

Justification Register

Applications & decisions made under Regulations 9, 10 & 12 of the Justification of Practices involving Ionising Radiation Regulations 2004

| Reference Number | Received date | Application Type (Reg 9, 10, 12) | Practice / Class or Type of Practice | Organisation | Address | Decision | Date of Decision | Conditions Applied | Justifying Authority | * Related Documents |
|------------------|---------------|--|---|-----------------|--|---------------------------------------|------------------|--------------------|----------------------|--|
| 01/04 | 02/12/04 | use of x-rays to radiograph suspected smugglers under Reg 12 | | HMC&E | 8th floor, Dorset House, London SE1 9PY | This application has been withdrawn | | | | Internal scanning determination application |
| 02/05 | 18/02/05 | Safety toaster - smoke detector under Reg 9 | Use of ionising radiation in smoke and fire detectors and other safety instruments | Magnetic Design | 10 Bishops Road, Trumpington, Cambridge, CB2 2NH | Determined to be an existing practice | 05/07/05 | | DTI | Safety toaster application and decision docs |
| 03/05 | 17/10/05 | Fluoroscopic screening of concealment of weapons and drugs in secure hospitals under Reg 9 | | Mersey Care NHS | Ashworth Hospital, Maghull, Liverpool, L34 4HW | This application has been withdrawn | | | | Mersey Care NHS Trust application |
| 04/06 | 04/04/06 | Transportation of spent nuclear fuel by road and rail under Reg 10 & 12 | Transport of radioactive material by road and rail in accordance with the regulations concerning carriage of dangerous goods by road (ADR) and rail (RID) | Greenpeace | Canonbury Villas, London, N1 2PN | Determined to be an existing practice | 14/02/07 | | DfT | Application document and decision docs |
| 05/07 | 05/02/07 | Assessment of | Assessment of bone | Bath | University of | This | | | DH | Application |

* These documents are available for inspection on request at the Justification Application Centre (JAC) on telephone number 0300 068 6101

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| | | bone mineral density using DEXA scanners under Reg 9 | mineral density using DEXA scanners | University | Bath, Claverton Down, Bath, BA2 7AY | application has been withdrawn | | | | document |
| 06/07 | 05/02/07 | Assessment of lean muscle and fat content using DEXA scanners under Reg 9 | Assessment of lean muscle and fat content using DEXA scanners | Bath University | University of Bath, Claverton Down, Bath, BA2 7AY | This application has been withdrawn | | | DH | Application document |
| 07/07 | 02/11/07 | Enrichment operations using recycled Uranium under Reg 12 | The enrichment of uranium by use of the centrifuge process | Urenco | Urenco (Capenhurst) Limited, Capenhurst, Chester, CH1 6ER | Determined to be an existing practice | 14/10/08 | | BERR | Application document and decision docs |
| 08/07 | 02/11/07 | Uranium enrichment to higher assays under Reg 12 | The enrichment of uranium by use of the centrifuge process | Urenco | Urenco (Capenhurst) Limited, Capenhurst, Chester, CH1 6ER | Determined to be an existing practice | 14/10/08 | | BERR | Application document and decision docs |
| 09/08 | 04/06/08 | Nuclear New Build under Reg 9 | The generation of electricity from nuclear energy using oxide fuel of low enrichment in fissile content in a light water cooled, light water moderated | Nuclear Industry Association | NIA, Carlton House, 22a St James's Square, London, SW1Y 4JH | Justified Practice under JoPIIRR 2004 | 18/10/10 | | DECC | Application document Part 1 Application document Part 2 |

