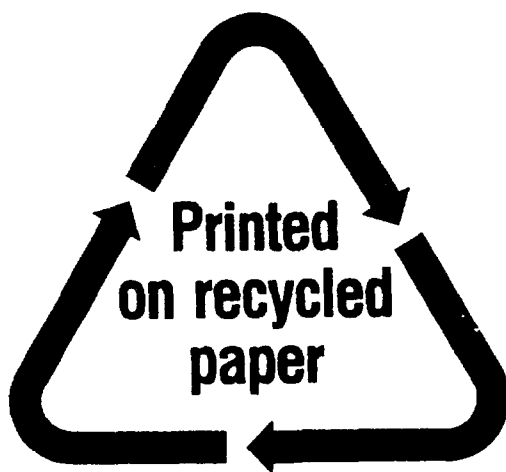
unclassified

(This Report)

unclassified

## 15. NUMBER OF PAGES

## 16. PRICE



Federal Recycling Program