British standards for airborne radioactivity

Searches conducted on the BSI website April 2012 using the following search terms:

This list may not cover **ALL** the relevant standards. If there are omissions / errors, please contact hilary.phillips@npl.co.uk

Search on 'Radioactivity'

BS ISO 11665 Measurement of radioactivity in the environment. Air. Part 1 – 8 Radon (draft for consultation replaces BS IEC 61577?)

BS EN 60761:2004 Equipment for continuous monitoring radioactivity in gaseous effluents. Parts 1-5

BS IEC 61559-1:2009 Radiation protection instrumentation in nuclear facilities. Centralized systems for continuous monitoring of radiation and/or levels of radioactivity. General requirements

BS IEC 60768:2009 Nuclear power plants. Instrumentation important to safety. Equipment for continuous in-line or on-line monitoring of radioactivity in process streams for normal and incident conditions

BS IEC 60951:2009 Parts 1 - 4 Nuclear power plants. Instrumentation important to safety. Radiation monitoring for accident and post-accident conditions. Equipment for continuous off-line monitoring of radioactivity in gaseous effluents and ventilation air

Search on 'Airborne radioactive materials'

BS ISO 2889:2010 Sampling airborne radioactive materials from the stacks and ducts of nuclear facilities

Search on aerosol

BS ISO 11929:2010 Determination of the characteristic limits (decision threshold, detection limit and limits of the confidence interval) for measurements of ionizing radiation. Fundamentals and application

BS IEC 61504:2000 Nuclear power plants. Instrumentation and control systems important to safety. Plant-wide radiation monitoring

BS ISO 29463-2. High-efficiency filters and filter media for removing particles from air. Part 2. Aerosol production, measuring equipment and particle-counting statistics (draft for consultation)

BS ISO 15767:2009 Workplace atmospheres. Controlling and characterizing uncertainty in weighing collected aerosols

BS EN ISO 28439:2011 Workplace atmospheres. Characterization of ultrafine aerosols/nanoaerosols. Determination of the size distribution and number concentration using differential electrical mobility analysing systems

PD CEN/TR 16013:2010 Workplace exposure. Guide for the use of direct-reading instruments for aerosol monitoring. Parts 1 – 2

BS ISO 15900:2009 Determination of particle size distribution. Differential electrical mobility analysis for aerosol particles

PD ISO/TR 27628:2007 Workplace atmospheres. Ultrafine, nanoparticle and nano-structured aerosols. Inhalation exposure characterization and assessment

PD CEN/TR 15230:2005 Workplace atmospheres. Guidance for sampling of inhalable, thoracic and respirable aerosol fractions

BS EN 943:2002 Parts 1 – 2 Protective clothing against liquid and gaseous chemicals, aerosols and solid particles. Performance requirements for ventilated and non-ventilated "gas-tight" (Type 1) and "non-gas-tight" (Type 2) chemical protective suits (Part 1 in draft for consultation)

BS ISO 21501-1:2009 Determination of particle size distribution. Single particle light interaction methods. Light scattering aerosol spectrometer

BS EN 1822:2009 Parts 1 - 3 High efficiency air filters (EPA, HEPA and ULPA). Aerosol production, measuring equipment, particle counting statistics

BS EN ISO 13982-2:2004 Protective clothing for use against solid particulates. Test method of determination of inward leakage of aerosols of fine particles into suits

BS EN 464:1994 Protective clothing. Protection against liquid and gaseous chemicals, including liquid aerosols and solid particles. Test method. Determination of leak-tightness of gas-tight suits (Internal Pressure Test)

BS ISO 29463 Parts 1 - 5. High-efficiency filters and filter media for removing particles from air. (draft for comment)

BS EN ISO 13982-1:2004+A1:2010 Protective clothing for use against solid particulates. Performance requirements for chemical protective clothing providing protection to the full body against airborne solid particulates (type 5 clothing)

PD 6609:2007 Environmental cleanliness in enclosed spaces. Guide to in situ high efficiency filter leak testing

BS EN ISO 29462. Field testing of general ventilation filtration devices and systems for in situ removal efficiency by particle size and resistance to airflow (draft for comment)

BS EN 12941:1998+A2:2008 Respiratory protective devices. Powered filtering devices incorporating a helmet or a hood. Requirements, testing, marking

BS EN 779:2002 Particulate air filters for general ventilation. Determination of the filtration performance (under review)

Search on 'workplace atmospheres'

BS EN 1076:2009 Workplace exposure. Procedures for measuring gases and vapours using pumped samplers. Requirements and test methods

BS EN 481:1993, BS 6069-3.5:1993 Workplace atmospheres. Size fraction definitions for measurement of airborne particles

ISO standards

ISO 7708(1995) air quality – particle size fraction definitions for health-related sampling

ISO 16000-1(2004) indoor air-part 1: General aspects of sampling strategy

IEC Publications

IEC61171 Radiation protection instrumentation – monitoring equipment – atmospheric radioactive iodine in the environment

IEC 61172 Radiation protection instrumentation – monitoring equipment – radioactive aerosols in the environment

IEC 61578 Test methods for the calibration and verification of the effectiveness of radon compensation for alpha and beta aerosol measuring instruments

IEC 62302 Equipment for noble gas monitoring in the workplace, effluents and the environment

IEC 62303 Equipment for monitoring airborne tritium

DIN standards

DIN 25423-1-1999 Sampling procedures for the monitoring of radioactivity in air - Part 1: General requirements

DIN 25423-2-2000 Sampling procedures for the monitoring of radioactivity in air - Part 2 Special requirements for sampling from air ducts and stacks

DIN 25423-3-1987 Sampling procedures for the monitoring of radioactivity in air; sampling methods

DIN 25423 Bb.1-1987 Sampling procedures for the monitoring of radioactivity in air; instructions for the calculation of particle loss in sampling air ducts and instructions on estimates of errors due to anisokinetic sampling

DIN 25441 -1 (1983) Monitoring of radioactivity in the atmosphere of nuclear power plants: safety requirements

DIN 25414-1991 Ventilating systems in nuclear power plants