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| | | | thermal reactor currently known as the EPR designed by AREVA NP | | | | | | | |
| 09/08 | 04/06/08 | Nuclear New Build Under Reg 9 | The generation of electricity from nuclear energy using oxide fuel of low enrichment in fissile content in a light water cooled, light water moderated thermal reactor currently known as the AP1000 designed by Westinghouse Electric Company LLC | Nuclear Industry Association | NIA, Carlton House, 22a St James's Square, London, SW1Y 4JH | Justified Practice under JoPIIRR 2004 | 18/10/10 | | DECC | Application document Part 1, Application document Part 2, Decision Doc, Public enquiry decision, determinations on class or type, JCC minutes (x7) |
| 10/08 | 23/07/08 | Teaching, including further and higher education and training under Reg 12 | Use of Radiological Material for Live Agent Training of at risk groups. | ISSEE | International School for Security and Explosives Education, UK Centre for Homeland Security, Chilmark, SALISBURY, Wiltshire, SP3 5DU | Determined to be an existing practice | 02/02/09 | | DIUS | Application document Part 1, Application document Part 2, Decision Doc, Public enquiry decision, determinations on class or type, JCC minutes (x7) |

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| 11/08 | 01/10/08 | Deconversion of uranium hexafluoride to uranium oxide for long term storage under Reg 9 | Deconversion of uranium hexafluoride to uranium oxide for long term storage | Urenco | Urenco ChemPlants Limited, Capenhurst, Chester, CH1 6ER | Determined to be an existing practice | 16/3/09 | | DECC | Application document |
| 12/09 | 29/08/09 | Detection and analysis under regulation 12 | Use of sealed sources and x-ray generators for analysis | Caliper life sciences inc | 2061 Challenger Drive, Alameda, CA 95401. USA | This application has been withdrawn | | | | Application document |
| 13/09 | 09/09/09 | Security screening under regulation 12 | Use of x-rays or gamma rays to examine vehicle and passenger | Spectrum San Diego Inc | 10907 Technology Place San Diego CA 92127 USA | Determined not to be an existing practice | 16/03/10 | | HO | Application document and decision docs |
| 14/09 | 03/10/09 | Security screening under regulation 12 | Use of backscatter imaging (x-ray) to examine vehicle and passenger | Pitney Bowes | 6 Hurcules Way Leavesden Park Watford WD25 7GS | Determined not to be an existing practice | 16/03/10 | | HO | Application document and decision docs |
| 15/10 | 08/11/10 | Substance , measurement and control under regulation 12 | Use of a sealed source to measure gas flow in smart meters | Sentec | SentecLtd 5 The Westbrook Centre, Milton Road, Cambridge, | Determined not to be an existing practice | 12/10/12 | | DECC | Application document, decision document |

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| | | | | | CB41YG | | | | | |
| 16/10 | 08/12/10 | Use of X-rays to detect smuggled contraband under regulation 12 | Use of full body X-rays to detect smuggled contraband in prisons | HM Prison Service | HMP Holme House, Holme House Road, Stockton on Tees TS18 2QW | | | | | |
| 17/12 | 23/01/12 | Substance , measurement and control under regulation 9 (new class or type of practice | Use of a sealed source to measure gas flow in smart meters | Sentec | Sentec Ltd 5 The Westbrook Centre, Milton Road, Cambridge, CB41YG | | | | DECC | Application document |

Justification Register

Justification decisions that were expressly determined in the UK before the Justification of Practices Involving Ionising Radiation Regulations 2004 came into force on 2 August 2004. Requirement under Regulation 19 that these decisions (dealt with in Regulation 8) appear on the Register

| Reference Number | Practice/Class or Type of Practice | Applicant | Justified | Date of Decision | Decision made by | Conditions & Limitations Attached | Related Documents |
|------------------|---|---|-----------|------------------|---|---|--|
| 1 | Thermal Oxide Reprocessing Plant (THORP) | BNFL plc | Yes | Dec-93 | Secretary of State (SoS) for Environment & MAFF Minister | | 1) Decision by the SoS for the Environment and the Minister of MAFF in respect of an application from BNFL for Authorisations to discharge radioactive wastes from the Sellafield site |
| 2 | Practices at Amersham Cardiff, specifically production of compounds labelled with radioactivity, for use in health care and life sciences and in industry | Amersham International plc and Kodak Clinical Diagnostics Limited | YES | Sep-94 | Chief Inspector of Her Majesty's Inspectorate of Pollution (HMIP) and SoS for Wales | | 1) Explanatory Memorandum for public consultation on authorisations for Amersham Cardiff. HMIP/Welsh Office, September 1994 |
| 3 | Operation of Sizewell B nuclear power station | Nuclear Electric plc | YES | Nov-94 | Chief Inspector of HMIP & MAFF Minister | | 1) HMIP & MAFF, Radioactive Substances Act 1993. 2) Determination of the Application by Nuclear Electric plc to Dispose of Radioactive Waste from the Sizewell B Nuclear Power Station. 2 November 1994 |
| 4 | Radioactive attachments to lightning conductors | | NO | Oct-95 | HMIP | None; programmed disposal of lightning conductors was initiated | 1) HMIP Press release October 1995. 2) Supporting technical and scientific articles can be made available, eg British Standard for Lightning conductors, BS 6651:1990 |
| 5 | AGR and PWR Co Ltd (now British Energy) nuclear power stations | AGR & PWR company Ltd | YES | Feb-96 | Chief Inspector of HMIP and MAFF Minister | | 1) HMIP and MAFF. Radioactive Substances Act 1993. 2) Determination of the Applications by the AGR & PWR company Ltd for Authorisations to dispose of radioactive wastes from the Dungeness B, Hartlepool, Heysham 1, Heysham 2, Hinkley |

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| | | | | | | | Point B and Sizewell B Nuclear Power Stations |
| 6 | Practices at the AEAT facilities at Harwell, Windscale and Winfrith (the practices are not described in detail in the Decision Document) | AEA Technology plc and The Winfrith Technology Centre | YES | May-96 | Environment Agency (EA) | | 1) Environment Agency. Radioactive Substances Act 1993 . 2) Decisions on applications by AEATechnology plc to dispose of radioactive wastes from : 3) The Winfrith Technolgy Centre, Dorceshter, Dorset; 4) Premises on the Harwell Site, Didcot, Oxfordshire; Building 75, Windscale, Cumbria |
| 7 | Operation of the Sellafield Solvent Treatment plant | BNFL plc | YES | Oct-98 | EA, accepted by Defra and MAFF Ministers | | 1) Environment Agency. Document Containing the Agency's Proposed Decisions on the Variations to the Liquid and Gaseous Discharge Authorisations - BNFL plc at Sellafield" . October 1998. |
| 8 | Uranium Commissioning of the Mixed Oxide Fuel (MOX) plant | BNFL plc | Yes | Jun-99 | SoS for Environment, Transport & the Regions and the Minister for Agriculture, Fisheries & Food | Uranium Commissioning only | 1) Hard copies only of the EA's proposed decision. 2) The Minister's final decision can be found online http://www.defra.gov.uk/environment/consult/mox/3.htm |
| 9 | Use of X/Gamma radiation scanners for detecting people | Home Office | Yes | Sep-01 | SoS for the Home Office | | 1) Justification case and Consultation Report for the use of X/Gamma scanners by the Immigration Service. 2) Home Secretary final decision. |
| 10 | Manufacture of Mixed Oxide fuel (MOX) | BNFL plc | Yes | Oct-01 | SoS for Environment, Food & Rural Affairs and S of S for Health | BNFL have undertken that it will not use the SMP for the manufacture of MOX fuel from plutonium | 1) EA's proposed decision, 2) Ministers' final decision and 3) a document containing the main issues raised in the consultation exercises, with Ministers' views on these issues. |

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|------------------|------------------------------------|-----------|-----------|------------------|------------------|---|-------------------|
| | | | | | | other than plutonium separated in THORP and belonging to foreign customers without first seeking clearance from the responsible Secretary of State to proceed | |